Iranian Nuclear Science Bibliography: Open Literature References Compiled by Mark Gorwitz September 2009

Reactor Science

Documents/Reports:

EIR-78	Neutron Flux Measurements in Bent Air Ducts through Water 1965
A. Etemad	
INIS-mf-3150 A. Etemad	Nuclear Fuel for Light Water Reactors 1976
AEOI-NRC-127	Design and Calculation for Construction of a Subcritical Reactor 1982
M.R. Eskandaeri	
TTR Core Conversion	Study of Graphite and Beryllium Oxide Reflector Boxes for the LEU Fuel Core of Tehran Research Reactor 1988
M. Zaker and H. Azimi	
TTR Core Conversion	Low Enriched Uranium Fuel Element for Tehran Research Reactor 1988
M. Zaker	
TTR Core Conversion	Study of Irradiated Fuel Deposit Storage Racks and Fresh Fuel Storage Room of Tehran Research Reactor 1989
M. Zaker and H. Azimi	
TTR Core Conversion	Study of Total Peaking Factor and Xexon and Samarium Poison of Tehran Research Reactor 1989
M. Zaker and H. Azimi	
TTR Core Conversion	Kinetic Parameters and Reactivity Feedback Coefficients of the Tehran Research Reactor 1989
M. Zaker and H. Azimi	
AEOI	Core Configuration Sequence from First Operating LEU Core to the Equilibrium Core of Research Reactor 1993
M. Zaker	
IAEA-TECDOC-1110	Islamic Republic of Iran: BUSHEHR NPP. Preservation and Maintenance. Annex 8 1999
A. Moshfeghian	

IAEA-TECDOC-1110 A. Moshfeghian	Islamic Republic of Iran: BUSHEHR NPP. Preservation and Maintenance. Annex 8A 1999
IAEA-TECDOC-1110	Islamic Republic of Iran: BUSHEHR NPP. Preservation and Maintenance. Annex 8B 1999
A. Moshfeghian	
IAEA-TECDOC-1110	Islamic Republic of Iran: BUSHEHR NPP. Preservation and Maintenance. Annex 8C 1999
A. Moshfeghian	
Technical Report	Album of Neutron and Physical Characteristics of 1 st
Atomic Energy Organization	Loading of Boushehr Nuclear Plantof Iran2003

Thesis:

R. Miri, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, November 1993 Water Chemistry Technology and Control in Nuclear Power Plant VVER Type Reactor

M.D. Sedigh, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, November 1993 Control Room and Instrumentation and Control in Nuclear Power Plants

M. Taymouri, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1993 Pressurized Water Reactor Containment inRussia

M. Behjati Ardakani, Thesis (M.S.), Amirkabir Technical University, Teheran, Iran, February 1994 Multi-Dimensional Core Calculation

M.T. Shabestari, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1994 Turbines of VVER-1000

A.Z. Shahneh, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, March 1995 Steam Generator and Condensor Design of VVER-1000 Type of Nuclear Power Plant

A. Aghayan, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, August 1995
Maintenance of Nuclear Power Plant Equipment (VVER Type) M. Rezvanifard, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, September 1995 Methods of Detection of Failed Fuel Assembly in VVER Type Reactors

M.A. Akhoundi, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995 Operation and Control of Units with VVER-440 Reactor

F. Asgharizadeh, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995 The Application of Gamma-Spectroscopy to Nuclear Power Plant (NPP) and Environment

S.H. Fakhraee, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995 Instrumentation and Control Systems of VVER Reactors

P. Hatami, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995 Computer Code System for VVER Reactor In-Core Fuel Management

A. Montazeri, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995 Operation and Control of Units with VVER-440 (V213) Reactor

A. Movafeghi, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995 Instrumentation and Control in VVER Nuclear Power Plants

A. Sedgh Kerdar, Thesis (M.S.), Amrikabir Technical University, Department of Physics and Nuclear Science, Teheran, Iran, 1999 Investigating Mechanical Behavior and Radiation Resistance of Fuel Rods Clad in a Nuclear Power Plant

M. Roshan Zamir, Thesis (M.S.), Amrikabir Technical University, Department of Physics and Nuclear Science, Teheran, Iran, 2000 Structural Analysis and Modeling of Water Reactor Fuel Rod Behavior

F. Yousefpoor, Thesis (M.S.), Amrikabir Technical University, Department of Physics and Nuclear Science, Teheran, Iran, 2000 Power Distribution Control of Reactor Core in Pressurized Water Reactors by Optimizing Xenon Oscillation and Axial Offset of Power

A. Kazemi, Thesis (M.S.), Amrikabir Technical University, Teheran, Iran, 2000 Investigating Bushehr Reactor Core Parameters Using MCNP Code N. Tajik, Thesis (M.S.), 2000, Guilan University The Study of Nonlinear Dynamics, Effective Parameters on Dynamical Behavior and Stability of Nuclear Fission Reactor Systems

Aisa Sadeghi, Thesis (M.S.), 2003, Guilan University The Study of Hybrid Nuclear Reactors and Concepts of Nuclear Waste Incineration

M. Rashedzadeh, Thesis (M.S.), 2005, Guilan University The Analytical Study of Nuclear Reactor Dynamics, with Incorporating Mechanical and Nuclear Reactor Effects

V. Taherkhani, Thesis (M.S.), 2006, Guilan University The Analytical and Numerical Study of Power in Operation and Safety of Accelerator Drvien Subcritical Nuclear Reactors

B. Khanbabaei, Thesis (M.S.), 2008, Guilan University The Analytical and Numerical Investigation of Heat Transfer Process using Fluid Dynamics Codes in Coolant System of Pressurized Water Reactors

L. Mollasoltani, Thesis (M.S.), 2008, Guilan University The Analytical and Numerical Investigations of Neutronic Behavior of Accelerator Drivewn Subcritical Reactors

Books:

Nuclear Fuel, With Emphasis on its Utilization in Pressurized Water Reactor, September 1997

R. Khazaneh and M. Roshanzamir, Atomic Energy Organization of Iran

Conference Papers:

Proceedings of the International Conference on Peaceful Uses of Nuclear Energy, Geneva, Switzerland, 1964, A. Etemad Penetration of Neutrons in Cylindrical Air Ducts in Diffusing Media

2nd International Conference on Nuclear Data for Reactors, 1970, A. Etemad Fast-Neutron Inelastic Scattering in the Energy Range 2 to 4.5 MeV

Iran Conference on the Transfer of Nuclear Technology, Persepolis/Shiraz, April 10, 1977, M. Taherzadeh Development of the Tehran Nuclear Research Center

American Nuclear Society 1977 Annual Meeting, New York, New York, 1977, R. Solanilla Coarse-Mesh Finite Difference Methods Applied to a Large PWR Core 1987 Winter Meeting of the American Nuclear Society, Los Angeles, CA 1987, A. Pazirandeh Neutronic Analysis of the Conversion of HEU to LEU Fuel for a 5-MW MTR Core

International Meeting on Reduced Enrichment for Research and Test Reactor (RERTR), Berlin, Germany, September 10-3, 1989, M. Abbas-Shirazi and J. Soltan-Mohammadi Heat Transfer Study of LEU Fueled Core

International Meeting on Reactor Physics and Thermal Hydraulics, Brazil, February 26, 1991, M. Zaker Comparison between Fork and Oval Type Control Fuel Elements

International Conference on Nuclear Power Plants Safety and Personnel Training, 1993, Obnisk, Russia, M.R. Eskandari and A. Ghasemizad Safety Studies on Pool-Type Research Reactors

International Nathiagali Summer College on Physics and Contemporary Needs, 1994, Nathiagali, Pakistan, M.R. Eskandari and A. Ghasemizad The Effect of Mean Energy Resonance Time on Fission Reactor Behavior

Annual Physics Society of Iran, Kordestan University, 1994, Sanadaj, Iran, A. Ghasemizad and M.R. Eskandari The Boiling Water Reactor Transfer Function Studies by Non-Linear Dynamical Equations

International Conference on Nuclear Data for Science and Technology, Trieste, Italy, 1997, A. Pazirandeh PWR and VVER Core Parameters Comparison Using WIMS.LIB and WIMKAL88.LIB

Iranian Annual Physics Conference, August 29-September 1, 1998, G.R. Raisali, F. Hasemi and R. Khodadadi Shielding Design Calculation of a 50 MW Research Reactor

The First Conference of the Iranian Society of Civil Engineers, Tehran, Iran, October 20-1, 1999, F.R. Rofooei and M.R. Shabani-Khajal Evaluation of the Performance of the Bushehr Nuclear Power Plant Base Isolation System under Earthquake Excitations

5th International Conference on Civil Engineering, Ferdowsi University, Mashhad, iran, May 8-10, 2000, F.R. Rofooei and M.R. Shabani-Khajal Parametric Study of the Base Isolation System to be used in Dar-Khovin Nuclear Power Plant

Proceedings of the IASTED International Conference on Intelligent Systems and Control, Honolulu, HI, 2000, M.N. Khajavi

Fuzzy Adaptive Robust Optimal Controller for Power Regulation of Nuclear Reactors

Power Systems Technology, Perth, Australia, December 4-7, 2000, M.N. Khajavi, M.B. Menhaj, and A.A. Suratgar

Fuzzy Adaptive Robust Optimal Controller to Increase Load Following Capability of Nuclear Reactors

Annual Physics of Iran, 2001, Training University of Sabzevar, Sabzevar, Iran, A. Ghasemizad and M. Tajik

The Study of Two and Three Dimensional Dynamics of Nuclear Fission Reactors and Effective Parameters on its Behavior

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, Z. Nasr and P. Kaviani Monte Carlo Simulation of the HWZPR Experiment

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, G.R. Raisali and K. Keshtkar Development of SHLDOPT Code for Calculation of Layer Thickness and Dose Distribution through a Nuclear Reactor Shield

International Conference on Nuclear Engineering, ICONE, 2002, April 14-18, 2002, Arlington, Virginia, N. Vosoughi, E.A. Hasan and Z. Naseri Fuzzy Logic Controller Architecture for Water Reactor Level Control in Nuclear Power Plant Steam Generator using ANFIS Training Method

International Conference on Nuclear Option in Countries with Small and Medium Electricity Grid, Dubronik, June 16-20, 2002, *J. Jafari, **F. Maggini, **F. D'Auria, ***H. Kazeminejad and ****H. Davilu Conceptual Design of a Natural Circulation Test Loop Assisted by a System Code *AEOI, Nuclear Research Center, Teheran, Iran *** DIMNP, University of Pisa, Pisa, Italy *** AEOI, Gamma Irradiation Center, Teheran, Iran ****DPNS, University of Amir Kabir, Teheran, Italy

Nuclear Energy for New Europe, Kranjska Gora, Slovenia, September 9-12, 2002, *J. Jafari, **F. D'Auria, ***H. Kazeminejad and ****H. Davilu Analysis of Natural Circulation Performance of the Designed Thermohydraulic Test Loop *AEOI, Nuclear Research Center, Teheran, Iran

**DIMNP, University of Pisa, Pisa, Italy

***AEOI, Gamma Irradiation Center, Teheran, Iran

****DPNS, University of Amir Kabir, Teheran, Italy

Proceedings of INC 02, International Nuclear Conference, Kuala Lumpur, Malaysia, October 15-8, 2002, F. Kazem Uncertainty Analysis for Tehran Research Reactor Upgrading International Conference on Global Environment and Advanced Nuclear Power Plants, 2003, Kyoto, Japan, A. Ghasemizad The Dynamics Study of Intrinsically Safe Pellet Suspension Reactors

Proceedings of the 11th International Conference on Nuclear Engineering, Tokyo, Japan, April 20-3, 2003, F. Kazem

Prediction of the Instability Occurrence during Natural Convection for Tehran Research Reactor

Proceedings of the 11th International Conference on Nuclear Engineering, Tokyo, Japan, April 20-3, 2003, S. Mohsen, S. Mahmoud, B.A. Nouri and A. Ali ICONE11-36341 Ensemble Averaged Two-Phase Flow Numerical Simulation in Vertical Ducts for the Void-Studying Behavior in BWRs

Annual Physics Conference of Iran, August 25-8, 2003, M. Azizi Shamami, H. Ghods, J. Rahighi and J. Dabiri Power Measurements in Tehran Research Reactor Using ¹⁶N Gamma Ray Activity

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, J. Jafari and H. Kazeminejad Development of a Computer Code for Thermohydraulic Analysis of a Heated Channel in Transients

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A. Pazirandeh and B. Alaei

Neutronic Calculation of HWZPR Reactor with WIMS and CITATION Codes and Compressing the Results with Experimental Data

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A.G. Gharib The Importance of Heavy Water in Nuclear Technology

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A.S. Shirani and D. Golmoradi

Comparison in the Design and Thermodynamic Calculation of BNPP Steam Plant with the Previous Design (PWR-1300) and the New Design (VVER-1000) using XEMAc Computer Code

The 11th National Conference of Physicists and Nuclear Science Specialists, 2005, Bushehr Nuclear Power Plant, Bushehr, Iran, A. Ghasemizad and M. Rashedzadeh The Study of Nuclear Fission Reactors Dynamics with Considering of Mechanical and Nuclear Effects

International Conference on Nuclear Technology and Sustainable Development, Tehran, Iran, March 5-6, 2005, Seyed Hossein Hosseini The Status and Progress of the Iranian New Research Reactor (IR40) Nuclear Conference of Iran, 2007, Isfahan University, Isfahan, Iran, V. Taherkhani, A. Ghasemizad and G. Raeisali

The Analytical and Numerical Investigation of Power Balance in Operation and Safety of Accelerator Driven Subcritical Reactors

Nuclear Conference of Iran, 2007, Isfahan University, Isfahan, Iran, Z. Telikani and A. Ghasemizad

The Analytical and Numerical Investigation of Idea of Two-Blanket Fission-Fusion Hybrid Reactor

International Conference on Emerging Nuclear Energy Systems, Instanbul, Turkey, June 3-8, 2007, M.R. Nematollahi Enhancement of Heat Transfer in a Typical Pressurized Water Reactor by Different Mixing Vanes on Spacer Grids

International Conference on Emerging Nuclear Energy Systems, Instanbul, Turkey, June 3-8, 2007, M.R. Nematollahi A Simulation of a Steam Generator Tube Rupture in a VVER-1000 Plant

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, M.H. Tilnoii Nuclear Reactor Control Drive Rod Mechanism with Linear Drive DC Motor

15th International Conference on Nuclear Engineering (ICONE15), Tokyo, Japan, 2007,
N. Mohseni, M. Brorooshaki and M.B. Gofrani
An Approach to Optimal Fuel Core Loading Pattern Design in VVER Nuclear Power
Reactors Using Generic Algorithms

International Conference on Nuclear Energy for New Europe, 2008, Portoz, Portugal, A. Ghasemizad, L. Mollasoltani, M. Shahriari and L. Gholamzadeh The Numerical Investigation of Neutronic Behavior of Accelerator Driven Subcritical Reactors

International Nuclear Conference, Greece, 2008, F. Faghihi Fusion Reactor as Pu Breeder

International Green Energy Conference, Beijing, China, October 19-23, 2008, K. Ansari, H. Sayyaadi, M. Amidpour, A. Saffari and T. Sabzaligoll On Thermodynamic Advantages of Hydrid PWR-Desalination Plants

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malysia, H. Arabnezhad, J, Jafari, M.B. Ghofrani and M. Taherzadeh Simulation of Loss of Flow Accident in TTL-2 Thermal Hydraulic Test Loop using the RELAP5 System Code International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malysia, M. Shirazi and S. Alireza The Effect of Different Mathematical Functional of the Thermal Conductivity on the Temperature Distribution at the Hot Fuel Pin in the Bushehr City Nuclear Power Plant in Iran

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malysia, M. Shirazi, S. Alireza, C. Sadoughi, C. Aghanajafi, N. Shariflou and G. Jahanfarnia Design and Automatically Controller Set for Nuclear Reactor Control Rods

Journal Articles:

Journal of the British Nuclear Energy Society, 1972, Vol. 11, p377-82, A. Pazirandeh Measurement of Fission Ratios in Zero Power Reactors

Kerntechnik, 1974, Vol. 16, p1 and 30, M. Sarram, H. Keshtkar and J. Moghimi Gamma Streaming Problem due to Lining of a Research Reactor Pool with Stainless Steel

Iranian Journal of Science and Technology, 1978, Vol. 7, p147-9, F. Sefidvash A Nuclear Power Reactor Concept for Iran

Desalination, 1978, Vol. 26, p127-40, M. Edalat, J. Entessari and H. Hamidi The Bushehr 200,000 M³/D Desalination Plant

Review of Scientific Instruments, 1979, Vol. 50, p979-82, A. Youssefkhani Automatic Measurement of Temperature in a Nuclear Reactor

Atomkernenergie Kerntechnik, 1980, Vol. 35, p191-5, F. Sefidvash Preliminary Reactor Physics Calculations of a Fluidized Bed Nuclear Reactor Concept

Ho Tzu K'o Hsueh (Nuclear Science Journal), 1982, Vol. 19, p194-200, M. Eskandari Calculation of the Critical Mass for a Pool Type Research Reactor Using Multireflectors

Iranian Atomic Journal, 1985, M.A. Salehi The Space and Time Dependent of Reactivity Input in Reactor Dynamics with Feedback using Finite Element Method

Nuclear Science Journal, 1992, Vol. 29, p81-7, M.R. Eskandari Intrinsic Reactor Safety with Temperature Sensitive Isotope Triggers

Kerntechnik, 1992, Vol. 57, p286-90, A. Paziranden Study on Conversion of the Tehran Research Reactor to Low-Enrichment Fuel Nuclear Technology, 1993, Vol. 103, p187-8, S.M.R. Nejat Preliminary Neutronics Calculations for Conversion of the Tehran Research Reactor Core from HEU to LEU Fuel

Applied Radiation and Isotopes, 1994, Vol. 45, p155-8, M.A.W. Mondal and M. Doroudian Burnup Calculations to Estimate the Effect of Chemical Shim "Boron" on the Production and Depletion of Heavy Isotopes in a PWR

Nuclear Instruments and Methods in Physics Research, Section A, 1996, Vol. 377, p45-7, K. Moghadam Modification of the Neutron Beam Spectrum for Neutron Radiography at Tehran Research Reactor (TRR)

Kerntechnik, 1997, Vol. 62, p249-53, A. Pazirandeh Kinetic Study of the Tehran Research Reactor Core with Low Enriched Fuel

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 15, p31-49, M.K. Rassooly and M.R. Zamir Ceramic Fuel Design and Fabrication Requirements

Nuclear Instruments and Methods in Physics Research, Section A, 1998, Vol. 413, p374-8, H. Khalafi Installation, Calibration and Application of Incore Miniature Neutron Detector in Tehran Research Reactor (TRR)

Journal of Science of the University of Tehran, 1998, Vol. 3, p21-37, A. Pazirandeh Research Reactor Fuel Element Leak Testing Using Delayed Neutron Counting

Annals of Nuclear Energy, 1999, Vol. 26, p1601-10, H. Khalafi Calculational Tools to Conduct Experimental Optimization in Tehran Research Reactor

Nuclear Science Journal, 1999, Vol. 36, p42-50, M.Roshan Zamir Design of the Tehran Research Reactor Spent Fuel Storage

Nuclear Science Reactor, 1999, Vol. 36, p428-33, F. Yousefpour Improvement of the Axial Power Distribution Control Capabilities in VVER-1000 Reactors

Nuclear Engineering and Design, 2000, Vol. 200, p95-105, *G. Karimi and **M. Kawaji Flooding in Vertical Counter-Current Annular Flow *Shiraz University, Shiraz, Iran, work performed while at the Department of Engineering and Applied Chemistry, Toronto, Canada ** Department of Engineering and Applied Chemistry, Toronto, Canada Annals of Nuclear Energy, 2000, Vol. 27, p949-57, F. Yousefpour Improvement of the Axial Power Distribution Control Capabilities in VVER-1000 Reactors

Annals of Nuclear Energy, 2001, Vol. 28, p365-74, M.R. Zamir General Description of KIANA-1 Structure and Its Application for Fuel Rod Behavior

Amirkabir Journal of Engineering, 2001, Vol. 11, G. Heidarinejad Providence and Development of Piping Benchmark Problems to Evaluate and Verify Simflex II Computer Code for Developing and Analyzing Nuclear Power Plant Piping System

Annals of Nuclear Energy, 2002, Vol. 29, p41-51, M. Sadighi, S. Setayeshi and A.A. Salehi PWR Fuel Management Optimization Using Neural Networks

Annals of Nuclear Energy, 2002, Vol. 29, p751-60, M.N. Khajavi, M.B. Menhaj and A.A. Suratgar

A Neural Network Controller for Load Following Operation of Nuclear Reactors

IEEE Transactions on Nuclear Science, 2002, Vol. 49, p1574-78, M. Sadighi, S. Setayeshi and A.A. Salehi Neutron Flux Flattening in PWRs using Neural Networks in Fuel Management

Annals of Nuclear Energy, 2002, Vol. 29, p1225-40, M. Boroushaki, M.B. Ghofrani and C. Lucas

Identification of a Nuclear Reactor Core (VVER) using Recurrent Neural Networks

Annals of Nuclear Energy, 2002, Vol. 29, p1591-96, M. Zaker Effective Delayed Neutron Fraction and Prompt Neutron Lifetime of Tehran Research Reactor

Annals of Nuclear Energy, 2002, Vol. 29, p1989-2000, M.B. Ghofrani and S.A. Damghani Determination of the Safety Importance of Systems of the Tehran Pescareh Pescare

Determination of the Safety Importance of Systems of the Tehran Research Reactor using a PSA Method

Annals of Nuclear Energy, 2003, Vol. 30, p63-80, M. Boroushaki, M.B. Ghofrani, C. Lucas and M.J. Yazdanpanah An Intelligent Nuclear Reactor Core Controller for Load Following Operations, using Recurrent Neural Networks and Fuzzy Systems

Annals of Nuclear Energy, 2003, Vol. 30, p63-80, M. Boroushaki, M.B. Ghofrani, C. Lucas and M.J. Yazdanpanah

An Intelligent Reactor Core Controller for Load Following Operations, Using Recurrent Neural Networks and Fuzzy Systems Annals of Nuclear Energy, 2003, Vol. 30, p739-54, H. Arab-Alibek and S. Setayeshi An Adaptive-Cost-Function Optimal Controller Design for a PWR Nuclear Reactor

Annals of Nuclear Energy, 2003, Vol. 30, p1591-6, M. Zaker Effective Delayed Neutron Fraction and Prompt Neutron Lifetime of Tehran Research Reactor

Journal of Intelligent and Fuzzy Systems, 2003, Vol. 14, p85-93, M. Boroushaki, M.B. Ghofrani and C. Lucas Optimal Fuel Core Loading Pattern Design in PWR Nuclear Power Reactors Using Genetic Algorithms and Fuzzy Nonlinear Programming

IEEE Transactions on Nuclear Science, 2003, Vol. 50, p159-74, M. Boroushaki, M.B. Ghofrani, C. Lucas and M.J. Yazdanpanah Identification and Control of a Nuclear Reactor Core (VVER) Using Reccurent Neutral Networks and Fuzzy Systems

IEEE Transactions on Nuclear Science, 2003, Vol. 50, p211-18, H. Arab-Alibeik and S. Setayeshi Improved Temperature Control of a PWR Nuclear Reactor using an LQG/LTR based Controller

Nuclear Engineering and Design, 2003, Vol. 224, p79-104, J. Jafari, F. D'Auria, H. Kazeminejad and H. Davilu Reliability Evaluation of a Natural Circulation System

Nuclear Engineering and Design, 2004, Vol. 227, p285-300, M. Boroushaki, M.B. Ghofrani, C. Lucas, M.J. Yazdanpanah and N. Sadafi Axial Offset Control of PWR Nuclear Reactor Core Using Intelligent Techniques

Journal of Nuclear Science and Technology, 2004, Vol. 7, p709-14, Mohammad Reza Ansari Effect of Pressure on Two-Phase Stratified Flow Modeling

Nuclear Engineering and Design, 2004, Vol. 229, p25-46, S.K. Mousavian, F. D'Airia and M.A. Salehi Analysis of Natural Circulation Phenomena in VVER-1000

Iranian Journal of Physics Research, 2004, Vol. 4, p13-31, R.I. Najafabadi, R.K. Faegh and H. Afrideh Measurement and Calculation of High Energy Neutron Flux in Aluminum, Graphite, Water and Paraffin Assembly Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 33, p15-20, A. Pazirandeh and H. Poor-Solaimani Study on Feasability of using ⁹⁹Tc as a Burnable Poison Instead of ¹⁰B in Nuclear Fuel Assemblies

Annals of Nuclear Energy, 2005, Vol. 32, p588-605, H. Arab-Alibek and S. Setayeshi Adaptive Control of a PWR Core Power Using Neural Networks

Quality and Reliabality Engineering International, 2005, Vol. 22, p191-7, R. Noorossana and S.J.M. Vaghefi Effect of Autocorrection on Performance of the MCUSUM Control Chart

IEEE Transactions on Nuclear Science, 2005, Vol. 52, p719-28, M. Boroushaki, M.R. Ghofrani and C. Lucas Simulation of Nuclear Reactor Core Kinetics using Mutlilayer 3D Cellular Neural Networks

Journal of Faculty of Engineering, University of Tabriz, 2006, Vol. 32, p21-35, H. Aminfar Heat Transfer Analysis in the Nuclear Reactor Fuel Rod

Nukleonika, 2006, Vol. 51, p161-167, M. Rahgoshay Computation of Concentration Changes of Heavy Metals in the Fuel Assemblies with 1.6% Enrichment by ORIGEN Code for VVER-1000

Annals of Nuclear Energy, 2006, Vol. 33, p252-61, H. Kazeminejad Reactivity Insertion Limits in a Typical Pool-Type Research Reactor Cooled by Natural Circulation

International Journal of Modern Physics E, 2006, Vol. 15, p925-38, K. Hadad and N. Ayobian Fuel Burnup and Fuel Pool Shielding Analysis for Bushehr Nuclear Reactor VVER-1000

International Journal of Modern Physics C, 2006, Vol. 17, p805-15, F. Faghihi and M.R. Nematollahi Nuclear Fuel Depletion Analysis Using MATLAB Software

International Journal of Modern Physics E, 2006, Vol. 15, p925-938, K. hadad and N. Ayobian Fuel Burnup and Fuel Pool Shielding Analysis for Bushehr Nuclear Reactor VVER-1000

Corrosion Science, 2006, Vol. 48, p1404-12, M. Saremi, C. Dehghanian, and M. Mohammadi Sabet

The Effect of Molybdate Concentration and Hydrodynamic Effect on Mild Steel Corrosion Inhibition in Simulated Cooling Water

Nuclear Science and Engineering, 2007, Vol. 155, p119-30, M. Boroushaki, M.R. Ghofrani and C. Lucas A New Approach to Spatio-Temporal Core Calculation of Nuclear Reactors using Neural Computing

Nukleonika, 2007, Vol. 52, p93-96, M. Rahgoshay and Y. Rahmani A Study of the Effects of Changing Burn-Up and Gap Gaseous Compound on the Gap Convection Coefficent (in a hot fuel pin) in VVER-1000 Reactor

Progress in Nuclear Energy, 2007, Vol. 49, p68-78, F. Faghihi, A.H. Fadaie, and R. Sayareh Reactivity Coefficients Simulation of the Iranian VVER-1000 Nuclear Reactor Using WIMS and CITATION Codes

Nuclear Engineering and Design, 2007, Vol. 237, p377-385, N. Vaziri, A. Hojabri, A. Erfani, M. Monsefi and B. Nilforooshan

Crticial Heat Flux Prediction by Radial Basis Function and Multilayer Perception Neural Networks: A Comparison Study

Nuclear Science Engineering, 2007, Vol. 155, p119-30, M. Brooshaki and M.B. Gofrani A New Approach to Spatio-Temporal Calculation of Nuclear Reactor Core Using Neural Computing

Nuclear Engineering and Design, 2007, Vol. 237, p668-76, H. Eliasi, H. Davilu and M.B. Menhaj Adaptive Fuzzy Model Based Predicitve Control of Nuclear Steam Generators

International Journal of Nuclear Knowledge Management, 2007, Vol. 2, p285-98, S.S. Sajjadi, M. Boroushaki, J. Jafari and M.J. Yazdanpanah Identification of a VVER Horizontal Steam Generator using Reccurent Neural Networks

Annals of Nuclear Energy, 2007, Vol. 34, p406-16, K. Hadad and A. Piroozmand Application of Cellular Neural Network (CNN) Method to the Nuclear Reactor Dynamics Equations

Annals of Nuclear Energy, 2007, Vol. 34, p514-20, S.A.H. Feghhi, M. Shahriari and H. Afarideh

Calculation of Neutron Importance Function in Fissionable Assemblies using Monte Carlo Method

Annals of Nuclear Energy, Article in Press, 2007, F. Faghihi, H. Havasi and M. Amim-Mozafari

Plutonium-239 Production Rate Study using a Typical Fusion Reactor

International Journal of Energy, 2008, Vol. 5, p78-96, *K. Hooman, **F. Hooman and ***S.R. Mohebpour

*School of Engineering, The University of Queensland, Brisbane, Australia **Chemical Engineering Facility, Sharif University of Technology, Tehran, Iran ***Mechanical Engineering Department, Persian Gulf University, Bushehr, Iran Entropy Generation for Forced Convection in a Porous Channel with Isoflux or Isothermal Walls

Annals of Nuclear Energy, Article in Press, 2008, S. Mohammad Hadi Hadavi WWER-1000 Shutdown Probalistic Risk Assessment: An Introductory Insight

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p9-18, H. Aminfar, and M.H. Ghafari

Analytical and Numerical Heat Transfer Analysis of Eccentric Fuel Pellets in a Fuel Element of a Nuclear Reactor

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p28-34, A. Pazirandeh and D. Seghati Study of Reactivity Effect on the Dynamic Behavior of VVER-1000 Reactor Core

Annals of Nuclear Energy, 2008, Vol. 35, p269-76, N. Mohseni, M. Boroushaki, M.B. Ghofrani and M.H. Raji Application of Minimum Plutonium Criteria at EOC to Optimize the Fuel Loading Pattern in VVER-1000 Reactors

Journal of Applied Sciences, 2008, Vol. 8, p780-87, B. Khanbabaei, A. Ghasemizad and H. Farajollahi CFD-Calculation of Fluid Flow in VVER-1000 Reactor

Annals of Nuclear Energy, 2008, Vol. 35, p1177-84, K. Farhadi and S. Khakshournia Feasability Study for Tehran Research Reactor Power Upgrading

Reliability Engineering and System Safety, 2008, Vol. 93, p1377-1409, F. Faghihi Level I Probability Safety Assessment of the Iranian Heavy Water Reactor using SAPHIER Software

Annals of Nuclear Energy, 2008, Vol. 35, p1370-2, R. Khoda-Bakhsh, S. Behnia and O. Jahanbakhsh Stability Analysis in Nuclear Reactor Using Lyapunov Exponent

IEEE Transactions on Nuclear Science, 2008, Vol. 55, p1678-85, A. Fakhrazari and M. Boroushaki Adaptiva Critic Pased Neurofuzzy Controller for the Steem Concreter Water Level

Adaptive Critic-Based Neurofuzzy Controller for the Steam Generator Water Level

Progress in Nuclear Energy, 2008, Article in Press, K. Hadad, N. Ayobian and A. Piroozmand Quantitative Accuracy Analysis of Burnup Calculations for BNPP Fuel Assemblies Using FFTBM Method

Progress in Nuclear Energy, 2008, Article in Press, H. Khalafi and M.S. Terman Development of Neural Simulator for Research Reactor Dynamics

Progress in Nuclear Energy, 2008, Article in Press, A.H. Fadaei and S. Setayeshi Control Rod Worth Calculation for VVER-1000 Nuclear Reactor Using WIMS and CITATION Codes

Annals of Nuclear Energy, 2008, Vol. 35, p2019-23, H. Khalafi and F. Rahmani Improving the NAA Laboratory Pneumatic Transfer System for using Tehran Research Reactor

Annals of Nuclear Energy, 2008, Vol. 35, p2051-8, S.S. Khorramabadi, M. Boroushaki and C. Lucas

Emotional Learning Based Intelligent Controller for a PWR Nuclear Reactor Core during Load Following Operation

Progress in Nuclear Energy, 2009, Vol. 51, p644-648, G. Jahanfarnia and S. Tashakor Mathematical Model of Impurities Hide Out and Return in Nuclear Power Plant Steam Generator

Progress in Nuclear Energy, 2009, Vol. 51, p788-798, E. Zarifi, G.R. Jahanfarnia, S.K. Mousavian and F. D'Auria Semi 2D Modeling of the Horizontal Steam Generator PGV-1000 using the RELAP5 Code

Applied Energy, 2009, Vol. 86, p1301-1310, H. Sayyaadi and T. Sabzaligol Various Approaches in Optimization of a Typical Pressurized Water Reactor Power Plant

Nuclear Engineering and Design, 2009, Article in press, F. Faghihi Neutronic Core Design of a 1000 MWe Westinghouse Type Pressurized Water Reactor

Nuclear Engineering and Design, 2009, Article in press, F. Faghihi Burnup Estimation of the Isfehan Miniature Reactor

Nuclear Engineering and Design, 2009, Article in press, F. Faghihi A MATLAB-Linked Solver to Investigate Fuel Depletion in a PWR

Nuclear Safety

Documents/Reports:

NRC-77-44 H. Ghafourian	Determination of Uranium in Urine Samples 1977
NRC-78-53 H. Ghafourian	Investigation of Uranium in Urine Samples 1978
IAEA/R1 48 H. Ghafourian	Determination of U and Pu-239 in Human Urine 1978
Tech. Rept. No. 19 NRC H. Ghafourian	Investigation of Sr-90 and Cs-137 in Biological Samples 1982
Tech. Rept. No. 25 NRC H. Ghafourian	Determination of Tritium in Biological Sample 1983
Tech. Rept. No. 48 NRC H. Ghafourian	Extraction of Radionuclides from Contaminated Blood 1983
Tech. Rept. No. 49 NRC H. Ghafourian	Determination of Transuranium in Biological Sample 1984
VP-CNS, ST/8 H. Gafourian	Standards of Sealed Radioactive Sources 1997
VP-CNS, ST/12 H. Ghafourian	Standards of Safety Transport of Radioactive Material 1998

Thesis:

M. Roshan Zamier, Thesis (M.S.), Amirkabir Technical University, Teheran, Iran, September 1993 Design of a Cask to Store Spent Fuel Rods of the Tehran Research Reactor

F. Langari, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1993 Quality Assurance in Russian Nuclear Power Plants

M. Vaziri, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, August 1995 Safety Design Features of Water-Cooled Water-Moderated Energy Reactors (Russian Design VVERs) A.F. Hashemi, Thesis (M.S.), All-Union Research Institute for Nuclear Power Plant, Moscow, December 1995 Soil and Water Sampling for Measurement of the Radionuclides in the Environment Affected the Accident at the Chernobyl Nuclear Power Station

N. Rastkhah, Thesis (M.S.), All-Union Research Institute for Nuclear Power Plant, Moscow, December 1995 Quality Assurance in Ionizing Radiation Application

M. Azhdari, Thesis (M.S.), 2005, Shiraz University Primary Hazard Analysis for Fuel Fabrication Facility

A.R. Farajollahi, (PhD), An Investigation into the Applications of Polymer Gel Dosimetry in Radiotherapy

K. Adinehvand, (M.S.), Verification Response of MAGICA Gel Dosimeter in Beams Electron with MRI Technique

Conference Papers:

Proceedings of a Symposium on Principles and Standards of Reactor Safety, Julich, Germany, 1973, M. Sarram The Current Design Philosophies for Design and Operation of Nuclear Power Plants

Iran Conference on the Transfer of Nuclear Technology, Persepolis/Shiraz, Iran, 1977, A.E. Placer Transfer of Technology on Radiation Protection and Nuclear Safety

International Symposium on Radiation Physics, Ferrara, Italy, September 30, 1985, M. Sohrabi Discovery of Some Phenomena in Electrochemical Etching of Polymeric Dosimeters

International Conference on Solid State Nuclear Track Detectors, Lahore, Pakistan, 1988, R.B. Akbari

Studies on the Physical Characteristics of the TLD-LiF Dosemeters

International Conference on Solid State Nuclear Track Detectors, Lahore, Pakistan, 1988, A. Khodai-Joopary Chemical Etching of Polyvinylidene Fluoride Films

International Conference on Solid State Nuclear Track Detectors, Lahore, Pakistan, 1988, M. Sohrabi Some Characteristics of the AEOI Passive Radon Diffusion Dosimeter International Conference on Solid State Nuclear Track Detectors, Lahore, Pakistan, 1988, M. Sohrabi Indoor Radon Level Measurements in Some Regions of Iran

International Meeting on Radiation Processing, Noordwijkerhout, Netherlands, April 23-28, 1989, G.R. Raisali, M. Sohrabpour and A. Hadjinia A Computer Code for Dose Rate Mapping of Gamma Irradiators

International Meeting on Reduced Enrichment for Research and Test Reactors (RERTR), Berlin, September 10-3, 1989, M. Abbass-Shirazi, A. Pazirandeh, and J. Soltan-Mohammedi Heat Transfer Study of LEU Fueled Core

International Conference on Solid State Dosimetry, Vienna, Austria, November 6-10, 1989, M. Sohrabi and M. Katouzi Some Characteristics of the AEOI Neutriran Neutron Personnel Dosemeter

Radiation Protection Infrastructure: Proceedings of an International Symposium, Munich, Germany, 1990, M. Sohrabi Radiation Protection Infrastructure in Iran

Proceedings of the ICNC '91. International Conference on Nuclear Criticality Safety, Oxford, UK, 1991, H. Azimi Criticality Calculations of Spent Fuel Storage Racks

International Conference on Nuclear Tracks in Solids, Beijing, China, 1992, R.B. Akbari The Physical Properties of the LiF-Teflon (TL) Dosemeters

Asia and Pacific Basin Regional Conference on Radiation Protection, Beijing, China, 1993, M. Sohrabi Advances on Radiation Protection Dosimetry Research, Development and Services at AEOI

Iranian Annual Physics Conference, Razi University, Kermanshah, Iran, 1993, M. Eskandari and S.Z. Kalanatari Safety Studies on Pool-Type Research Reactors

 3^{rd} International Conference on Nuclear Power Plants Safety, Obninsk, Russia, 1993, M.R. Eskandari, A. Ghasemi and S.Z. Kalantari Evaluation of Depletion Function of any Index k. ≥ 3 for Isotope Transmutation

ICARID 94: International Conference on Applications of Radioisotopes and Radiation in Industrial Development, Bombay, India, 1994, M. Sohrabpour Radiation Processing Activities in the Islamic Republic of Iran: Ten Year Review 17th International Conference on Nuclear Tracks in Solids, Dubna, Russia, 1994, M. Sohrabi

A New Multi-Detector ECE Processing Chamber System for Large-Scale Radon and Neutron Dosimetry

17th International Conference on Nuclear Tracks in Solids, Dubna, Russia, 1994, M. Sohrabi

Determination of ²²⁶Ra in Food Samples by a New Method Using Polycarbonate Detectors

17th International Conference on Nuclear Tracks in Solids, Dubna, Russia, 1994, M. Sohrabi

Introduction of a Novel Track Counting Method by Thermal-Neutron-Induced Activity Measurements of "DYECETs"

Proceedings of the 4th International Conference on High Levels of Background Radiation, Beijing, China, 1996, M. Sohrabi, H. Bolorchi and S. Beitollahi Natural Radioactivity of Soil Sample in the High Level Radiation Areas of Iran

International Conference on Low Doses of Ionizing Radiation: Biological Effects and Regulatory Control, Seville, Spain, 1997 "Low Dose" and/or "High Dose" in Radiation Protection: A Need for Setting Criteria for Dose Classification

IGORR 6, Meeting of the International Group on Research Reactors, Taejon, Korea, April 29 – May 1, 1998, G.R. Ralsall, F. Hashemi and R. Khodadadi Shielding Design Calculation of a 50 MW Research Reactor

Annual Iranian Physics Conference, Kerman, August 29 – September 1, 1998, G. Raisali, F. Hashemi, and R. Khodadadi Shielding Design Calculation of a 50MW Research Reactor

Annual Iranian Physics Conference, Kerman, August 29 – September 1, 1998, N. Banaei, N. Feirpoor, and K.H. Mikhchi Preparation of LiF for Personnel Dosimeter

Proceedings of the 6th Meeting of the International Group on Research Reactors, 1998, Taejon, South Korea, G. Raisali, F. Hashemi, and R. Khodadadi Shielding Design Calculation of a 50MW Research Reactor

The 4th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, Hong Kong, 2000, G. Raisali Uncertainty Analysis of Critical Heat Flux Safety Margin of Tehran Research Reactor Using Monte Carlo Method Annual Iranian Physics Conference, Shahroud, Iran, 2000, R. Khodadadi and G. Raisali Estimate of Total Effective Dose to Members of the Public Due to Airborne Materials Release in the Event of a Severe Accident at the Tehran Research Reactor

Applications of Physics and Nuclear Science in Medicine and Industry, February 2000, AmirKabir University, K. Hadad Current progresses and Issues in Monte Carlo Methods of radiation Dose Calculations

ICENS Nuclear Reactor Workshop, 2001, M. Zaker Operation of Tehran Research Reactor with LEU Fuels

Annual Iranian Physics Conference, Sabzevar, Iran, 2001, A. Heydari, G. Raisali, and M. Shahriari Design of a Shipping Cask of VVER-1000 Spent Fuel Assemblies

International Nuclear Conference 2002: Global Trends and Perspectives, Kuala Lumpur, Malaysia, October 15-8, 2002, M. Sharifzadeh, M. Sohrabpour, R. Gorjifard, and C. Khamoushi Environmental Radiation Monitoring around Nuclear Power Plant Using Thermoluminescence Dosimetry

International Nuclear Conference 2002: Global Trends and Perspectives, Kuala Lumpur, Malaysia, October 15-8, 2002, K. Farhadi Uncertainty Analysis for Tehran Research Reactor Upgrading

Annual Iranian Nuclear Conference, Shahreza Islamic Azad University, Iran, 2002, A.H. Shad, G. Raisali, H. Davilu, and R. Khodadadi Calculation of Total Effective Dose to Members of the Public Due to Airborne Radioactive Material Release in the Event of Loss of Coolant Accident (LOCA) at Bushehr Nuclear Power Plant

Annual Iranian Physics Conference, Zanjan University, Iran, 2002, A.H. Shad, G. Raisali, H. Davilu, R. Khodadadi, and M. Sharif Calculation of Irradiation to Members of the Pulbic Due to Airborne Radioactive Material Release in the Severe Accident at Bushehr Nuclear Power Plant

International Conference Nuclear Energy for New Europe 2003, Portoroz, Slovenia, Spetmber 8-11, 2003, *S.K. Mousavian, **F.D'Auria, **G.M. Galassi, **A. Petruzzi, *M.A. Salehi *Department of Mechanical Engineering, Sharif University, Tehran, Iran **DIMNP, University of Pisa, Pisa, Italy

Unvertainty Analysis of LB-LOCA in VVER-1000 Geometry

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, M.R. Nematollah

Comparison of Interaction Intensity of Molten Metals with Water in Partially Confined and Unconfined States

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, J. Jafari and S. Khakshournia

Loss of Flow Accident Analysis of Primary Cooling System of Power Upgraded Tehran Research Reactor

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, A. Rahimi, N. Mansourshaiflu, M.R. Alziadeh Comparison of Radioactive Doses after the Last Protection Layer Inside the Reactor Structure for Russian VVER-1000 and German PWR-1300 Reactors

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, A.S. Shirani, A. Sedghkerdar, and K. Keshtkar Erection and Installation of Thermal and Biological Shield in BNPP-1

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, K.K. Moghadam and A. Shahidi Feasibility Study of the Biological Shielding of the Tehran Research Reactor, at Power Upgrading up to 10 MW

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, A.S. Shirani, A. Janipour, M. Bohrani, M. Garmsari, K. Keshtkar and A.S. Kerdar

Specification of the Fresh Fuel Transport Containers; Method Transportation and Storage of Fuel in the Bushehr Nuclear Power Plant

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, G.R. Raisli and K. Keshtkar

Development of a Computer Code for Optimization of Nuclear Reactor Shielding Using Non-Linear Programming

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, F. Ziaie, A. Noori, F. Anvari, M. Ghaffari, and V. Ahmadian Investigation of High Dose Irradiation Effects on Polystyrene Calorimeter Response

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, M.H. Hosseini, M.R. Nematollahi, and K. Sepanloo Probalistic Safety Assessment of Tehran Research Reactor Using Systems Analysis Programs for Hands-On Integrated Reliability Evaluations

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, Z. Kheshtpaz and R. Zarghami

Simulation of Small Break LOCA Accident in SPES Facility with RELAP5/MOD3.2 System Code

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, M. Gholampoor and *K.N. Proskouriakow *Moscow Power Engineering Institute, Moscow

Pressure Fluctuations Influence on Thermal-Hydraulics Parameters and Reactivity of VVER-1000

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, H. Saidi

Coating Selection for Contaminate Gaseous System in Isfahan Uranium Conversion Facility Plant

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, S. Mohammadian, E. Khajehejan, and B. Norbakhsh Measurement of Alpha and Beta Activity of Soil and Water Samples around UCF Site up to 80 km

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, B. Nourbaksh, E. Khajeenheian, and S. Mohammadian Measurment of Natural Background Radiation around UCF Site

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, K. Hadad

Nuclear Plant Accident Analysis using a Computer Based Full Scope Primary Loop NSSS Simulation

Proceedings of DOSGEL 2004, Ghent, Belgium, September 13-16, 2004, M. Zahmatkesh, R. Kousari, S. Akhlaghpour and S.A. Bagheri MRI Gel Dosimtery with Methacrylic Acid, Ascorbic Acid, Hydroquinone and Copper in Agarose (MAGICA) Gel

5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23, 2005, A.A. Rohani and A. Shirani

Determination of Gamma Ray Dose around Esfahan Heavy Water Zero Power Reactor (HWZPR)

Nuclear Conference in Iran, Mashad, Iran, February 2006, G.R. Raisali, M.M. Firuzabadi, N. Shayanshakib and A. Haddadi Investigation of Cherenkov Counter Response for Various Height in Stank of Tehran Research Reactor using the MCNP4C and EGS4 Systems of Computer Codes 1st Human, Life and Radiation Conference, Rafsanjan University of Medical Sciences, October 29-31, 2006, E. Torshabi, R. Faghihi, K. Hadad, S. Mehdizadeh, F. Faghihi and S.M.J. Mortazavi

Design and Implementation of a Code to Produce MCNP4C Geomtery Input File from Tomagraphy Images using MATLAB Software

Australian Institute of Physics 17th National Congress, 2006, A.R. Vejdani Noghreeyana, R. Koohi-Fayegh and H.M. Hakimabad Gamma Shielding Design Studies for Am-Be and Californium Neutron Sources

Second International Conference World of Construction Project Management, 2007, A. Rashidi, H. Rajaie and A. Hazrati

Optimized Allocation of Equipment for Earthwork Projects According to Cost and Time Criteria

Universitas Pelita Harapan, Indonesia, September 26-27, 2007, A. Hemmati, A. Rashidi and S. Hemmati Applications of IT in Different Stages of Infrastructure Projects in Iran

Nuclear Science Sympsoium, Honolulu, HI, October 26 – November 3, 2007, M.R. Ghadiri, P. Ghafrain, S. Sarkar and H. Zaidi

The Influence of Energy Indexing Algorithm and Electron Substeps on MCNP4C Electron Transport: Application in Monte Carlo Simulation of s-Ray Spectra in Diagnostic Radiology and Mammagraphy

Nuclear Science Sympsoium, Honolulu, HI, October 26 – November 3, 2007, P. Ghafarain, S. Sarkar, H. Ghadiri and H. Zaidi Impact of X-Ray Tube Voltage, Field Size and Object Thickness on Scattered Radiation Distribution in Diagnostic Radiology: A Monte Carlo Investigation

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, A.R. Vejdani Gamma Shielding Studies for Am-Be and Californium Neutron Sources

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, A.R. Vejdani

Evaluation of the Nonlinear Response Function of a NaI Scintillation Detector for PGNAA Applications

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, H. Panjeh

Improving the Performance of ²⁴¹Am-Be for PGNAA Applications using a Proper Shielding for Neutron Source and the NaI Scintillation Detector ICENES, 2007, A. Aminian, M.R. Nematollahi, K. Haddad and S. Mehdizadeh Determination of Shielding Parameters for Different Types of Concretes by Monte Carlo Methods

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malysia, A. Shahnavaz, T. Bayat, A. Attarzadeh, D. Gheysary, F. Bouzarjomehri and N. Abdoly Investigation of ⁶⁰Co Gamma-rays Attenuation Properties in Baryte Concrete

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malysia, H.R. Pakoyan, F. Asgharizadeh, M. Ghannadi Maragheh, M. Khayatzadeh Mahani and B. Salami Radiochemical Determination of Strontium-90 in Soil Sample from the Central Area of Iran, by Cerenkov Counting

Journal Articles:

Nuclear Science and Engineering, 1971, Vol. 46, p1-11, A. Razani A Three-Dimensional Stochastic Gamma-Ray Transport Method for Shielding Calculations

Atomkernenergie, 1973, Vol. 22, p67-8, M.R. Hamadian Gamma Dosimetry in the Tehran University Research Reactor Core

Quarterly Bulletin of the Facility of Science, Tehran University, 1973, Vol. 5, p89-91, M. R. Hamadian Gamma Dosimetry in the Tehran University Research Reactor Core

Kerntechnik, 1974, Vol. 16, p198-200, Y.M. Nobar, D. Moghimi and Z. Berzezinski A New Solid-State Safety Amplifier for Reactor Control

Nuclear Engineering and Design, 1978, Vol. 50, p323-5, M. Shahinpoor Estimates on the Seismic Amplification Factors of Reactor Components

Nuclear Instruments and Methods, 1978, Vol. 157, p601-6, D. Azimi-Garakani Calculation of the Radioactive Releases from the Iran-1 and Iran-2 Nuclear Power Plants

Nuclear Instruments and Methods, 1979, Vol. 165, p135-8, M. Sohrabi A New Dual Response Albedo Neutron Personnel Dosimeter

Applied Physics, 1981, Vol. 25, p337-45, A. Aframian Gamma-Ray (and Electron) Induced Annealing of Nuclear Tracks in Polymeric Detectors

Nuclear Engineering and Design, 1982, Vol. 72, p309-20, A.H. Yousafzal Deterministic and Stochastic Earthquake Response Analysis of the Containment Shell of a Nuclear Power Plant Radiation Effects, 1983, Vol. 71, p125-36, A. Aframian Annealing Parameters and Rate Controlling Factors Affecting Particle Tracks in Dielectrics

Nuclear Tracks, 1983, Vol. 7, p121-8, D. Azimi-Garakani and M. Bagheri-Darbandi ²³⁵U:²³⁸U Fission-Ratio Measurements in a Fast-Neutron Field

Nucleus, 1983, Vol. 20, p65-73, M. Sohrabi Advances in Solid State Nuclear Track Personnel Neutron Dosimeters

Nuclear Science Journal, 1983, Vol. 20, p78-81, H. Ghafourian Determination of ⁹⁰Sr and ¹³⁷Cs in Urine Samples

International Journal of Environmental Studies, 1983, Vol. 21, p309-16, H. Ghafourian Determination of Heavy Elements in Blood Samples

Radiation Protection Dosimetry, 1985, Vol. 12, p55-9, M. Sohrabi A New Multi-Chamber Electrochemical Etching System Approach for Rapid Characteristic Response Studies in Polymeric Dosemeters

Nuclear Instruments and Methods in Physics Research, Section A, 1985, Vol. A238, p517-23, M. Sohrabi Discovery of an 'Internal Heating Effect' During Electrochemical Etching of Polymeric Dosimeters

Scientific Bulletin of the Atomic Energy Organization of Iran, 1988, Vol. 8, p29-44, M. Khoshnoodi

The Calibration of Neutron Detectors Equipped with Spherical Moderators

International Journal of Radiation Applications and Instrumentation: Part C. Radiation Physics and Chemistry, 1988, Vol. 31, p435-40, *M. Sohrabpour, **P.H.G. Sharpe and **J.H. Barrett

*Gamma Irradiation Center, Atomic Energy Organization of Iran, Tehran, Iran **National Physical Laboratory, Teddington Middlesex, UK Dose and Temperature Response of "Opti-Chromic" Dosimeters

Radiation Protection Dosimetry, 1990, Vol. 34, p5-8, M. Sohrabi A New Development of Dyed ECE Tracks for Radiation Dosimetry

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p9-10, H. Afarideh Low Energy Protons and Deutrons Track Registration in CN85 SSNT Detector

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p421-2, M. Sohrabi Efficient Detection and Spectrometry of Alphas from Radon Daughters in Polycarbonate Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p537-40, M. Sohrabi Design Characteristics of a Three-Component AEOI Albedo Neutron Personnel Dosimeter

Radiation Protection Dosimetry, 1992, Vol. 44, p121-4, M. Khoshnoodi The Application of a New Geometry Correction Function for the Calibration of Neutron Spherical Measuring Devices Using Large Volume Neutron Sources

Scientific Bulletin of the Atomic Energy Organization of Iran, 1993, Vol. 11-12, p75-83, A.A. Bidokhtti A Numerical Model of Heavy Gas Dispersion

Radiation Protection Dosimetry, 1993, Vol. 48, p279-83, M. Sohrabi A New Triplet Electrochemical Etching (TECE) Method

Radiation Measurements, 1994, Vol. 23, p235-7, M. Faghih-Habibi Response on the CN-85 SSNT Detector to Low-Energy Protons and Deutrons

Radiation Physics and Chemistry, 1993, Vol. 42, p523-7, M. Jalili and A. Mohammadi Gamma Ray Attneuation Coefficient for Neutron-Absorbent Materials

Radiation Physics and Chemistry, 1993, Vol. 42, p799-805, G.R. Raisali and M. Sohrabpour Application of EGS4 Computer Code for the Determination of Gamma Ray Sprectrum and Dose rate Distribution in Gammacell 220

Radiation Protection Dosimetry, 1997, Vol. 70, p357-60, M. Khoshnoodi A New Expression for Determination of Fluences from a Spherical Moderator Neutron Source for the Calibration of Spherical Neutron Measuring Devices

Journal of Science of the University of Tehran, 1998, Vol. 3, p21-37, A. Pazirandeh, A.A. Soltanieh, N. Rahimian, and M. Gharib Research Reactor Fuel Element Leak Testing Using Delayed Neutron Counting

Radiation Measurements, 1999, Vol. 31, p115-20, M. Sohrabi New Developments on Electrochemical Etching Processes at the Atomic Energy Organization of Iran

Journal of the Iran University of Medical Science, 1999, Vol. 3, p117-121, M.T. Bahrayni and M.H. Oroji Survey of the Environmental Gamma Radiation in Marshad City

Radiation Measurements, 1999, Vol. 31, p153-6, M. Sohrabi and G. Zainali A New Versatile Electrochemical Etching Chamber System for Multi-Size and Multi-Shape Detector Processing Applied Radiation and Isotopes, 1999, Vol. 50, p805-10, M. Sohrabpour, M. Shahriari, V. Zarifian, and K.K. Moghadam Borehole Prompt Gamma Neutron Activation and Comparison with Monte Carlo Simulation using MCNP Code: Borehole PGNAA Experiment Comparison with MCNP

Annali di Geofisica, 1999, Vol. 42, p1013-21, B. Tavakoli Seismic Hazard Assessment in Iran

Journal of the Iran University of Medical Science, 2000, Vol. 3, p1-7, M.T. Bahrayni and A. Sadeghzadeh Evaluation of the Environmental Gamma Radiation in Azarbaeijan

Applied Radiation and Isotopes, 2000, Vol. 52, p127-35, M. Shahriari and M. Sohrabpour Borehole Parametric Study for Neutron Induced Capture Gamma-Ray Spectroscopy Using the MCNP Code

Applied Radiation and Isotopes, 2001, Vol. 55, p189-195, M. Ghiassi-Nejad, M. Jafarizadeh, M.R. Ahmadian-Pour and A.R. Ghahramani Dosimetric Characteristics of ¹⁹²Ir Sources used in Interstitial Brachytherapy

Applied Radiation and Isotopes, 2002, Vol. 57, p537-42, M. Sohrabpour, M. Hassanzadeh, M. Shahriari, and M. Sharifzadeh Gamma Irradiator Dose Mapping Simulation Using the MCNP Code and Benchmarking with Dosimetry

Radiation Physics and Chemistry, 2002, Vol. 63, p773-5, A. Akhavan, M. Sohrabour and M. Sharifzadeh Preparation of a New Chemical Radiochromic Film Dosimeter

Radiation Physics and Chemistry, 2002, Vol. 63, p769-72, M. Sohrabpour, M. Hassanzadeh, M. Shahriari and M. Sharifzadeh Dose Distribution of the IR-136 Irradiator using a Monte Carlo Code and Comparison with Dosimetry

Annals of Nuclear Energy, 2002, Vol. 29, p1989-2000, M.B. Ghofrani and S.A. Damghani

Determination of the Safety Importance of Systems of the Tehran Research Reactor using a PSA Method

Radiation Protection Dosimetry, 2003, Vol. 104, p27-30, M.R. Kardan, S. Setayeshi, R. Koohi-Fayegh and M. Ghiassi-Nejad Neutron Spectra Unfolding in Bonner Spheres Spectrometry Using Neural Networks

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 27, p36-47, Syed Abdolamir Tabibian

Enhancement of the Safety Level in Advanced Russian Nuclear Power Plants (VVER) with the Reactor Model V-392

Iranian Journal of Nuclear Medicine, 2003, Vol. 20, p1-6, K. Hadad, M. Alavi, and Y. Gorji

Determination of Absorbed Ratio in I-131 Dosimetry using MCNP-4A

Medical Science Monitor, 2003, Vol. 9, p7-10, M.B. Tavakoli Annual Radiation background in the City of Isfahan

Iranian Journal of Medical Physics, 2003, Vol. 1, p37-43, A. Sharafi, M. Salouti, and M. Doroudian A Study of Radioactive Contamination at the Nuclear Medicine Centers in Tehran

Iranian Journal of Radiation Research, 2003, Vol. 1, p87-91, D. Shahbazi-Gahrouei Annual Background Radiation in Chaharmahal and Bakhtiari Province

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p35-42, M. Feyzinezhad and C. Khamooshy Atmospheric Dispersion Modeling in Bushehr Nuclear Power Plants

Journal of Army University of Medical Sciences of the I.R. Iran, 2004, 2(4 Serial Number 8), p463-6, Monfared A. Shabestani Nuclear Weapons Triage of Injured and Therapeutic Approach to the Acute Radiation Syndrome

Iranian Journal of Radiation Research, 2004, Vol. 2, p1-6, F. Abbasisiar, T. Hosseini, A. Fathivand and Gh. Heravi Determination of Uranium Isotopes (²³⁴U, ²³⁸U) and Natural Uranium (U-nat) in Water Samples by Alpha Spectrometry

Iranian Journal of Radiation Research, 2004, Vol. 2, p75-8, M.M. Ahasan Assessment of Radiation Dose in Nuclear Medicine Hot Lab

Iranian Journal of Radiation Research, 2004, Vol. 2, p79-84, M.T. Bahreyni Toosi and A.R. Khoshbin Khoshnazar Measurement of Stereotactic Beam Data of 9 MeV X-Rays using Diode Detector

Radiation Protection Dosimetry, 2004, Vol. 109, p253-6, M.R. Deevband, M. Ghiassi-Nejad, S. Borhan-Azad, and M.B. Tavakoli The Evaluation of Parameters Affecting Accidents in Companies Using Industrial Radioactive Sources in Iran Insight – Non-Destructive Testing and Condition Monitoring, 2004, Vol. 46, p396-8, K. Edalati, N. Rastkhah, A. Kermani, M. Seidi and A. Movafeghi In-Service Corrosion Evaluation in Pipelines using Gamma Radiography – A Numerical Approach

Insight – Non-Destructive Testing and Condition Monitoring, 2004, Vol. 46, p594-7, A. Movafeghi, M.H. Kargarnnovin, H. Soltanianzadeh, K. Edalati, B. Rokrok, A. Kermani and M. Seidi

A Radiographic Calibration Method for Eddy Current Testing of Heat Exchanger Tubes

Journal of Radiation Protection, 2004, Vol. 24, p173-8, M. Hosseini and M. Jafarizadeh Effect of Reader and Oven Annealing on the Glow Curve Structure and Fading of a LiF:Mg,Cu,P TL Dosimeter

Nuclear Instruments and Methods in Physics Research A, 2004, Vol. 522, p447-54, *M.H. Hadizadeh Yazdi, *A.A. Mowlavi, **M.N. Thompson, and *H. Miri Hakimabad *Physics Department, Ferdowsi University of Mashhad, Mashahd, Iran **School of Physics, University of Melbourne, Melbourne, Australia Proper Shielding for NaI(Tl) Detectors in Combined Neutron-Gamma Fields Using MCNP

Iranian Journal of Radiation Research, 2005, Vol. 3, p11-5, *H. Pourbeigi, **A.S. Meigooni, *H. Ghafourian, **R.A. Koona and ***M.H. Zahmatkesh *Department of Nuclear Research Center, Atomic Energy Organization of Iran **Department of Radiation Medicine, University of Kentucky ***Novin Medical Radiation Institute, Tehran, Iran Enhancement of MD-55-2 Radiochromic Film Sensitivity Using a Multilayer Film Technique for Applications in the Low Dose Range

Iranian Journal of Radiation Research, 2005, Vol. 3, p17-20, F. Bouzarjomehri and M.H. Ehram Poush Gamma Background Radiation in Yazd Province: A Preliminary Report

Iranian Journal of Physics Research, 2006, Vol. 6, p20-, A. Pazirandeh and E. Shekarian Beam Neutron Energy Optimization for Boron neutron Capture Therapy using Monte Carlo Method

Journal of Radiation Protection, 2006, Vol. 26, p97-103, F. Torkzadeh and F. Manouchehri Thermal Neutron Fluence Measurement in a Research Reactor Using Thermoluminescence Dosimeter TLD-600

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 268, p43-6, A.H. Ranjbar and H. Barghordar Activity Concentration of ²²²Rn Released from Crushed Granite Stones of Iranian Origin Journal of Radiation Protection, 2006, Vol. 26, p429-35, M.R. Kardan Promoting the Safety Performce of Industrial Radiography using a Quantitative Assessment System

Journal of Radiation Research, 2006, Vol. 47, p279-85, S. Mohammadi, M. Taghavi-Dehaghani, M.R. Gharaati, R. Masoomi and M. Ghiassi-Nejad Adaptive Response of Blood Lymophocytes of Inhabitants Residing in High Background Radiation Areas of Ramsar-Micronuclei, Apoptosis and Comet Assays

Journal of Fusion Energy, 2006, Vol. 25, p47-55, E. Alizadeh Environmental and Safety Aspects of Using Tritium in Fusion

Applied Radiation and Isotopes, 2006, Vol. 64, p940-7, G. Raisali, N. Hajiloo, S. Hamidi and G. Aslani Analysis of Neutron and Gamma-Ray Streaming Along the Maze of NRCAM Thallium Production Target Room

Radiation Protection Dosimetry, 2006, Advanced access, G. Raisili, H. Davilu, A. Haghighishad, R. Khodadadi, and M. Sabet Calculation of Total Equivalent and Collective Dose in the Event of a LOCA in Bushehr Nuclear Power Plant

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 270, p319-24, M.R. Abdi, H. Faghihian, A. Hasanzadeh and M. Kamali Distribution of Natural Radionuclides and Hot Points in Coasts of Hormozgan, Persian Gulf, Iran

Radiation Protection Dosimetry, 2007, Vol. 125, p224-8, F. Torkzadeh and M. Taheri Improvement and Calibration of a SSNT Personal Dosemeter and Study of Importance of Albedo Factor for Dose Calculation

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, Vol. 580, p384-7, A. Pazirandeh and A. Taheri Neutron Micro-Beam Design Simulation by Monte Carlo

Radiation Medicine, 2007, Vol. 25, p315-24, A. Mesbahi, P. Mehnati A. Keshtkar and A. Farajollahi

Dosimetric Properties of a Flattening Filter-Free 6-MeV Photon Beam: a Monte Carlo Study

Iranian Journal of Science and Technology, Transaction A, 2007, Vol. 31, p397-401, A. Akhavan, M. Sohrabpour and M. Sharifzadeh Dosimetric Evaluation of a Newly Developed Radiochromic Film for Radiation Processing Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 2007, Vol. 263, p473-6, M.N. Nasrabadi, M. Jalali and A. Mohammadi

Calculation of Thermal Neutron Self-Shielding Correction Factor for Aqueous Bulk Sample Prompt Gamma Neutron Activation Analysis Using the MCNP Code

Applied Radiation and Isotopes, 2007, Vol. 65, p1029-36, A. Meshabi Dosimetric Characteristics of Unflattened 6 MeV Photon Beams of a Clinical Linear Accelerator: A Monte Carlo Study

Iranian Journal of Nuclear Science and Technology, 2008, Vol. 42, p1-6, F. Manouchehri, F. Torkzadeh, N. Mirzajani and S. Jalilian Thermal Neutron Fluence Measurement using Thermoluminescence Dosimeter TLD-600

Journal of Luminescence, 2008, Vol. 128, p11-4, N. Ghal-Eh and R. Koohi-Fayegh A Sensitivity Analysis Appraoch to Optical Parameters of Scintillation Detectors

Iranian Journal of Radiation Research, 2008, Vol. 6, p31-36, K. Adinehvand, M.H. Zahmatkesh, M.R. Aghamiri, S. Akhlaghpour and S. Bagheri Verification of Dose Rate and Energy Dependence of MAGICA Polymer Gel Dosimeter with Electron Beams

International Journal of Low Radiation, 2008, Vol. 5, p124-133, S.R. Mahdavi, A. Shrizai, A. Khodadadee, M. Ghafoon and A. Meshabi The Monte Carlo Simulation of the TLD Response Function: Scattered Radiation Field Application

Annals of Nuclear Energy, 2008, Vol. 35, p601-9, S.M. H. Hadavi Risk-Based Genetic Algorithm Approach to Optimize Outage Maintenance Schedule

Annals of Nuclear Energy, 2008, Vol. 35, p1397-1402, S.A.H. Feghhi, M. Shahriari and H. Afarideh

Calculation of the Importance-Weighted Neutron Generation Time Using MCNIC Method

Radiation Protection Dosimetry, 2008, Advance Access, N. Hajiloo, G. Raisali and G. Aslani

Analysis and Improvement of Cyclotron Thallium Target Room Shield

Annals of Nuclear Energy, 2008, Article in Press, S.M.H. Hadavi VVER-1000 Stutdown Probabalistic Risk Assessment: An Introductory Insight

Energy Conversion and Management, 2008, Vol. 49, p1972-80, M.R. Nematollahi and A. Zare

A Simulation of a Steam Tube Rupture in a VVER-1000 Plant

Marine Pollution Bulletin, 2008, Vol. 56, p751-7, M.R. Abdi, M. Kamali and S. Vaezifar Distribution of Radioactive Pollution of ²³⁸U, ²³²Th, ⁴⁰K and ¹³⁷Cs in Northwestern Coasts of Persian Gulf, Iran

Reliability Engineering and System Safety, 2008, Vol. 93, p1377-1409, F. Faghihi, E. Ramezani, F. Yousefpour and S.M. Mirvakili Level-1 Probablity Safety Assessment of the Iranian Heavy Water Reactor Using SAPHIRE Software

Applied Radiation and Isotopes, 2008, Vol. 66, p1431-1437, M. Sadeghi, S.H. Hosseini and G. Raisali

Experimental Measurements and Monte Carlo Calculations of Dosimetric Parameters of the IRA1-¹⁰³Pd Brachytherapy Source

Applied Radiation and Isotopes, 2008, Vol. 66, p1856-1860, G. Raisali, M.C. Ghonchehnazi, P. Shokrani and M. Sadeghi Monte Carlo and Experimental Characterization of the First AMIRS ¹⁰³Pd Brachytherapy Source

Radiation Protection Dosimetry, 2008, Advance Access, S. Golmakani, M.V. Moghaddam and T. Hosseini Factors Affecting the Transfer of Radionuclides from the Environment to Plants

Nuclear Engineering and Design, 2009, Vol. 239, p239-243, M.K. Shoushtari, T. Kakavand, H. Ghaforian and S.M. Sadat Kiai Preliminary Scoping Study of Some Neutronic Aspects of nNew Shim safety Rods for a Typical 5MW Research Reactor by Monte Carlo Simulation

Applied Radiation and Isotopes, 2009, Article in Press, M. sadeghi and S.H. Hosseini Study of the IsoAid ADVANTAGE^{TM 125}I Brachytherapy Source Dosimtetric Parameters using Monte Carlo Simulation

Nuclear Waste Treatment:

Documents/Reports:

VP-CNS, ST/3	Regulation and Standards of Radioactive Wastes
H. Ghafourian	1996

Thesis:

P. Ashtari, Thesis (M.S.), Teacher Training University, Teheran, Iran, June 1995 Treatment of Radioactive Wastes from Uranium Concentrating Z. Sabouni, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, July 1995 Liquid Waste Management at Nuclear Power Plant with VVER

M.R. Ghaderi, Thesis (M.S.), Tehran University, July 1999 The Processing of Wastes at in Talmesi and Meskani Mines

Conference Papers:

1st International FEZA Conference, Eger, Hungary, 1999, H. Faghihian, H. Kazemian and M. Ghannadi Maragheh Synthesis of Zeolite P from Clinoptiloite Rich-Tuffs, Its Potential for Removal of Cs, Sr,

Ba, and Ca from Liquid Radioactive Wastes

Research Week of Isfahan University, March 9, 1999, H. Faghahian, M. Ghannadi Maragheh and H. Kazemian Investigation on the Uptake of ¹³⁷Cs and ⁹⁰Sr on the P Zeolite Synthesized from Natural Clinoptiloite

ARS Separatoria 2000, Borowno n Bydgoszcz, Poland, June 14-7, 2000, H. Kazemian, M. Ghannadi Maragheh and H. Faghehian Sorption and Desorption Behavior of Some Iranian Natural Clinoptiloites towards Radiocesium and Radiostrontium

Congress of Chemistry of Azad University in Cooperation with Louis Pasteur University, April 10-11, 2002, M. Ganjizadeh, I. Bayat, M.T. Sadatippor and I. Yavari Using of Synthetic Zeolites in the Treatment of Low-Level Liquid Radioactive Waste

International Youth Nuclear Conference, Daejon, South Korea, April 12-16, 2002, H. Kazemian, H. Modarres and H. Ghasemi Iranian Natural Clinoptiloite and its Relevant Modified and Synthetic Forms as Potential Absorbers for Cerium and Thorium from Liquid Waste Streams

The Agency's Technical Meeting on Regulatory Approaches for the Control of Environmental Residues Containing Naturally Occurring Radioactive Material, September 23-7, 2002, M.H. Mallah, H. Kazemian, H. Ghasemi, M.A. Moshen and A. Malekinedjad

Evalution of the Removal of Uranium from Nuclear Wastes by Means of Some Zeolitic Exchangers

International Conference on Issues and Trends in Nuclear Waste Management, Vienna, Austria, December 9-13, 2002, H. Kazemian, M. Ghannadi Maragheh, M.H. Mallah, Z.M. Firooz, R. Kooshkestani and S.S. Naghavi

Conversion of Radwaste-Loaded Zeolites into a Borosilicate Glass to Improve Their Properties for Final Disposal

International Conference on Research Reactor Utilization, Safety, Decommissioning, Fuel, and Waste Management, Santiago, Chile, November 10-4, 2003, M. Etthadian, S. Momenzadeh, M. Ansar, A. Maleki and M. Jamalifar Development of a Centralized Waste Management Facility for Tehran Research Reactor

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, H. Kazemian, M.H. Mallah, H. Ghasemi, and A. Malekinejad Zeolites and Their Utilizations in Radioactive Waste Treatment

WM'04 Conference, Tucson, AZ, February 29 – March 4, 2004, H. Kazemian, H.G. Mobtaker, M.H. Mallah and M.R. Khani Nuclear Waste Treatment in Researches in Iran

2nd National Senimar of Chemistry and the Environment, Isfahan, Iran, 2004, H. Faghihian, A. Malekpour, M.R. Maragheh and M. Fazlali Absorption and Immobolization of Anionic Radionuclides from Nuclear Waste Waters by Natural and Modified Zeolites

8th Iranian Inorganic Chemistry Conference, Tabriz, Iran, August 23-5, 2004, H. Zakeri, M.S. Rabbani and H. Kazemian Improvement of Radwaste Cleanup of an Iranian Natural Zeolite Using Hydrothermal Modification Procedure

Iranian Nuclear Conference, Bushehr, Iran, February 23-4, 2005, H. Kazemian, P. Daryabi, M.M. Mallah and M.R. Khani Conversion of Ion Exchange Zeolites with Fission Products Cs and Sr into Borosilicate Glass to Stabilize Radioactive Waste

Iranian Nuclear Conference, Mashad, Iran, February 22-4, 2006, H. Ghasemi, H. Kazemian, A. Malekinejad and M.R. Pakzad Uranium Recovery from Zeolite P Loaded with Uranyl Nitrate

International Symposia on Zeolites and Microporous Crystals, Yonago, Japan, July 30 - August 2, 2006, M.H. Ghasemi, H. Kazemian, A. Malekinejad and M.R. Pakzad UO_2^{2+} Sorption on Zeolites A and P Synthesized from Iranian Natural Zeolites

1st Human, Life and Radiation Conference, Rafsanjan University of Medical Sciences,
 October 29-31, 2006, M. Ganjineh
 Adsorption of Cs-137 from Liquid Radioactive Waste Using Synthestic Sorbents

Journal Articles:

Nuclear Science Journal, 1998, Vol. 35, p379-84, H. Faghihian Use of Iranian Laumontite for Removal of Radiocesium, Ammonium and Magnesium from Liquid Waste Journal of Radioanalytical and Nuclear Chemistry, 1998, Vol. 231, p153-5, H. Faghihian and H. Kazemian The Use of Natural Mesolite as a Storage Material for Tritiated Water

Applied Radiation and Isotopes, 1999, Vol. 50, p655-60, H. Faghihian, M.G. Marageh and H. Kazemian

The Use of Clinoptilolite and Its Sodium Form for Removal of Radioactive Cesium, and Strontium From Nuclear Wastewater and Pb2+, Ni2+, Cd2+, Ba2+, From Municipal Wastewater

Nuclear Science Journal, 2000, Vol. 37, p180-7, H. Faghihian and H. Kazemian Zeolite P Synthesized from Clinoptilolite Rich-Tuffs as a Potential Material for Removal of Cs, Sr, Ba, and Ca from Liquid Wastes

International Journal of Environmental Pollution, 2002, Vol. 18, p181-9, H. Faghihian, A. Malepour, and M.G. Ghannadi Adsorption of Molybate Ion by Natrolite and Clinoptilolite Rich-Tuffs

Journal of Radioanalytical and Nuclear Chemistry, 2003, Vol. 258, p551-6, H. Kazemian, H. Modarres, and H. Ghasemi Mobtaker Iranian Natural Clinoptilolite and its Synthetic Zeolite P for Removal of Cerium and Thorium from Nuclear Wastewaters

International Journal of Environmental Science and Technology, 2004, Vol. 1, p49-54, F. Moattar and S. Hayeripour Application of Chitin and Zeolite Adsorbents for Treatment of Low Level Radiactive Liquid Wastes

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 261, p619-23, H. Kazemian, M.H. Mallah, and M. Ghannadi Maragheh Vitirification of HLW Generated by a Production Unit for Radiopharmaceuticals Using Simulated Waste Solutions

Journal of Environmental Studies, 2005, Vol. 31, p1-8, E. Safari In-Situ Reduction of Leachate organic Loading – Case Study: Kahrizak Landfill

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 39, p9-19, H. Aminfar and J. Ghasemi

Heat Transfer study of High Level Waste Stored in Deep Underground Tunnel and its Effect on Ground Surface Temperature

Applied Radiation and Isotopes, 2007, Vol. 65, p482-7, A. Nilchi, H. Atashi, A.H. Javid, and R. Saberi Preparation of PAN-Based Adsorbers for Separation of Cesium and Cobalt from Radioactive Wastes Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p35-9, H. Abolghasemi, M. Rostammnejhad, S. Momenzadeh and N. Hadadi Application of Natural Vermuculite for Cesium Removal from Radioactive Aqueous Waste

Nuclear Physics Research

Documents/Reports:

Tech. Rept. No. 17 NRC	Preparation of Am-241 Source for Smoke Detector
H. Ghaforuian	1982
Tech. Rept. No. 58 NRC H. Ghafourian	Preparation of Am-241 Source for Lightening System 1985

Thesis:

R. Koohi-Fayegh, Thesis (M.S.), 1977, University of Birmingham, UK Implementation of the Unfolding Code FERDOR

R. Koohi-Fayegh, Thesis (PhD), 1980, University of Birmingham, UK Neutron Spectrum Measurement in a LiF-Be Assembly Using a Miniature NE-213 Spectrometer

H. Afarideh, Thesis (M.S.), 1985, University of Birmingham, UK Development of New Techniques for Automatic Track Counting

H. Afarideh, Thesis (PhD), 1988, University of Birmingham, UK Investigation of Light Particles in Ternary and Binary Fission of ²⁵¹Cf and ²³⁸U

A.M. Zolfaghari, Thesis (PhD), 1994, Department of Nuclear Engineering,
 Masachusetts Institute of Technology
 Electron Cyclotron Emissions Flucuation Diagnostic on JET and PBX-M Tokamaks

F. Shoukouhi, Thesis (M.S.), June 1995 Determination of Proton-Induced M-Shell X-Ray Production Cross Sections in the Rare-Earth Elements

Conference Papers:

American Nuclear Society 1973 Winter Meeting, San Francisco, CA, 1973, M. Sohrabpour An Analytical Calibration Method for Insitu Neutron Capture Gamma Sondes International Conference on the Interactions of Neutrons with Nuclei, Lowell, MA, 1976, M.A. Hooshyar Neutron Induced Fission of ²³³U, ²³⁵U and ²³⁹Pu

Neutron Capture Gamma-Ray Spectroscopy, Upton, New York, 1978, A.A. Soltanieh Neutron Capture Gamma-Ray Study at Tehran Nuclear Research Center

International Conference on Solid State Nuclear Track Detectors, Bristol, UK, September 7-12, 1981, S.A.R. Al-Najjar, R. Koohi-Fayegh, and S.A. Durrani Neutron Spectrometry Using Chemical and Electrochemical Etching of CR-39 Work performed at the Department of Physics, University of Birmingham, Birmingham, UK

Proceedings of the 2nd World Conference on Neutron Radiography, Paris, France, 1986, K. Kamali, Moghadam, Z. Tabatabaeian, and N. Mirhabibi Neutron Radiography Facility for AEOI Nuclear Research Center

Proceedings of the 3nd World Conference on Neutron Radiography, Osaka, Japan, 1989, K. Kamali Moghadam, M.K. Marashi, and H.R. Vafaee Neutron Radiography Facilities Using a 3 MeV Van De Graaf Accelerator at AEOI Nuclear Research Center

Particle Tracks in Solids, 15th International Conference, Marburg, Germany, 1990, H. Afarideh Beam Profile Measurement of Particles Produced by 3 MeV Van de Graff

IAEA Nuclear Techniques in the Exploration and Exploitation of Energy and Mineral Resources, Vienna, Austria, 1991, M. Sohrabpour, V. Zarifian and K.K. Moghadam Design and Testing of a Laboratory Borehole Facility for Simulation of Neutron Capture Gamma-Rays

American Nuclear Society Annual Conference, 1993, K. Haddad and W.L. Filippone Coupled Electron/Photon SN Calcualtion in Lattice Geometry

International Conference on Nuclear Data for Science and Technology: Nuclear Data for the Twenty-First Century, Gatlinburg, TN, 1994, M.K. Marashi Evaluation of IRAN.LIB Nuclear Data Library

Taiwan Nuclear Conference, April 1994, K. Hadad and P.A. Seeker Scram Reduction Analysis using a Workstation Based Full Scope Power Plant Simulation

Particle Induced X-Ray Emission and Its Analytical Applications. Seventh International Conference on PIXE and Its Analytical Applications, Padua, Italy, 1996, F. Shoukouhi M-Shell X-Ray Production Cross Sections of Tb, Ho, Tm, and Lu for Protons of Energy 2-6 MeV International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Budapest, Hungary, 1996, A.V. Murzin Reactor Filtered Neutron Beams for Astrophysical and BNCT Investigations

International Conference on Nuclear Data for Science and Technology, Trieste, Italy, 1997, A. Pazirandeh Cold Neutron Flux Calculation in Liquid Hydrogen Using Monte Carlo Method

International Conference on Nuclear Data for Science and Technology, Trieste, Italy, 1997, S. Rastikerdar ¹⁰²Pd New Results

International Conference on Nuclear Data for Science and Technology, Trieste, Italy, 1997, Z. Kargar Study of Spin Dependent Nuclear Level Density

International Conference on Nuclear Data for Science and Technology, Trieste, Italy, 1997, A.N. Behkani Limiting Angular Momentum and Spin Dependent Nuclear Level Density

Iranian Annual Physics Conference, August 23-5, 1997, R. Koohi-Fayegh, H. Miri and M.H. Hadizadeh Experimental and Computational Analysis of Neutron Flux Transmitted From Spherical Beryllium Shells

Iranian Physics Society, September 1999, Babbolsar, Iran, K. Hadad Charged Particles Calculations in Lattice Geomtery

Conference on the Applications of Physics and Nuclear Sciences in Medicine and Industry, Tehran, Iran, February 07, 2000, K. Hadad Evaluation and Comparison of SN and Monte-Carlo Charged Particle Transport Calculations

20th International Conference on Nuclear Tracks in Solids, September 2000, F. Ziaie, A. Karimi, H. Afarideh, S.M. Hadji-Saied and S.A. Durrani Manufacturing of the Graphite Calorimeter at Yazd Radiation Processing and Research Center

Conference on the Applications of Physics and Nuclear Sciences in Medicine and Industry, Tehran, Iran, February 07, 2000, K. Hadad Evaluation and Comparison of SN and Monte Carlo Charged Particle Transport Calculations

Fourth International Chemical Engineering Conference, May 2000, Shiraz, Iran, K. Hadad

An Overview of the Relap5/Mod3 Thermal Hydraulic Computer Code

International Conference on Nuclear Data for Science and Technology, Tsukuba, Japan, October 7-12, 2001, F. Abassi, H. Afarideh, R. Koochi, G.R. Etaati, M. Aboudzadeh and G. Aslani

Fast Neutron Production by 20-30 MeV Proton Bombardment of Lithium at NRCAM

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, A.A. Salehi, N. Vosoughi and M. Shahariai

Production of Neutronic Discrete Equations for a Cylindrical Geometry in One Group Energy and Benchmark the Results with MCNP-4B Code With a One Energy Group Library

International Conference on Nuclear Engineering, 2003, N. Vosoughi, A.A. Salehi and M. Shahriari

Application of Direct Discrete Method (DDM) to Multigroup Neutron Transport Problems

International Conference on Emerging Nuclear Energy Systems, Istanbul, Turkey, June 3-8, 2003, S.A.H. Feghhi, A. Afarideh and M. Shahriari Calculation of Neutron Importance Function in Fissionable using Monte Carlo Method

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, Y. Zarei Yuzband Feasibility Study of Uncontrolled Fission Chain Reaction

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, K. Hadad, A. Mohamadi, H. Sabel, N. Ayobian, and M. Khani Numerical Solution of Multi Groups Point Kinetic Equations by Simulink Toolbox of Matlab Software

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, M. Moradshahi, M. Avakian, A.A. Dabrizadeh and S. Shayegan Ion Sources in the Center Fusion Atomic Energy Organization of Iran

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, G.R. Raisali and K. Keshtkar Development of a Computer Code for Optimization of Nuclear Reactor Radiation Shield Using Non-Linear Programming

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, M. Shayesteh, M. Shariari, and G. Raisali Noise Analysis in the Start-Up of a Research Reactor without External Source

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, V. Siahpoush, M.A. Mohammadi, S. Khorram, I. Shabani, J. Borhanian, S. Ashrafi, H. Naghshara, M. Moslehi-Fard and S. Sobhanian Preliminary Results of Neutron Production in Sahand Plasma Focus Device Annual Iranian Nuclear Conference, Arak University, Iran, 2004, M. Shayesteh, M. Shariari, and G. Raisali Investigation in Start-Up of a Research Reactor in Weak Source Conditions

Annual Iranian Nuclear Conference, Arak University, Iran, 2004, M. Shahriari, H. zaki and G.R. Etaati Calculation of Recoil Nuclei Specifications on the Elastic Scattering with Neutron Using MCNP Code

International Yugoslav Nuclear Society Conference, Belgrade, Serbia, Septemebr 27-30, 2004, N. Vosoughi and M.Shahriari Finite Formulation of One-Group Neutron Diffusion Equation

International Nuclear Chemistry Congress, Kusadasi, Turkey, May 22-9, 2005, A. Mohammodpour, S. Sobhanian, and S. Ashrafi Neutron Flux Measurement by Activation Analysis

International Topical Meeting on Nuclear Reactor Thermal Hydraulics, Avignon, France, October 2-6, 2005, S.K. Mousavian, M.M. Ertejaei, and M. Shahabfar Transient Thermal-Hydraulic/Neutronic Analysis in a VVER-1000 Reactor Core

5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23, 2005, N. Vosoughi, A.A. Salehi and M. Shahriari On Equivalence of Discret Method with Linear Interpolation and Control Volume Finite Element Method (CVFEM) for Neutron Diffusion Equation

5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23, 2005, S. Kimiagar

A Simple Method for X-Ray Monochromating

International Conference on Emerging Nuclear Energy Systems, Instanbul, Turkey, June 3-8, 2007, S.A.H. Feghhi, H. Afarideh and M. Shahriari Calculation of Neutron Importance in Fissionable Assemblies using Monte Carlo Method

Nuclear Science Symposium, Honolulu, HI, October 26 – November 3, 2007, M.R. Ay, P. Ghafrain and H. Zaidi

A Hybrid Appraoch for Fast Simulation of X-Ray Computed Tomography

Nuclear Science Symposium, Honolulu, HI, October 26 – November 3, 2007, M.R. Ay, H. Ghadiri, P. Ghafrain, S. Sarkar and H. Zaidi The Influence of Energy Indexing Algorithm and Electron Substeps on MCNP4C Electron Transport: Application in Monte Carlo Simulation of X-Ray Spectra in **Diagnostic Radiology**

Nuclear Science Symposium, Honolulu, HI, October 26 – November 3, 2007,P. Ghafarian, M.R. Ay, S. Sarkar, H. Ghadiri and H. Zaidi Impact of X-Ray Tube Voltage, Field Size and Object Thickness on Scattered Radiation Distribution in Daignostic Radiology: A Monte Carlo Investigation

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, Sh. Banari

Simulation of a Hexagonal Collimator and Detection System of SPECT by Using the MCNP4 Method

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, S. Mahmoudian

Computation of the Average Number of Produced Particles, Using Grand Canonial Ensemble for Relativistic Heavy-Ions Collisions

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, M.F. Rahimi

Monte Carlo Simulation of 14MeV Neutrons Slowing Down Energy, Distance and Time, In Finite Media

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, M.F. Rahimi

Study of Neutron Erosion in First Wall of Reactor Materials and Target in Fusion Neutron Generator

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, M.R. Pahlavani

Langevin Appraoch to Kinetic Energy Distribution of Fission Fragments in Assymmetric Mode of Heavy-Ion Reactions

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, M.N. Nasrabadi

Calculation of Thermal Neutron Self-Shielidng Correction Factors for Aqueous Bulk Sample Prompt Neutron Activation Analysis using the MCNP Code

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, I. Forozankya

Study of Induced and Spontaneous Ternary Fission of (Cf, U, Pb, Bi, Th, Au) by Theoretical and Experimental Methods Using Thermal Neutrons, 2.1 GeV Deuterium Beam and 300 GeV Proton Beam, as Projectiles on the Above Targets

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, F. Babapour Wavelets for the Analysis of HPGe Gamma-Ray Spectra

Journal Articles:

Nucleus, 1971, Vol. 8, p83-7, F. Sefidvash Neutron Properties of Organic Moderators and Coolants

Nuclear Physics, 1971, Vol. A175, p629-40, B. Parsa, A. Ashari, L. Goolvard and Y.M. Nobar Decay Scheme of 2.71hr ⁹²Sr

Journal of Nuclear Science and Technology, 1972, Vol. 9, p551-4, A. Razani A Monte Carlo Method for Radiation Transport Calculations

Helvetica Physica Acta, 1973-1974, Vol. 46, p720-3, M.A. Hooshyar Total Spontaneous Fission Half-Life, Mass and Charge Distribution of ²⁵² Cf

Helvetica Physica Acta, 1973-1974, Vol. 46, p724-8, M.A. Hooshyar Total Spontaneous Fission Half-Lives, Kinetic Energy and Mass Yield Spectra of ²⁵⁰Cm, ²⁵⁴Cf and ²⁵⁸Fm

Physics Letters B, 1975, Vol. 55B, p144-6, M.A. Hooshyar Charge Distributions and Average Masses in the Spontaneous and Isomeric Fission of ²³⁴U, ²³⁶U and ²⁴⁰Pu

Nuclear Science and Engineering, 1975, Vol. 1, p537-46, H. Aminfar and A. Razani Radial Distribution of Reflection and Transmission of Scattered Gamma Rays

Nuclear Track Detection, 1978, Vol. 2, p119-26, D. Azimi-Garakani Measurement of Fission-Rate Distributions on a Standard Uranium Shell

Applied Physics Letters, 1978, Vol. 33, p676-7, M.R. Khan Proton-Induced X-Ray Emission Analysis of Thick Targets – A New Approach

Nuclear Instruments and Methods, 1979, Vol. 159, p135-8, D. Azimi-Garakani Sensitivity Analyses for the Secondary Intermediate-Energy Standard Neutron Field at the NISUS Facility

Nuclear Technology, 1979, Vol. 42, p343-9, A. Aframian Neutron Fluence Measurements with Solid-State Nuclear Track Detectors: Results of a Comparative Study with Gold and Indium Foils

Atomkernenergie Kerntechnik, 1981, Vol. 39, p249-52, A.A.S. Jalyani A New Monte Carlo Method for Gamma Ray Transport Calculations International Journal of Applied Radiation and Isotopes, 1981, Vol. 32, p119-9, H. Mohammadi

Dosimetric Influence of Secondary Electrons during Accelerator-Produced Fast Neutron Irradiation

Nuclear Tracks and Radiation Measurements, 1983, Vol. 7, p121-8, D. Azimi-Garakani ²³⁵U:²³⁸U Fission-Ratio Measurements in a Fast-Neutron Field

Helvetica Physica Acta, 1984, Vol. 57, p416-20, R. Varatanian Spontaneous Fission Decay Constant of ²³⁸U by the Fission Track Technique

Journal of Physics G, 1984, Vol. 10, pL251-5, M. Modarres Local Density Approximation for Alpha-Particle Binding Energy

Annals of Nuclear Energy, 1990, Vol. 17, p143-51, H. Afarideh Angular Distribution of Fragments from the Fission of ²³⁸U Induced by Neutrons in the Energy Range of 1-18 MeV

Nuclear Science Journal, 1990, Vol. 27, p308-14, M. Eskandari The Effect of Interference between the Resonances of Uranium-238 for Thermal Lattices

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p801-2, H. Afarideh Beam Profile Measurement of Particles Produced by 3 MeV Van de Graff Accelerator

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p553-4, H. Afarideh Angular Distribution of Fragments from the Fission of ²³⁸U and ²³²Th Induced by Neutrons in the Energy Range of 1-18 MeV

Annals of Nuclear Energy, 1991, Vol. 18, p597-602, M.K. Marashi IRAN.LIB (Improved Range of ANISN/PC Library): A P-3 Coupled Neutron-Gamma Cross-Section Library in ISOTXS Format to be used by ANISN/PC (CCC-0514/02)

Nuclear Instruments and Methods in Physics Research, 1992, Vol. A317, p399-401, *S. Green, **R. Koohi-Fayegh, and *M.C. Scott

A Gated Single Parameter Data Acquisition System for Fast Neutron Spectroscopy with NE-213

*School of Physics and Space Research, University of Birmingham, Birmingham, UK **Physics Department, Ferdowsi University of Mashahd, Mashhad, Iran

Annals of Nuclear Energy, 1993, Vol. 20, p365-70, M.A. Salehi Solution of the 1-D Multigroup Time-Dependent Diffusion Equation Using the Orthogonal Collocation Method

Nuclear Science Journal, 1993, Vol. 30, p231-3, M. Eskandari Neutron Mean Leakage Time for the CF-251/252 Power System Radiation Measurements, 1995, Vol. 24, p265-76, M. Sohrabi A Novel Track Density Measurement Method by Thermal Neutrons Activation of DYECETs

Journal of Physics G, 1996, Vol. 22, p1037-42, S. Rastikerdar New Results on 102 Cd

Radiation Measurements, 1997, Vol. 28, p533-6, F. Ziaie, A.A. Houseini and S.A. Durrani Neutron Flux Distribution Measurements Methods and Comparison

Journal of Physics B, 1997, Vol. 30, p863-72, A. Amirabadi L Subshell and Total M Shell X-Ray Production Cross Section of Hg for Protons of Energy 0.7-2.9 MeV

Nuclear Science Journal, 1999, Vol. 36, p100-13, A.N. Behkani Study of Fragment Anisotropies and Inertia Parameters

Physics Letters A, 1999, Vol. 256, p212-6, *A. Tavakoli, **D.D. Tskhakaya, and **N.L.
Tsintsadze
*Institute for Studies in Theoretical Physics and Mathematics, Tehran
**Institute of Physics, Georgian Academy of Sciences, Tbilisi, Georgia
Rayleigh-Taylor Instability in the Presence of a Density Transition Layer

Nuclear Instruments and Methods in Physics Research, 1999, Vol. 431, p380-2, *S. Green, **R. Koohi-Fayegh, and *M.C. Scott *School of Physics and Space Research, University of Birmingham, Birmingham, UK **Physics Department, Ferdowsi University of Mashahd, Mashhad, Iran An Observation on the Response of Small NE-213 Scintillation Detectors to High Energy Neutrons

Applied Radiation and Isotopes, 1999, Vol. 50, p805-10, M. Sohrabpour, M. Shahriari, V. Zarifian and K.K. Moghadam Borehole Prompt Gamma Neutron Activation and Comparison with Monte Carlo Simulation Using MCNP Code

Iranian Journal of Physics Research, 2000, Vol. 1, p78-, M.H. Alamatsaz and A. Shirani A Method for Simulating Photon Transport through Matter

Nuclear Science Journal, 2000, Vol. 37, p307-12, A.N. Behkani Study of Fragment Anistropies in Neutron-Induced Fission of ²⁴⁰Pu

Nuclear Science Journal, 2000, Vol. 37, p403-8, A.N. Behkani Statistical Treatment of Fission Fragments Produced in Heavy-Ion Reactions Annals of Nuclear Energy, 2000, Vol. 27, p959-67, R. Koohi-Fayegh, M.H. Abad, S. Green and M.C. Scott Neutron Spectrum Measurements from 1-16 MeV in Beryllium Assemblies with a Central D-T Neutron Source

Iranian Journal of Physics Research, 2001, Vol. 2, p3-, M. Khalaj, R. Koohi-Fayegh and M.H. Hadizadeh Yazdi

The Calculated Neutron Energy Spectrum of alpha-n Sources Using Monte Carlo Method

Nuclear Instruments and Methods in Physics Research A, 2001, Vol. 460, p391-400, *R. Koohi-Fayegh, *S. Green, and *M.C. Scott

A Comparison of Neutron Spectra Unfolding Codes Used with a Miniature NE213 Detector

*School of Physics and Astronomy, University of Birmingham, Birmingham, UK

Iranian Journal of Nuclear Science and Technology, 2001, Vol. 38, p901-6, H. Noshad, S. Soheyli, and M. Lamehi-Rachti Fission of ²⁰⁹Bi and ¹⁹⁷Au Nuclei Induced by 30 MeV Protons

Physics Review C, 2001, Vol. 63, p64607, A.N. Behkani, Z. Kargar, P. Nazarzadeh, and M.N. Nasrabadi Microscopic Study of Fission Fragment Annular Distributions

Iranian Journal of Physics Research, 2002, Vol. 3, M.H. Alamatsaz and A. Shirani Calcualtion of Point Isotropic Buildup Factors of Gamma Rays for Water and Lead

Radiation Physics and Chemistry, 2002, Vol. 63, p177-83, F. Ziaie, Z. Zimek, S. Bulka, H. Afarideh and S.M. Hadji-Saied Calculated and Measured Dose Distribution in Electron and X-Ray Irradiated Water Phantom

Radiation Measurements, 2002, Vol. 35, p327-31, H. Noshad, S. Soheyli, M. Lamehi-Rachti, A.R. Talebi-Taher, G. Aslani, S. Maboudi-Moghaddam, J. Rahighi, O.R. Kakue and H. Heydari Nuclear Physics Research at the 30 MeV Karaj Cyclotron

Iranian Journal of Physics Research, 2002, Vol. 3, p101-7, F.A. Davani, G.R. Etaati, R.K. Fayegh, and G.R. Aslani Neutron Spectrum Measurement in D + Be Reaction

Applied Radiation and Isotopes, 2002, Vol. 57, p537-42, M. Sohrabpour, M. Hassanzadeh, M. Shahriari and M. Sharifzadehh Gamma Irradiator Dose Mapping Simulation Using the MCNP Code and Benchmarking With Dosimetry Annals of Nuclear Energy, 2002, Vol. 29, p1195-208, S. Sheibani, F. Moattar, M. Ghannadi Maragheh and H. Khalafi Investigation of a Simple and Efficient Method for Silicon Neutron Transmutation Doping Process in Tehran Research Reactor

Nuclear Technology and Radiation Protection, 2003, Vol. 18, p12-23, N. Vosiughi, A.A. Salehi, M. Shahriari and E. Tonti Direct Discrete Method and its Application to Neutron Transport Problems

Annals of Nuclear Energy, 2003, Vol. 31, p231-53, N. Vosoughi, A.A. Salehi and M. Shahriari Discrete Formulations for Two-Dimensional Multigroup Neutron Diffusion Equations

Radiation Measurements, 2003, Vol. 37, p237-45, F. Abbasi Davani, R. Koohi-Fayegh, H. Afarideh, G.R. Etaati and G.R. Aslani Design, Calibration and Testing of the NRCAM Fast Neutron Spectrometry System

Iranian Journal of Physics Research, 2004, Vol. 4, p18-, R. Izadi-Najafabadi, R. Koohi-Fayegh and H. Afarideh Measurment and Calculation of High Energy Neutron Flux in Aluminum, Graphite, Water and Paraffin Assembly

Nuclear Instruments and Methods in Physics Research A, 2004, Vol. 516, p116-21, *N. Ghal-Eh, **M.C. Scott, *R. Koochi-Fayegh, and *M.F. Rahimi A Photon Transport Model Code for Use in Scintillation Detectors *Physics Department, Ferdowsi University of Mashhad, Mashhad, Iran **BNCT Group, School of Physics and Astronomy, University of Birmingham, Birmingham, UK

Nukleonkia, 2004, Vol. 49, p159-62, F. Ziaie Manufacturing of a Graphite Calorimeter at Yazd Radiation Processing Center

Journal of Fusion Energy, 2004, Vol. 23, p207-215, E. Sharbati, B. Safavisohi and C. Aghanajafi Transient Heat Transfer Analysis of a Layer Considering the Effect of Radiation

Annals of Nuclear Energy, 2004, Vol. 31, p231-53, N. Vosoughi, A.A. Salehi, and M. Shahriari

Discrete Formulation for Two-Dimensional Multigroup Neutron Diffusion Equations

Applied Mathematics and Computation, 2004, Vol. 155, p563-72, F. Faghihi and K. Hadad

Numerical Solutions of Coupled Differential Equations and Initial Values Using Maple Software

Radiation Physics and Chemistry, 2004, Vol. 69, p461-5, M.A. Allaf, M. Shahriari, and M. Sohrabpour

Monte Carlo Source Simulation Technique for Solution of Interference Reactions in INAA Experiments: A Preliminary Report

Radiation Measurements, 2004, Vol. 38, p185-91, M.R. Kardan, R. Koohi-Fayegh, S. Setayeshi and M. Ghiassi-Nejad

Fast Neutron Spectra Determination by Threshold Activation Detectors using Neural Networks

Nuclear Instruments and Methods in Physics Research A, 2004, Vol. 522, p447-54, M.H. Hadizadeh Yazdi, A.A. Mowlavi, M.N. Thompson and M.H. Hakimabad Proper Shielding for NaI(Tl) Detectors in Combined Neutron-Gamma Fields using MCNP

Applied Mathematics and Computation, 2004, Vol. 155, p563-72, F. Faghihi and K. Hadad

Numerical Solutions of Coupled Differential Equations and Initial Values using Maple Software

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p43-6, H. Fathollahi, H. Ahari Mostafavi, and F. Majd Investigation of the Possibility of Extension of Irradiation Domain for Gamma-Cell Facility to Lower Doses

Applied Radiation and Isotopes, 2004, Vol. 60, p959-62, A.A. Mowlavi and R. Koohi-Fayegh

Determination of 4.438 MeV Gamma-Ray to Neutron Emission Ratio from a ²⁴¹Am-⁹Be Neutron Source

Nukleonika, 2005, Vol. 50, p121-4, F. Ziaie and S.M.R. Tahami Mass Throughput Rate Calculation for X-Ray Facilities

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 33, p15-20, A. Pazirandeh and H. Poo-Soaimani Study on the Feasibility of using ⁹⁹Tc as a Burnable Poison Instead of ¹⁰B in Nuclear Fuel Assemblies

Applied Radiation and Isotopes, 2005, Vol. 62, p461-8, A. Kamali-Asl, S. sarkar, M. Shahriari and H. Agha-Hosseini Slit Slat Collimator Optimization with Respect to MTF

International Journal of Pure and Applied Physics, 2005, Vol. 1, p129-36, A.A. Mowlavi, R.I. Najafabadi and R. Koohi-Faygh Calculation of Intrinsic Efficiency of NaI(Tl) Detector Using MCNP Code International Journal of Modern Physics E, 2005, Vol. 15, p727-, F. Faghihi Neutron Flux Distribution of Pu-Be Source using MCNP-4B Code

Nuclear Instruments and Methods in Physics Research A, 2005, Vol. 552, p559-65, A.A. Mowlavi, R. Koohi-Fayegh Tally Modifying of MCNP and Post Processing of Pile-Up Simulation with Time Convolution Method in PGNAA

Mechanical and Aerospace Engineering Journal, 2006, Vol. 1, p21-36, H. Movlani and K. Mazaheri Utilizing a Mixed Implicit-Explicit Method for Solving Radiation Hydrodynamics Equations

International Journal of Modern Physics E, 2006, Vol. 15, p737-45, F. Faghihi, S. Mehdizadeh, and K. Hadad Neutrons Flux Distribution of the Pu-Be Source and its Simulation by the MCNP-4B Code

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 269, 95-8, S. Ashrafi, S. Anvarian, and S. Sobhanian Monte-Carlo Modeling of a NaI(Tl) Scintillator

International Journal of Modern Physics E, 2006, Vol. 15, 737-46, F. Faghihi, S. Mehdizadeh and K. Hadad Neutron Flux Distributions of the Pu-Be Source and its Simulation by the MCNP4B Code

Annals of Nuclear Energy, 2006, Vol. 33, p786-93, M.K. Marashi, G. Raisali, and F. Bolouri

Investigation of ${}^{203/81}$ Tl(p,3n) ${}^{201/82}$ Pb Nuclear Reaction in a Cyclotron Accelerator as a Neutron Source

International Journal of Modern Physics E, 2006, Vol. 16, p805-15, F. Faghihi and M.R. Nematollahi Nuclear Fuel Depletion Analysis Using Matlab Software

Chinese Physics Letters, 2006, Vol. 23, p1434-6, R. Sadighi-Bonabi and O. Kokabee Evaluation of Transmutation of ¹³⁷Cs (gamma,n) ¹³⁶Cs Using Ultra-Intense Lasers in Solid Targets

Journal of Fusion Energy, 2006, Vol. 25, p181-5, M. Abdollahzadeh, S.M. Sadat Kiai, G.R. Etaati and A.R. Babazadeh

Some Studies on the Time Resolved Energy Spectrum Reconstruction for Pulsed Neutron Source

Journal of Sciences, Islamic Republic of Iran, 2007, A. Shirani and E. Shahriari Determination of Neutron Dose-Equivalent Buildup Factors for Infinite Slabs Irradiated by Point Isotropic Neutron Sources Using the MCNP Code

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 38, p36-41, S. Kashian, J. Rahighi, M. Azizi Shamani and H. Ghods Measurement of 14.8 MeV Neutron Flux of a Neutron Generator using Neutron Activation Technique

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 39, p1-8, M. Shayesteh, M. Shahriai and G. Raisli Simulation of Time Dependent Neutron Transport in Fission Reactors using Monte-Carlo Method

Iranian Journal of Radiation Research, 2007, Vol. 4, p183-6, D.R. Ochbelagh, H.M. Hakimabad and R.I. Najafabadi The Effect of Source Shield on Landmine Detection

Advanced Studies in Theoretical Physics, 2007, Vol. 1, p367-379, K. sadeghy, S.M. Tagjavi, N. Khabazi, M. Mirzadeh and I. Karimfazli On the use of Hydrodynamic Instability Test as an efficient Tool for Evaluating Viscoelastic Fluid Models

International Journal of Modern Physics A, 2007, Vol. 22, p1027-37, S. Soheyli, H. Noshad, and M. Lamehi-Rachti Measurement of Fission Fragments Anistropies for Proton-Induced Fission of Two Pre-Actinide Nuclei at Several Energies

Iranian Journal of Radiation Research, 2007, Vol. 5, p41-4, T. Kakavand, H. Ghafourian and M. Haji-Shafeieha Designing a Am-Be Miniature Neutron Source

Annals of Nuclear Energy, 2007, Vol. 34, p514-20, S.A.H. Feghhi, M. Shahriari and H. Afarideh Calculation of Neutron Importance Function in Fissionable Assemblies Using Monte Carlo Method

Chinese Physics Letters, 2007, Vol. 24, p1525-8, S. Soheyli Energy and Mass Distribution of Induced-Fission of ¹⁹⁷Au Nucleus by 29 MeV Protons

Radiation Physics and Chemistry, 2007, Vol. 76, p917-20, N. Ghal-Eh, R. Koohi-Fayegh, and S. Hamidi

Low-Energy Neutron Flux Measurement Using a Resonance Absorption Filter Surrounding a Lithium Glass Scintillator Applied Radiation and Isotopes, 2007, Vol. 65, p918-26, H.M. Hakimabad, H. Panjeh and A. Vejdani-Noghreiyan

Evaluation of the Nonlinear Function of a 3x3 NaI Scintillation Detector for PGNAA Applications

Radiation Measurments, 2007, Vol. 42, p1332-4, H. Zaki-Dizaji, M. Shahriari and G.R. Etaati

Monte Carlo Calculation of CR-39 Efficiency for Fast Neutorn Detection using a Combination of MCNP and SRM Codes, and Comparison with Experimental Results

Asian Journal of Experimental Science, 2008, Vol. 22, p153-8, H. Miri-Hakimabad, H. Panjeh and A. Vejdani-Noghreiyan

An Optimum Landmine Detection System Using Polyethylene Moderator and ²⁴¹Am-Be as a Neutron Source

Radiation Physics and Chemistry, 2008, Vol. 77, p523-7, M. Jalili and A. Mohammadi Gamma Ray Attenuation Coefficient Measurement for Neutron-Absorbent Materials

Advanced Studies in Theoretical Physics, 2008, Vol. 13, p625-35, S.N. Hosseinimotlagh and S.A. Araghi

Determination of Effective Thermal Neutron Diffusion Length in Different Diffusing Media by Using Darboux Method

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 45, M. Tajik and A. Ghasemizad

The Study of Two, Three and Four Dimensional Nonlinear Dynamics of Nuclear Fission Reactors and Effective Parameters on its Behavior

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 45, M. Shayesteh, M. Shahriari and G. Raisali

Time and Space Dependent Neutronic Calculations using TDMC Monte Carlo Code

Applied Mathematical Sciences, 2008, Vol. 2, p1929-48, S.N. Hosseinimotlagh, S.A. Araghi, L. Montazeran and S. Basteni

Calculation of Thermal Neutron Flux in Two Dimensional Structures with Periodic Moderators

Applied Radiation and Isotopes, 2008, Vol. 66, p606-11, H. Miri-Hakimabad, A. Vejdani-Noghrieyan and H. Panjeh Improving the Moderator Geometry of an Antipersonnel Landmine Detection System

Annals of Nuclear Energy, Article in press, 2008, S.A.H. Feghhi, M. Shahriai and H. Afarideh

Calculation of the Importance-Weighted Neutron Generation Time Using MCNIC Method

Annals of Nuclear Energy, 2009, Vol. 36, p15-27, M. Boroushaki Numerical Soution of the Neutron Transport Equation using Cellular Neural Networks

Applied Radiation and Isotopes, 2009, Vol. 67, p266-71, R. taleei and M. Shahriari Monte Carlo Simulation of X-Ray Spectra and Evaluation of Filter Effect using MNCP4C and FLUKA Code

Annals of Nuclear Energy, 2009, Vol. 36, p547-549, M. Sohrabour and A.O. Ezzati Monte Carlo Simulation and Benchmarking of Pulsed Neutron Experiments in Variable **Buckling BeO Systems**

Annals of Nuclear Energy, 2009, Vol. 36, p901-909, M. Shayesteh and M. Shahriari Calculation of Time-Dependent Neutronic Parameters using Monte Carlo Method

Equation of State Research

Conference Papers:

5th National Iranian and 4th International Chemical Engineering Conference, Shiraz University, Iran, April 24-7, 2000, M. Vafaie, A.A. Babaluo and A.A. Izadpanah A Modification of Patel and Teja Cubic Equation of State by Proposing a Proper Alpha and Beta Function

Journal Articles:

Journal of Physics G, 1993, Vol. 19, p1349-58, M. Modarres LOCV Calculations of Pressure in Nuclear Matter at Finite Temperature

Physical Review B, 1994, Vol. B49, p3049-60, *G. Parsafar and *E.A. Mason Universal Equation of State for Compressed Solids *Work done at the Department of Chemistry and Division of Engineering, Brown University, Providence, Rhode Island

Journal of Physics G, 1995, Vol. 21, p351-9, M. Modarres Neutron Matter Equation of State and Thermal Energy of Nuclear Matter

Journal of Physics G, 1997, Vol. 23, p923-37, M. Modarres Lowest-Order Constrained Variational Calculation for Hot Asymmetric Nuclear Matter

International Journal of Thermophysics, 1997, Vol. 18, p1027-34, A. Boushehri Thermophysical Properties from the Equation of State of Mason and Co-Workers

International Journal of Thermophysics, 1997, Vol. 18, p1329-34, N. Mehdipour and A. Boushehri

An Analytical Equation of State for Mercury

International Journal of Thermophysics, 1999, Vol. 20, p611-29, H. Eslami and A. Boushehri The Equation of State of Song and Mason Applied to Fluorine

Nuclear Science Journal, 2000, Vol. 37, p409-15, G.H. Bordbar Isentropic Equation of State of Asymmetrical Nuclear Matter

Physical Review C, 2000, Vol. C62, p044308-, M. Modarres and H.R. Moshfegh Lowest-Order Constrained Variational Calculation for beta-Stable Matter at Finite Temperatures

Fluid Phase Equilibria, 2003, Vol. 206, p27-39, M. Mohsen-Nia, H. Modarres, and G.A. Mansoori A Cubic Hard-Core Equation of State

Fluid Phase Equilibria, 2004, Vol. 215, p23-8, H. Eslami Corresponding-States Correlation for the Compressed Liquid Density of Metals

Fluid Phase Equilibria, 2004, Vol. 215, p277-81, H. Eslami, M. Farrokhina, N. Mehdipour, and A. Boushehri A Pertubed Hard-Sphere Equation of State for Refractory Metals

Nuclear Physics A, 2005, Vol. 749, p130c-133c, H.R. Moshfegh and M. Modarres The Properties of Hot Nuclear Matter in LOCV Formalism

Journal of Nuclear Materials, 2005, Vol. 336, p135-9, H. Eslami A Perturbed Hard-Sphere-Chain Equation of State for Liquid Metals

Journal of Non-Crystalline Solids, 2005, Vol. 351, p1333-7, N. Medhipour, A. Boushehri and H. Eslami Prediction of the Density of Molten Metals

The Chemical Society of Japan, 2006, Vol. 79, p67-74, M.M. Papari, D. Mohammad-Aghaie, J. Moghadasi and A. Boushehri

Semi-Emperically Based Assessment for Predicting Dilute Gas Transport Properties of F₂ and Ar-F₂ Fluids

Journal of Nuclear Materials, 2006, Vol. 348, p40-4, E.K. Goharshadi and A.R. Berenji A New Equation of State for Predicting the Thermodynamic Properties of Liquid Alkali Metals

High Temperature High Pressure, 2006, Vol. 36, p541-8, A. Maghari and M. Dargahi Calculation of Thermophysical Properties of Hydrgoen from the Statistical Mechanical Equation of State Journal of Phyics: Condensed Matter, 2006, Vol. 18, p4793-4800, M.H. Mousazadeh and M Ghanadi Marageh A Perturbed Lennard-Jones Chain Equation of State for Liquid Metals

International Journal of Modern Physics E, 2006, Vol. 15, p1127-39, H.R. Moshfegh Equation of State of Hot Nuclear and Neutron Matter: A Statistical Approach

Journal of Non-Crystaline Solids, 2006, Vol. 352, p3113-20, F. Sabzi, H. Eslami, and A. Boushehri Modified Perturbed Hard-Sphere Equation of State for Alkali Metal Alloys

Journal of Non-Crystalline Solids, 2007, Vol. 353, p435-9, M.H. Mousazadeh A Perturbed Lennard-Jones Chain Equation of State for Refractory Metals

Nashrieh Shimi Va Mohandesi Shimi Iran, 2007, Vol. 26, p95-101, E. Keshmirizadeh, H. Modares and A. Eliassi A New Equation for Compressibility Factor of Binary Hard Sphere Mixtures with Large Size Ratio

Shock Wave Related Research

Thesis:

M.R. Pournaki, Thesis (M.S.), Sharif University, Tehran, Iran, 1996 The Existence and Behavior of Viscous Structure for Plane Detonation Waves

Y. Farjami, Thesis (PhD), 1998, Sharif University, Tehran, Iran, 1998 On the Structure of Shock Wave in a Planar Motion of Plasma

A. Ghaseminia, Thesis (M.S.), Emam Hossein University, 2001 The Comparison Study of Long-Rod Penetration Models in Semi-Infinte Targets

A. Aghajani, Thesis (PhD), Sharif University, Tehran, Iran, 2001 Detonation and Ionizing Shock Waves in Magnetohydrodynamics

A.Razani, Thesis (PhD), Sharif University, Tehran, Iran 2002 Mathematical Model of Existance of Detonation Waves in Combustion Gas

Conference Papers:

International Conference on Powder Shaping and Compaction, Cavendish, UK, 1987, A. Darvizeh and S.T.S. Al-Hassani Shaping and Compaction of Powder by EDC

1st ISME Conference, Tehran, Iran, 1993, A. Darvizeh Explosive Welding of Multi-Layered Composite 1st Conference on Ceramics, University of Science and Technology, Tehran, Iran, 1993, A. Darvizeh and S.T.S. Al-Hassani Forming Ceramic – Metal Composites by EDC Compaction Process

2nd Annual ISME Conference, Sharif University, Tehran, Iran, 1994, A. Darvizeh, M. Darvizeh and C.B. Sharma Explosive Powder Compaction

16th International Colloquium on the Dynamics of Explosions and Reactive Systems,
Poland, 1997, *K. Mazaheri and **J.H. Lee
Effect of Hot Spots on the Initiation of Detonations
*Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran
**Department of Mechanical Engineering, McGill University, Montreal, Canada

4th International Conference on Combustion and Energy Utilization, Bangkok, Thailand, December 8-11, 1997, F. Rashidi and R. Rajabi Temperature Roles in the Limits of Detonation Waves

3rd ISME Conference, University of Science and Technology, Tehran, Iran, May 18-21, 1999, A. Darvizeh and R.K. Rahimi Prediction of Final State of Explosively Welded Components and Initial Parameters

Proceedings of the 31st Iranian Mathematics Conference, Tehran, Iran, 2000, M. Hesaaraki and A. Razani Travelling Waves for Weak and Strong Combustions

1st International Conference of the Iranian Aerospace Society, Sharif University, Tehran, Iran, December 30, 2000 – January 1, 2001, A. Darvizeh, M. Darvizeh and A. Yadgary Modelling of Explosive Cutting Process of Plates by Shaped Charges

5th International and 9th Annual Mechanical Engineering Conference, Guilan University, Rasht, Iran, May 27-29, 2001, A. Darvizeh and M. Darvizeh The Effect of Oxide Thickness on the High Rate EDC Compaction Process

18th International Colloquium on the Dynamics of Explosions and Reactive Systems, Washington, 2001, *K. Mazaheri, *S. Hashemi and **J.H. Lee Numerical Study of Detonation Instability for a Two-Step Kinetics Model *Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran **Department of Mechanical Engineering, McGill University, Montreal, Canada

International Conference of Mathematicians, Beijing, China, 2002, A. Razani The Existence of CJ Detonation for a Single Step Chemical Reaction Workshop on Differential Equation and its Application in Industry, Qazvin, Iran, 2003, A. Razani

Shock Strucutre of Weak and Strong Detonations

12th Annual Conference of the CFD Society of Canada, Ottawa, Canada, 2004, H.R. Anabrlooie, K. Mazaheri and M. Bidabadi ALE Simulation of Rayleigh-Taylor Instability

International Workshop on Nonlinear Partial Differential Equations, Institute for Studies in Theoretical Physics and Mathematics, Tehran, Iran, December 5-16, 2004, A. Razani Detonation Waves in Gas Dynamics

12th Symposium on Electromagnetic Launch Technology, May 25-8, 2005, K. Daneshjou, A. Kochakinejad and M. Rahimzadeh Numerical Study of Long Rods Penetration Depth in Semiinfinte Targets in Electromagnetic Launchers

Proceedings of the International Conference on Recent Advances in Mechanical and Materials Engineering, Kuala Lumpar, Malaysia, May 30-1, 2005, M. Farshchi, H. Mehrabian and A.R. Barkhordari Two-Dimensional Linear Stability Analysis of Pathological Detonations

VIII International Conference on Computational Plasticity, Barcelona, Spain, 2005, A.A. Akbari Mousavi and G. Joodaki Explosive Welding Simulation of Multilayer Tubes

1st International Conference on Manufacturing Engineering, Tehran, Iran, 2005, M. Zohoor, A. Mehdipoor, M.R. Khalili and N. Parvin Explosive Compaction of Tungsten Powder

Proceedings of the 2nd WSEAS International Conference on Applied and Theoretical Mechanics, venice, Italy, November 20-22, 2006, M. Zohoor, S.M.R. Khalili, N. parvin and A. Mehdipoor Numerical Simulation and Experimental Study of Explosive Compaction of Tungsten Powder

Journal Articles:

International Communications in Heat and Mass Transfer, 1997, Vol. 24, p27-38, S.M. Hosseinalipour and A.S. Mujumdar Flow and Thermal Characteristics of Steady Two Dimensional Confined Laminar Opposing Jets

Nonlinearity, 1998, Vol. 11, p797-821, Y. Farjami Structure of Shock Waves in Planar Motion of Plasma

Engineering Analysis with Boundary Elements, 2000, Vol. 24, p249-57, P. Hosseini-Tehrani and M.R. Eslami BEM Analysis of Thermal and Mechanical Shock in Two-Dimensional Finite Domain Considering Coupled Thermoelasticity Bulletin of the Australian Mathematical Society, 2001, Vol. 63, p485-96, M. Hesaaraki and A. Razani On the Existence of Chapman-Jouget Detonation Waves

Applicable Analysis, 2001, Vol. 77, p405-18, M. Hesaaraki and A. Razani Detonative Travelling Waves for Combustion

International Journal of Engineering, 2002, Vol. 15, Part B, p213-22, *K. Mazaheri, *A. Mahdavi and **J.H. Lee

*Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran **Department of Mechanical Engineering, McGill University, Montreal, Canada Numerical Study of Blast Initiation of Detonations, Using a Two-Step Chemical Kinetics Model

Bulletin of the Australian Mathematical Society, 2002, Vol. 66, p393-403, A. Razani Chapman-Jouget Detonation Profile for a Qualitative Model

Amirkabir, 2002, Vol. 13, p250-264, G. Liaghat, A. Darvizeh, A. Abd Elah and D. Javabvar

Analysis of Cone Forming Explosive of and a Comparison of Experimental FEM and Analytical Results

Modarres Technical and Engineering Journal, 2002, Vol. 6, p58-72, *K. Mazaheri and **J.H. Lee

*Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran **Department of Mechanical Engineering, McGill University, Montreal, Canada The Effect of Instability on the Direct Initiation of Detonation

Amirkabir, 2002, Vol. 13, p580-590, G. Liaghat, A. Darvizeh, A. Abd Elah and D. Javabvar

Effect of Blank Holder on the Control of Cone Wrinkling and Analytical – Experimental Study of it During Explosive Forming

Modelling and Simulation in Material Science Engineering, 2002, Vol. 10, p727-44, N. Nariman-Zadeh, A. Darizeh, M.E. Felezi and H. Gharababaei Polynomial Modelling of Explosive Compaction Process of Metallic Powders Using GMHD-Type Neural Networks and Singular Valuve Decomposition

Journal of Mathematical and Analytical Applications, 2002, Vol. 276, 868-81, A. Razani Weak and Strong Detonation Profiles for a Qualitative Model

International Journal of Engineering Science, 2002, Vol. 12, p1-24, G. Liaghat, A. Darvizeh, A. Abd Elah and D. Javabvar Analysis of Cone Wrinkling during Explosive Forming with Comparison to Experimental Results Bulletin of the Korean Chemical Society, 2003, Vol. 24, p19-22, M.H. Keshavarz and M. Oftadeh

Two New Correlations for Predicting Detonating Power of CHNO Explosives

Iranian Journal of Science and Technology, Transaction B: Engineering, 2003, Vol. 27, p551-562, N. Narimanzadeh, A. Darvizeh and H. Gharababaei Modelling and Prediction of Process Parameters in Explosive Welding of Plates using GMDH-Type Neural Network and Singular Value Decomposition

Iranian Journal of Science and Technology, Transaction B: Engineering, 2003, Vol. 27, p563-72, H. Ahmadi Kia and E. Shirani Diffraction of Moving Shock Waves over Stationary and Moving Bodies

Amrikabir, 2003, Vol. 14, p765-779, G. Liaghat, D. Javabvar, A. Darvizeh and A. Abd Elah

Analytical, Experimental and Numerical Study of Hoop Strain Profile and Required Charge Mass during Cone Explosive Forming

Journal of the Faculty of Engineering (University of Tehran), 2003, Vol. 37, p97-112, D. Javabvar, G. Liaghat, A. Darvizeh and A. Abd Elah Analytical, Experimental and Numerical Study of Vertical Velocity and Vertical Displacement Profiles, Required Pressure and Final Product Dimensions during Cone Explosive Forming

Modarres Technical and Engineering, 2003, Vol. 12, p89-106, A. Darvizeh, G. Liaghat and M.D. Nouri

Numerical Simulation of High Rate Deformation of Tube in Explosive Welding Process

Materials Chemistry and Physics, 2003, Vol. 82, p78-83, A. Ghanadzadeh and A. Darviseh

Shock Loading Effect on the Corrosion Properties of Low-Carbon Steel

Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2003, Vol. 217, p779-90, N. Nariman-Zadeh, A. Darvizeh and G.R. Ahmad-Zadeh

Hybrid Genetic Design of GMHD-Type Neural Network using Singular Value Decomposition for Modelling and Prediction of the Explosive Cutting Process

International Journal of Engineering Science, 2004, Vol. 15, p33-43, A. Darvizeh, G. Liaghat and M.D. Nouri

Two Dimensional FE Simulation of High Rate Deformation of Tube in Explosive Welding Process

Scientica Iranica, 2004, Vol. 11, p37-49, M. Farshchi and S. Hossainpour Simulation of Detonation Initiation in Straight and Baffled Channels

Scientica Iranica, 2004, Vol. 11, p292-301, *K. Mazaheri, *S.A. Hashemi and **J.H. Lee *Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran **Department of Mechanical Engineering, McGill University, Montreal, Canada Numerical Study of Detonation Instability for a Two-Step Kinetics Model

Modarres Technical and Engineering Journal, 2004, Vol. 17, p11-20, H.R. Anbarlooei and K. Mazaheri

Comparison of Steinberg and Johnson-Cook Constitutive Models in Simulation of Metals Behavior in the Presence of Shock Waves

Chemical Engineering and Technology, 2004, Vol. 20, p571-5, M. Rashidi Calculation of Equilibrium Compsoition in Combustion Products

Numerical Heat Transfer, Part B, 2004, Vol. 46, p497-504, M. Darbandi and V. Mokarizadeh A Modified Pressure-Based Algorithm to Solve Flow Fields with Shock and Expansion Waves

Journal of Applied Sciences, 2004, Vol. 4, p110-7, H. Ahmadikia and E. Shirani Numerical Simulation of Thermo-Chemical Non-Equilibrium Hypervelocity Flows

Journal of Mathematical and Analytical Applications, 2004, Vol. 293, 551-63, A. Razani Existence of Chapman-Jouget Detonation for a Viscous Combustion Model

Journal of Hazardous Materials, 2005, Vol. A119, p25-9, M.H. Keshavarz Simple Determination of Performance of Explosives Without using any Experimental Data

Michigan Mathematical Journal, 2005, Vol. 53, p647-64, A. Aghajnai and A. Razani Detonation Waves in a Transverse Magnetic Field

International Journal of Pressure Vessels and Piping, 2005, Vol. 82, p883-95, M. Mirzaei, K. Maazaheri and H. Biglari Analytical Modeling of the Elastic Structural Response of Tubes to Internal Detonation Loading

Finite Elements in Analysis and Design, 2005, Vol. 41, p1289-1308, S. Mohammadiand and A. Bebamzadeh A Coupled Gas-Solid Interaction Model for FE/DE Simulation of Explosion

Journal of Material Processing Technology, 2005, Vol. 164-165, p1561-1571, N. Narimanzadeh, A. Darvizeh, A. Jamili and A. Moeini Evolutionary Design of Generalized Polynomial Neural Networks for Modelling and Prediction of Explosive Forming Process WIT Transactions of Modelling and Simulation, 2005, Vol. 41, S.S. Nourazar, S.M. Hosseini, A. Ramazani and H.R. Deghanpour

Comparison between the Navier-Stokes and the Boltzmann Equations for the Simulation of an Axially Symmetric Compressible Flow with Shock Wave using the Monte-Carlo Method

Journal of the Mechanics and Physics of Solids, 2005, Vol. 53, p2501-28, A.A. Mousaviand and S.T.S. Al-Hassani Numerical and Experimental Studies of the Mechanism of the Wavy Interface Formations in Explosive/Impact Welding

Journal of Hazardous Materials, 2006, Vol. A131, p1-5, M.H. Keshavarz and A. Semnani The Simplest Method for Calculating Energy Output and Gurney Velocity of Explosives

Iranian Journal of Energetic Materials, 2006, Vol. 1, p3-14, D. Javabvar Determination of Required Charge Mass in the Explosive Forming of Plate by Impulse Method

Iranian Journal of Energetic Materials, 2006, Vol. 1, p15-21, D. Javabdar Analysis of Explosive Cone Forming by Considerating Product Wall Thickness Variation

Iranian Journal of Energetic Materials, 2006, Vol. 2, M. Zohour and A. Mehdipoor Comparative Study of Tungsten Obtained through Powder Metallurgy Technique and Explosive Compaction Method

Journal of the Faculty of Engineering (University of Tehran), 2006, Vol. 39, p785-791, H. Eskandari, M. Emami, M. Ghasemi and S. Borji The Study of Macrostructure and Interface in Aluminum/SiCp Composites Produced by Explosive Compaction Method

Eprint arXiv:astro-ph/0601480, 2006, M. Nejad-Asghar Simulation of Shock Waves by Smoothed Particle Hydrodynamics

Journal of Hazardous Materials, 2006, Vol. B133, p129-34, M.H. Keshavarz and H.R. Nazari

A Simple Method to Assess Detonation Temperature Without using any Experimental Data and Computer Code

Mechanical and Aerospace Engineering Journal, 2006, Vol. 2, p11-19, D. javabvard and B. Habibpour Analysis of Explosive Forming by an Energy Method

International Journal of Engineering Science, 2006, Vol. 17, p149-160, H. Bisadi, G. Lianghat, A. Darvizeh and M.H. Naeini

Analysis, Experimental Study of Explosive Welding and Forming of Inhomogenous Plates

Journal of the Chinese Institute of Engineers, 2006, Vol. 29, p145-51, M.H. Keshavarz and H.R. Pouretedal Calculation of Detonation Pressures of Condensed CHNOF Explosives

Mechanical and Aerospace Engineering Journal, 2007, Vol. 3, p23-32, Omrani A. Mahdipour, M. Zohour, S.M.R. Khalili and N. Parvin Theoretical Analysis of Explosive Compaction of Tungsten Powder

Mechanical and Aerospace Engineering Journal, 2007, Vol. 3, p99-107, M. Darvizeh, A. Darvizeh, A.R. Shaterzadeh and R. Ansari Thermal Buckling Analyis of Moderately Thick Composite Cylindrical Shells under Axisymmetric Thermal Loading

Surveys in Mathematics and its Applications, 2007, Vol. 2, p59-89, A. Razani Shock Waves in Gas Dynamics

Iranian Journal of Energetic Materials, 2007, Vol. 2, p59-69, H. Bisadi and M.H. Navaz Theoretical and Numerical Analysis of Nonhomogenous Plates Affected by Explosive Forming

Metalurgia, 2007, Vol. 13, p197-202, M. Zohoor and A. Mehdipoor Comparative Study on Particle Bonding of Tungsten Samples which were Produced by Powder Metallurgy Method and Underwater Explosive Compaction Technique

Applied Mathematics and Computation, 2007, Vol. 191, p560-70, A.E. Tabatabaei, E. Shakour and M. Dehghan Some Implicit Methods for the Numerical Solution of Burgers' Equation

Finite Elements in Analysis and Design, 2007, Vol. 43, p478-93, S. Mohammadiand and A. Pooladi Non-Uniform Isentropic Gas Flow Analysis of Explosion in Fractured Solid Media

Journal of Materials Processing Technology, 2007, Vol. 187-8, p512-6, S.A.A. Akbari Mousavi, M. Riahiand and A. Hagh Parast Experimental and Numerical Analyses of Explosive Free Forming

Materials and Design, 2008, Vol. 29, p1-19, S.A.A. Akbari Mousaviand and S.T.S. Al-Hassani

Finite Element Simulation of Explosively-Driven Plate Impact with Application to Explosive Welding

Journal of the Faculty of Engineering, 2008, Vol. 42, p97-106, G. Liaghat and Z.S. Azad Analysis of Die Less Explosive Forming of Bimetallic Circular Plates using "Energy Conservation Law"

Astrophysics and Space Science, 2008, Vol. 313, p425-30, M. Nejad-Asghar, A.R. Khesali and J. Soltani Artifical Viscosity in Simulation of Shock Waves by Smoothed Particle Hydrodynamics

Iranian Journal of Energetic Materials, 2008, Vol. 3, S.A.A. Akbari Mousavi, M. Nourozpour and A. Makki Investigations on the Explosive Welding Interface of Al-5083/Al-1250/ Sea Steel Three Layer Composite

Iranian Journal of Energetic Materials, 2008, Vol. 4, D. Javabvar, A. Alavinia and R. Alipour Investigation and Proffering a Suitable Numerical Method for Simulation of Non-Die Explosive Forming Problems

Iranian Journal of Energetic Materials, 2008, Vol. 4, H. Arabi and A. Mehdipoor Effect of Heat Treatment on the Mechanical Properties of Steel-Brass Explosive Bonding

Journal of Materials Processing Technology, 2009, Vol. 209, p3542-3549, M. Alitavloi and A. Darvizeh High Rate Electrical Discharge Compaction of Powders under Controlled Oxidation

Radiation Effects

Conference Papers:

Tenth Annual Review of Progress in Applied Computational Electromagnetics, Monterey, CA, 1994, R. Moini Comparison between LEMP and NEMP Induced Overvoltages in 33 kV Overhead Distribution Lines

Proceedings of the Iranian Conference on Electrical Engineering, ICEE95, Iran, 1995, B. Kordi, R. Moini and A. Abedi A Comparison between LEMP and NEMP Effects on an Overhead Line using Electric Field Integral Equation in Time Domain

Proceedings of the 10th Iranian Conference on Electrical Engineering, Tabriz, Iran, 2002, J. Jamali, R. Aghajafari, R. Moini and S.H.H. Sadeghi Time-Domain Analysis of Large Electromagnetic Pulse Simulators Proceedings of the 2002 International Symposium and Technical Exhibition on

Electromagnetic Compatability, China, 2002, J. Jamali, R. Aghajafari, R. Moini and S.H.H. Sadeghi Time-Domain Analysis of Electromagnetic Field Distribution around a Small-Size EMP Simulator IEEE Antennas and Propagation Society International Symposium, 2002, A. Foroozesh, M. Hakkak and E. Jedari An Improved Configuration of Symmetrical two-Coaxial Feeder for Use in Short Electromagnetic Pulse Measurements

IEEE Antennas and Propagation Society International Symposium, 2002, A.R. Attari, K. Barkeshli, F. Ndagijimana and J. Dansou Application of the Transmission Line Matrix Method to the Calculation of the Shielding Effectiveness for Metallic Enclosures

2003 IEEE International Conference on Field-Programmable Technology, December 15-17, 2003, G. Asadi, S.G. Miremadi, H.R. Zarandi and A. Ejlali Fault Injection into SRAM-Based FPGAs for the Analysis of SEU Effects

2003 IEEE International Conference on Field-Programmable Technology, December 15-17, 2003, G. Asadi, S.G. Miremadi, H.R. Zarandi and A. Ejlali Evaluation of Fault-Tolerant Designs Implemented on SRAM-Based FPGAs

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A. Pazirandeh, P. Maleki, and D. Sardani Induction Effect of an Electromagnetic Pulse on a Transmission Line

37th Annual IEEE/IFIP International Conference on Dependable Systems and Networks, 2007, Fazeli, Patooghy, S.G. Miremadi and A. Ejlali Feedback Redundancy: A Power Efficient SEU-Tolerant Latch Design for Deep Sub-Micron Technology

13th International Conference on Fusion Energy Reactor Materials, Nice, France, December 10-13, 2007, F. Borlouri, F. Dini, S. Khorasani and R. Amrollahi Simulation of Radiation Damage of Fusion Reactor Steel Chamber by 14MeV D-T Fusion Neutrons using Heavy Ions

Journal Articles:

Modarres Technical and Engineering Journal, 2002, Vol. 7, p77-94, J. Jamali, R. Aghajafari, R. Moini, and H. Sadeghi Analysis of Large Electromagnetic Pulse Simulators Using the Electric Field Integral Equation Method in Time Domain

Journal of Military Medicine, 2005, Vol. 7, p69-74, M. Sagafinia, D.A. maghsoudi, N. Nafissi and H.A. Mohebi Assessment of Pathogenic Effects of E-Bombs on Humans and Environment

Nuclear Explosion Related Research

Seismology:

Journal Articles:

Journal of the Earth and Space Physics, 2003, Vol. 29, p20-9, A. Javaherian, A. Sadidkhoy, M. Naggizadeh and M. Haghighi Yield Estimation of Pakistan Nuclear Explosion of May 28, 1998

Journal of the Earth and Space Physics, 2004, Vol. 30, p45-54, Movahed Rastegar, A. Javaherian and A. Sadidkhooy Yield Estimation of Semipalatinsk Nuclear Explosions by LG Phase on Seismographs of SRO, Mashad

Geosciences, 2004, Vol. 12, p32-9, M. Haghighi, M. Javaherian and A. Sadidkhoy Yield Estimation of Semipalatinsk Nuclear Explosions Using P-Waves from SRO, Mashad

Journal of Science (University of Tehran), 2005, Vol. 30, p217-28, M. Naghizadeh, A. Javaherian and A. Sadidkhoy Yield Estimation for Nuclear Explosions of Semipalatinsk Using Rayleigh Waves Recorded at SRO, Mashad

Nuclear Fallout:

Journal Articles:

Iranian Journal of Soil and Water Sciences, 2005, Vol. 19, p77-86, S. Shahoe and H. Khaledian Relation of Cs-137 Fallout with Annual Precipitation in Northwestern Iran

Plasma Physics

Documents/Reports:

A. Anvari, H. Azodi, etal.

Preliminary Design of Experiment ALVAND 1 and Low Beta Plasma Source December 1975

Shiraz University Publication Center, 1995, M.R. Eskandari Principle of Nuclear Fusion **Thesis:**

D. Sardari, Thesis (M.S.), July 1990, Sharif University of Technology X-Ray Tubes Study and Design

N. Shadanpour, Thesis (M.S.), September 1993 Description of Cyclotron-30 Particle Accelerator

K.E. Ranani, Thesis (M.S.), May 1996, Sharif University of Technology Feasability Study of Design and Fabrication of a Prototype X-Ray Tube

A.B. Khani, Thesis (M.S.), May 1996, Sharif University of Technology Feasability Study of Design and Fabrication of a Prototype X-Ray Tube

S.Z. Kalantari, Thesis (PhD), 1996, Shiraz University of Technology Effect of Spin Polarization, Tritium Concentration and Sticking Coefficients on Fusion Dynamics

B. Shokri, Thesis (PhD), September 1997, Russian Academy of Sciences, General Physics Institute Low-Frequency Oscillations and Relaxation Processes in Thin Film of Plasma-Like Media

A. Babazadeh, Thesis (M.S.), December 1997, Amir Kabir Technical University Measurement of Plasma Density and Temperature in Damavand Tokamak by Laser Scattering (Thompson)

M. Motevalli, Thesis (M.S.), 2002, Guilan University The Analytic Study of Effects of Density, Temperature and Tritium Concentration on Regeneration, Sticking and Muon Efficiency in Molecular Hydrogen and Plasma

E.B. Gavarti, Thesis (M.S.), 2003, Guilan University The Investigation of Physical Parameters Effects and Tritium Concentration on Energy Gain in central Spark Ignition Fusion Method

M. Kamran, Thesis (M.S.), 2003, Guilan University The Study of Fast Ignition Idea by Laser Beam, Accelerated Protons and Light Ionsin Inertial Fusion

K.R.S. Nejad, Thesis (M.S.), 2003, Shiraz University Muon Catalyzed Fusion Dynamics in Solid Heterogenous H/D/T Mixture and its Comparison with Solid Homogenous D/T System

N. Khoddam, Thesis (M.S.), 2004, Guilan University
The Study of Helium Accumulation Effect on Muon Catalyzed Fusion Kinetics in Deuterium-Tritium Mixtures
S. Khoshbinfar, Thesis (M.S.), 2005, Guilan University
The Study of Ignition Conditions and Energy Gain in Inertial Fusion Targets M. Tabatabaei, Thesis (M.S.), 2005, Guilan University The Analytical Method for Investigation of Fast Ignition Dynamics in Inertial Confinement Fusion

Z. Parang, Thesis (M.S.), 2005, Islamic Azad University Design and Installation of a Rogowski Coil for IR-T1 Tokamak

F.H. Rabi, Thesis (M.S.), 2005, Islamic Azad University Radiation from Non-Magnetized Plasma in Laser Plasma Interaction

M. Mahdavi-Daronkola, Thesis (M.S.), 2005, Shiraz University Calculation of Binding Energy for Muonic Molecules in the Hyper-Spherical Approach

M. Razavizade, Thesis (M.S.), 2007, Islamic Azad University Design of HCN Laser Interferometer for IT-T1 Tokamak

Amin Soltanian, Thesis (M.S.), 2007, University of Urmia Spin Polarization Effects on ³He Fuel Pellets

Conference Papers:

IEEE International Conference on Plasma Science, Troy, New York, 1977, H. Azodi Systematic End Loss Measurements on a Hot Linear Theta Pinch

IEEE International Conference on Plasma Science, Troy, New York, 1977, R. Aghevli Construction of ALVAND-2 Diagnostic Tokamak

Proceedings of the Seventh International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Innsbruck, Austria, 1978, H. Azodi End Plugging of a Hot Linear Theta Pinch

1989 International Conference on Plasma Physics, New Delhi, India, 1989, M. Choranneviss Stable Ion Beam Produced by RF Plasma

International Conference on Plasma Physics, ICPP, Innsbruck, Austria, June 29 – July 3, 1992, M. Ghrannevisse, M. Moradshahi and M. Avakian Neutral Beam in ALVAND IIC Tokamak

Proceedings of the 1993 Particle Accelerator Conference, Washington, DC, 1993, H. Ayvazian A New Design for an EMIS-CYCLOTRON System, for Direct Production of Gaseous PET Radioisotopes Gathering of Physics Students, Ferdowsi University of Mashad, Iran, 1995, S.Z. Kalantari Gain Calculation for the D-T in SCAT and CAT Modes with Bremsstrahlung Loss and Reheat Branches

Seventh International Conference on Emerging Nuclear Energy Systems, Chiba, Japan, 1995, M.R. Eskandari and S.Z. Kalanatri Kinetics of D-T Fusion by ICF in SCAT and CAT Modes

Iranian Annual Physics Conference, Urmia University, Iran, 1995, S.Z. Kalantari and M.R. Eskandari Neutron Production and Breeding of ²³⁹Pu and ³T in D-T and D-³He ICF

International Conference on Laser Interaction and Related Plasma Phenomena, Osaka, Japan, 1995, R. Khoda-Bakhsh Effect of Fusion Reaction Products Heating on the Volume Ignition of DT and D³He Fuel Pellets

IAEA Technical Committee on Research Using Small Tokamaks, Ahmedabad, India, 1995, R. Amrollahi DAMAVAND – An Iranian Tokamak with a Highly Elongated Plasma Cross-Section

European Physical Society Conference on Controlled Fusion and Plasma Physics, Kyiv, Ukraine, 1996, M. Ghoranneviss Modification of Plasma Confinement Using Resonant Helical Field in IR-T1 Tokamak

European Physical Society Conference on Controlled Fusion and Plasma Physics, Kyiv, Ukraine, 1996, M. Ghoranneviss SOFTX-Ray Tomography on IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss Plasma Confinement Improvement by RHF in IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss X-Ray Tomography on IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss Internal Disruptions and RHF in IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss Mirnov Oscillation Analysis in IR-T1 Tokamak 1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss The Impurity Transport Model in IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss Measurement of Edge Plasma Parameters in IR-T1 Tokamak by Double Langmiur Probe

International Conference on Plasma Physics and Controlled Nuclear Fusion, Montreal, Canada, 1996, R. Amrollahi and E. Farshi On the Possible Model of Gamma-Bursts in the Plasma Pinches

Iranian Annual Physics Conference, 1996, H. Golnabi Plasma Diagnostics of IR-T1 Tokamak

Iranian Annual Physics Conference, 1996, P. Khorshid and D. Dorranian Study of RHF and MHD Behavior by Local Electron Temperature of Plasma

International Conference on Plasma Physics and Controlled Nuclear Fusion, Montreal, Canada, 1996, R. Amrollahi Modelling an RLC Circuit for the Investigation of Disruption Instabilities in Tokamaks

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghorammevis, M. Masnavi and D. Dorranian

Single Channel HCN Laser Interferometer for Electron Density Measurement on the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghorammevis Low-Z Impurity Visible Line Radiations in the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghorammevis Design and Fabrication of New Version of Langmuir Double Circuit for the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghorammevis Beta-Limiting in the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghorammevis Engineering Aspects and Basic Parameters of the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghorannevis, M. Bakhtiary, M.R. Salami, A.K. Tafreshi, M.Z. Mehr, and J. Mirzaei Sawtooth Oscillation in the IR-T1 Tokamak with Tomographic Reconstructions

23rd International Conference In Phenomena of Ionized Gases, Toulouse, France, July 17-22, 1997, M. Masnavi and D. Dorranian Plasma Light Impurity Source of Radiation in the Iran Tokamak 1

Iranian Annual Physics Conference, Guilan University, August 25-28, 1997, M. Masnavi and D. Dorranian Interpretation of Hard Disruption Instability of the Iran Tokamak 1

The First Iran and Azerbayjan Gathering on Applied Physics, Tabriz University, Tabriz, Iran, September 13-14, 1997, D. Dorranian and M. Ghoranneviss Controlled Nuclear Fusion in Tokamaks

1998 IEEE International Conference on Plasma Science, Raleigh, NC, 1998, M. Ghoranneviss MHD Activity in Torus System and Helical Field

European Conference on Energy Dispersive X-Ray Spectroscopy, June 7-12, 1998, Bologna, Italy, M. Ghorannevis, H. Golnabi, M. Bakhtiari and P. Korshid X-Ray Tomography Method for Plasma Daignostic

Annual Iranian Physics Conference, Kerman, August 29 – September 1, 1998, A. Ghasemizad The Design of a Meso-Catalytic Hybrid Fusion Reactor with Electronuclear Neutrons and Spin Polarization

Annual Iranian Physics Conference, Kerman, August 29 – September 1, 1998, M.R. Eskandari and S. Dailami Stability Effects of D/T/H Fusion System Using Hurwitz Method

ITC-9. International Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Gifu, Japan, 1998, M. Ghorannesviss Characteristics of Low-q Discharge in the IR-T1

First Seminar in Plasma Physics and Nuclear Fusion, October 14-5, 1998, Tehran, Iran, M. Ghorannevis and H. Golnabi The Role of IR-T1 in Future Fusion Programs

First Seminar in Plasma Physics and Nuclear Fusion, October 14-5, 1998, Tehran, Iran, M. Ghorannevis and H. Golnabi A Study of Laser Potentials for Magnetically Confined Plasma Diagnostics

Iranian Annual Physics Conference, Kerman, Iran, 1998, M.R. Eskandari and S. Dailami Stability Studies of D/T/H Fusion Using Hurwitz Method

Iranian Annual Physics Conference, Kerman, Iran, 1998, M.R. Eskandari and M. Zahedifar Energy Gain Evaluation of Fusion-Fission Reactions of Heavy Nucleus

ITCPP '99: International Topical Conference on Plasma Physics – New Frontiers of Nonlinear Science, Faro, Portugal, 1999, Hakimi Pajouh Hydrodynamical Description of a Photon Gas in Magnetized Plasmas

Iranian Annual Physics Conference, Mazandaran University, Babolsar, Iran, August 29-31, 1999, D. Dorranian, M. Bakhtiari and M. Ghoraneviss Electron Temperature Profile in Iran Tolamak 1

Conference on the Applications of Physics and Nuclear Sciences in Medicine and Industry, Tehran, February 7, 2000, R. Amrollahi, F. Dini, and S. Khorasani Elongated Plasma Equilibrium in Damavand Tokamak

European Conference on Energy Dispersive X-Ray Spectrometry, June 18-23, 2000, Krakow, Poland, H. Golnabi X-Ray Diagnostics in Magnetically Confined Plasmas

Annual Physics Conference of Iran, Shahrood, August 27-31, 2000, M.A. Tafrshi, M. Farrahi, and E. Saeedzadeh Presentation of the First Iranian Plasma Focus Facility

Annual Physics Conference of Iran, Shahrood, August 27-31, 2000, M.R. Eskandri, N.H. Motlagh, and A. Hataf Studies on Muon Cycling Rates in Muon Catalyzed D-T Fusion Systems with Possible Four-Body Muonic Molecules Formation

IAEA Fusion Energy Conference, October 4-10, 2000, Sorrento, Italy, R. Amrollahi, H. Minoo, S. Khorasani, and F. Dini Optimization of Tokamak Poloidal Field Configuration by Genetic Algorithms

Proceedings of the Asian Conference on X-Ray and Related Techniques in Research and Industry, ACXRI'2000, November 20-2, 2000, Kuala Lumpur, Malaysia, H. Golnabi Application of X-Ray Methods in Plasma Diagnostics

International Toki Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Japan, December 5-8, 2000, A. Hojabri and M. Ghoranneviss MHD Activity and Disruption in Low-q(a) in Iran Tokamak (IR-T1)

International Toki Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Japan, December 5-8, 2000, *E. Farshi, **S. Goudarzi, ***R. Amrollahi, and ****K. Sato

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***K-N Toosi University of Technology, Tehran

****Kyushu University, Research Institute for Applied Mechanics, Kasuga, Fukoka, Japan

Kinetic and Collision Process Effects on Magnetic Structures in Predisruption Phase of Tokamak Plasmas

International Toki Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Japan, December 5-8, 2000, M. Ghoranneviss, M. Masnavi, M. Kashani Characteristics of Low-q Discharge in the IR-T1 (Iran-Tokammak-1)

International Toki Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Japan, December 5-8, 2000, M. Ghoranneviss, A. Hojabri, and D. Doranian Poloidal Magnetic Field Fluctuations in Low-q(a) in Iran Tokamak 1

Annual Physics Conference of Iran, Sabzevar, August 27-30, 2001, A.R. Esfandyari and S. Khorram Ion-Acoustic Solitons in a Plasma with Electron Beam

PLASMA-2001 – International Symposium on Research and Applications of Plasma, Warsaw, Poland, September 19-22, 2001, A.R. Babazadeh, H. Habibi, A. Nasiry, M.V. Roshan, and S.M. Sadat Kiai Experimental Study of X-Ray Radiation Yield in a Filippov-Type Plasma Focus Operated in Neon and Neon Krypton Mixture

PLASMA-2001 – International Symposium on Research and Applications of Plasma, Warsaw, Poland, September 19-22, 2001, S. Jhorasani, R. Amrollahi and F. Dini Simulation of Breakdown in Three-Electrode Sparkgaps

ICTP Autumn College on Plasma Physics, Trieste, Italy, 2001, F. Dini, S. Khorasani and R. Amrollahi

Variational Finite Element Method for Axisymmetric Magnetohydrodynamic Equilibrium

8th Scientific-Research Conference of Guilan University, Rasht, Iran, 2002, A. Ghasemizad

The Study of Energy Gain in a Laser Fusion System and the Effects of Different Parameters on it

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, S.M. Sadat Kiai, M. Lamehi, M. Emami, M.V. Roshan, A. Nasiry, H. Habibi, M. Memarzadeh, A. Banoushi, S. Goudarzi, and A.R. Babazadeh The Effect of Gas Admixture on the Enhancement of X-Ray Emission in Dena Plasma Focus

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, M. Emami, S. Sadat Kiai, A.R. Babazadeh, M. Roshan, A. Banoushi, S. Goudarzi, K. Asgari, M. Memarzadeh, H. Habibi and A. Nasiry PID Control in Damavand Tokamak

29th EPS Conference on Plasma Physics and Controlled Fusion, Montreux, June 17- 21, 2002, S. Khorasani, F. Dini, and R. Amrollahi New Algorithm for Time-Domain Simulation of Neo-Classical Transport

29th EPS Conference on Plasma Physics and Controlled Fusion, Montreux, June 17- 21, 2002, S. Khorasani, F. Dini, H. Minoo, and R. Amrollahi Radiation Spectrum of Imploding Target

29th EPS Conference on Plasma Physics and Controlled Fusion, Montreux, June 17- 21, 2002, A.R. Babazadeh, S.M. Sadat Kiai, M. Emami, and M.V. Roshan The Effect of Insert Anode Shape on the Characteristics of Neutron Emission in a Filippov-Type Plasma Focus

Technical Committee Meeting on Research using Small Fusion, Devices, Sao Paulo, Brazil, June 25–27, 2002, A.R. Babazadeh, A. Banoushi, M.V. Roshian, H. Habibi, A. Nasiry, M. Memarzadeh, M. Lamehi, and S.M. Sadat Kiai X-Ray and Neutron Emission Studies in a New Filippov Type Plasma Focus

Technical Committee Meeting on Research using Small Fusion, Devices, Sao Paulo, Brazil, June 25–27, 2002, M. Emami, A.R. Babazedah, M.V. Roshan, M. Memarzadeh, and H. Habibi

Digital Control of Plasma Position in Damavand Tokamak

IAEA Fusion Energy Conference, October 14-9, 2002, Lyon, France, *P. Khorshid, **L. Wang, and *M. Ghorannevis

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Limiter Biasing Effects on the Magnetohydrodynamic Behavior of the CT-6B Tokamak

IAEA Fusion Energy Conference, October 14-9, 2002, Lyon, France, *P. Khorshid, **L. Wang, ***M. Ghorannevis, **X.Z. Yang, and **C.H. Feng *Department of Physics, Islamic Azad University, Mashhad, Iran **Chinese Academy of Sciences, Institute of Physics, Beijing, China ***Islamic Azad University, Plasma Physics Research Centre, Tehran Effects of Viscosity on Magnetohydrodynamic Behavior during Limiter Biasing on the CT-6B Tokamak

IAEA Fusion Energy Conference, October 14-9, 2002, Lyon, France, S. Khorasani, H. Minoo, and R. Amrollahi On the X-Ray Radiation of Imploding Target

First IPM International Workshop on Plasma Dynamics, December 15-20, 2002, Qeshm, Iran, R. Amrollahi, S. Goudarzi, A.R. Babazadeh and N. Morshedian Study of Anisotropy Factor of Neutron Emission in DENA Plasma Focus

Physics Conference, 2002, Zanjan, Iran, S.M. Sadat Kiai, M. Emami, M.V. Roshan, M.M. Darian and A.R. Babazadeh Investigation of Krypton Admixture Effect Added to the Deuterium on the X-Ray and Neutron Emission in Dena Plasma Focus

10th Iranian Conference on Photonicss, 2003, M.H. Mahdieh Scale Length Effects on High Power Laser Pulse Absorption in Dense Plasma

Sixth International Conference on Computer Based Learning in Science, Cyprus, July 5-10, 2003, M.R. Eskandari Solving Nonlinear Dynamical Equations of Fusion Systems Using RUNG – KUTTA 45 and LSODE Computer Codes

30th EPS Conference on Controlled Fusion and Plasma Physics, St. Petersburg, Russia, July 7-11, 2003, S. Khorasani and R. Amrollahi Differential Transfer Matrix Analysis of Electromagnetic Waves in Non-Homogenous Magnetized Plasmas

Annual Physics Conference of Iran, August 25-8, 2003, M. Mahmoodi Darian, M. Ghorannevis and M.K. Salem Calculation of Z_{eff} with Energy Balance Equation in IR-Tl Tokamak

Annual Physics Conference of Iran, August 25-8, 2003, A.H. Sari, M. Ghorannevis, M.R. Hantehzadeh and M.R. Yousefi Fabrication and Description of a Cold Cathode Electron Gun

Annual Physics Conference of Iran, August 25-8, 2003, V. Siahpoush, C. Khorram, S. Sobhanian, and A.M. Hamzeh-Fafreshi Determination of the Optimum Pressure for Neutron Yield with D₂ in the PF Facility: DENA Annual Physics Conference of Iran, August 25-8, 2003, M.D. Mahmoodi, M. Lamehi, T. Talebi, M.A. Memarzadeh The Contamination Effect of Tokamak Walls on the Production of Runaway Electrons

Annual Physics Conference of Iran, August 25-8, 2003, R. Khoda-Bakhsh Thermonuclear Burn Performance of Volume-Ignited Hydrogen-Boron(11) Pellets

Annual Physics Conference of Iran, August 25-8, 2003, M.R. Eskandari and M. Mahdavi Wolfenstein-Gershtein Effect in Solid H/D

First Cairo Conference on Plasma Physics and Applications, October 11-15, 2003, Cairo, Egypt, R. Amrollahi and M. Farrahi Plasma Focus Research and Development in Iran

4th General Scientific Assembly of the Asian Plasma and Fusion Association on New Developments of Plasma Physics and Fusion Technology, October 13-6, 2003, Hangzhou, China, M. Borghei and J. Mahdavi Study of Special Behavior of Plasma in a New Design Current Interruptor

4th General Scientific Assembly of the Asian Plasma and Fusion Association on New Developments of Plasma Physics and Fusion Technology, October 13-6, 2003, Hangzhou, China, R. Amrollahi and M. Farrahi A Study on Plasma-Material Interaction in Plasma Focus Device

4th General Scientific Assembly of the Asian Plasma and Fusion Association on New Developments of Plasma Physics and Fusion Technology, October 13-6, 2003, Hangzhou, China, *P. Khorshid, ***A.H. Sari, **Long Wang, and ***M. Ghorannevis *Physics Department, Islamic Azad University, Mashhad, Iran **Institute of Physics, Chinese Academy of Sciences, Beijing, China ***Plasma Physics Research Center, Islamic Azad University, Tehran Investigation of Tokamak Plasmas as Non-Rigid Body Plasma

International Conference on Physics, January 6-9, 2004, Amirkabir University of Technology, Tehran, Iran, Z. Emami A Special Survey on Plasma Diagnostics in Tokamaks by Electromagnetic Waves

International Conference on Physics, January 6-9, 2004, Amirkabir University of Technology, Tehran, Iran, D. Sardari Selection of Anode-Cathode Distance in X-Ray Tube Manufacturing

International Conference on Physics, January 6-9, 2004, Amirkabir University of Technology, Tehran, Iran, B. Farokhi and F. Jafarppor Particle Simulation Code for Charge Variable Dusty Plasmas International Conference on Physics, January 6-9, 2004, Amirkabir University of Technology, Tehran, Iran, Z. Emami A Special Survey on Plasma Diagnostic in Tokamaks by Electromagnetic Waves

International Conference on Physics, January 6-9, 2004, Amirkabir University of Technology, Tehran, Iran, S. Sobhanian, S. Khorram, and L. Nouri An Equation for Temporal Charge Fluctuations of Dust Particles in a Plasma

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, M. Moradshahi, M. Avakian, A.A. Dabrizadeh, and S. Shayegan Ion Sources in Center Fusion Atomic Energy Organization of Iran

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, M. Emami, H. Rasouli, N. Morshedian, and V. Razazi Controlled Plasma in the Damavand Tokamak

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, V. Siahpoush, M.A. Mohammadi, S. Khorram, I. Shababi, J. Borhanian, S. Ashrafi, H. Naghshara, M. Moslehi-Fard, and S. Sobhanian Preliminary Results of Neutron Production of Sahand Plasma Focus Device

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A. Ghasemizad and M. Karman Calculation on Fuel Gain in Isochoric Central Spark Ignition Model of Internal Fusion

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, Z. Emami

A Special Survey on Plamsa Diagnostic in Tolamaks by Electromagnetic Waves

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, S.B. Sabzevari and N.N. Mofakham The Energy Transmission Coefficient for a Two Dimensional Inhomogenous Plasma

5th International Conference on Nuclear Option in Countries with Small and Medium Electricity Grids, Dubronik, Croatia, May 16-20, 2004, A. Ghasemi-Zad and S. Khoshbin-Far

The Central Spark Ignition, A Way Towards Clean Fuels in Nuclear Energy and Environment

Fourth International Workshop and School, Towards Fusion Energy – Plasma Physics, Diagnostics, Applications, Kudowa Zdroj, Poland, June 7-13, 2004, M.V. Roshan Plasma Materials' Interaction Studies in Plasma Focus Devices

31st EPS Conference on Plamsa Physics, London, UK, June 28 – July 2, 2004, H.R. Yousefi, G.R. Etaati and M. Ghorannevis Insulator Length Effects in Mather-Type Plasma Focus Device 31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, A. R. Babazadeh, S.M. Sadat Kiai and M. V. Roshan Effect of Sparkgap Breakdown and Current Buildup Speed on Fillipov-Type Plasma Focus Experiments

31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, H. Alireza, M. Ghoranneviss and F. Hajakbari Magnetohydrodynamic Instabilities in Iran-Tokamak 1 (IR-T1)

31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, *D. Dorranian, **M. Starodubtsev, ***H. Ito, ***N. Yugami, ***Y. Nishida and *M. Ghorannevis *Plasma Physics Research Institute, Islamic Azad University, Iran

Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod, Russia *Energy and Environmental Science, Utsunomiya University, Japan Generation of Short Pulse Radiation from Magnetized Wake in Gas Jet Plasma-Laser Interaction

31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, *A.H. Sari, *M. Ghorannevis, *H. Hora, R. Hopfl, *M.R. Hantehzadeh and F. Osman *Plasma Physics Research Center, Islamic Azad University, Tehran, Iran **Department of Theoretical Physics, University of New South Wales, Sydney, Australia ***Faculty of Electrical Engineering, University of Applied Science, Deggendorf, Germany

****School of Quantitiative Methods and Mathematics, University of Western Sydney, Penrith, Australia

Concave Cold Cathode Electron Gun using Obstructed Discharge

ICOPS 2004, June 28 – July 1, 2004, P. Khorshid, L. Wang, X.Z. Yang, and C.H. Feng Dependence of Edge Flutuations on the Disruption in Tokamak Plasmas

12th International Congress on Plasma Physics, October 25-9, 2004, Nice, France, A. Hojabri, M. Ghoranneviss, and F. Hajakbari
MHD Precursor to Disruption in Iran Tokamak 1

12th International Congress on Plasma Physics, October 25-9, 2004, Nice, France, A. Ghasemizad and M. Kamran The Concept of Isochoric Central Spark Ignition and its Fuel Gain in Inertial Fusion

XXXII Conference on Plasma Phycis and CF, Zvenigorod, Russia, February 14-8, 2005, *I.N. Kartashov, *M.V. Kuzelev and **N. Spehri Javan *Moscow State University, Moscow, Russia **Zanjan University, Zanjan, Iran On Theory of Oscillator of Contrary Wave with Relativistic Beam in Electrostatic Field of Pumping The 11th National Conference of Physicists and Nuclear Science Specialists, 2005, Bushehr Nuclear Power Plant, Bushehr, Iran, A. Ghasemizad and M. Kamran The Calculation of Accelerated Proton Beams in D-T Dense Plasma in Inertial Fusion Method

Proceedings of the Annual Physics Conference of Iran, February 22-23, 2005, Ferdowsi University, Mashhad, Iran, S.Z. Kalantari and M. Raeisi Simulation of Cascade Processes of Muonic Atoms in D/T Mixtures by Monte Carlo Methods

32nd EPS Conference on Plasma Physics, Tarragona, June 27 – July 1, 2005, A. Hojabri, M. Ghoranneviss, F. Hajakbari, K. Salem, and P. Khorshid Effect of Rotating Magnetic Helical Field on the Impurity Radiation and the Magnetic Island in Iran Tokamak 1 (IR-T1)

 32^{nd} EPS Conference on Plasma Physics, Tarragona, June 27 – July 1, 2005, M.K. Salem, M.M. Darian, M. Ghoranneviss, P. Khorshid, A. Hojabri, R. Arvin, and A. Talebi Taher The Influence of Resonance Helical Field on the Z_{eff} in IR-T1 Tokamak

32nd EPS Conference on Plasma Physics, Tarragona, June 27 – July 1, 2005, A.R. Babazadeh and S.M. Sadat Kiai Study of Gas Admixture Influences on the Pinch Dynamic in a 90 kJ Filippov Type Plasma Focus

International Conference on Nuclear Energy for New Europe, Portoroz, Slovenia, September 5-8, 2005, A. Ghasemizad, S. Khoshbinfar and A. Rubbers The Method of Self-Similar Solution for Energy Gain Scaling in ICF Targets

PLASMA-2005: International Conference on Research and Applications of Plasmas, Opole University, Poland, September 6-9, 2005, M.K. Salem, M. Ghoranneviss, and M. Borghei

Effect of Resonant Helical Field on Electron Thermal Conductivity Behavior in IR-T1 Tokamak

PLASMA-2005: International Conference on Research and Applications of Plasmas, Opole University, Poland, September 6-9, 2005, *H. Ghomi, **H. Taniguchi, **Y. Hayashi, *M. Ghorannevis, and **E. Hotta

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**Department of Energy Sciences, Tokyo Institute of Technology

Influence of an External Circuit on the Pinch Time in Argon-Filled Capillary Z-Pinch

International Conference on Superstrong Fields in Plasmas, Varenna, Italy, September 19-24, 2005, M.H. Mahdieh and M. Sirmahi Optical Absorption of Ultra-Short Laser Pulse in Multilayer Dense Plasmas 5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23, 2005, M. Harzchi, H. Farid Yousefi and N. Alinejad Simulation of Bootstrap Current by Hirshman Collisionless Model in Damavand Tokamak

16th IAEA Tecchnical Meeting on Research using Small Fusion Devices, Mexico City, Mexico, November 30 – December 2, 2005, D. Dorranian, M. Ghoranneviss, M.K. Salem, M.M. Darian, R. Arvin, A. Talebitaher and A. Abhari Recent Results of IR-T1 Tokamak

Nuclear Conference of Iran, 2006, Mashhad University, Mashhad, Iran, A. Ghasemizad and S. Khoshbinfar The Determining of Optimum Confinement Time for Fast Ignition in Inertial Confinement Fusion

Nuclear Conference of Iran, 2006, Mashhad University, Mashhad, Iran, A. Ghasemizad, M. Shahryari and S. Pooiandeh

The Analytical and Numerical Investigation of Burnup Process for Inertial Confinement Fusion Targets

Nuclear Conference of Iran, 2006, Mashhad University, Mashhad, Iran, A. Ghasemizad, M. Mahdavi and S.M. Motevalli

The Calculation of Intensity of X-Ray Transitions for Muonic Helium Ion in D-T Fusion Cycle

Third International Conference on Superstrong Fields in Plasmas, April 7, 2006, M.H. Mahdieh and M. Shirmahi Optical Absorption of Ultra-Short Laser Pulse in Multilayer Dense Plasmas

Proceedings of the Annual Physics Conference of Iran, August 28-31, 2006, Shahrood University, Shahrood, Iran, S.Z. Kalantari and M. Raeisi Calculation of Relative X-Ray Yields in Cascade Processes of Muonic Deuterium Atoms by Monte Carlo Method

Nuclear Energy for New Europe, September 18-21, 2006, Portoroz, Slovenia, A. Ghasemizad and S. Khoshbinfar Energy Scaling of Inertial Confinment Fusion Targets

International Conference on Nuclear Energy for New Europe, Portoroz, Slovenia, September 18-21, 2006, A. Ghasemizad and S. Khoshbinfar Energy Scaling of Inertial Confinement Fusion Targets

International Conference on Nuclear Energy for New Europe, Portoroz, Slovenia, September 18-21, 2006, A. Ghasemizad and M. Tabatatabai The Investigation of High Energy Gain Conditions for Fast Ignition in ICF International Conference on Ultra Intense Laser Interaction Sciences, 2007, Bordeaux, France, R. Fazeli, M. Shirmahi, M.H. Mahdieh and G. Talents X-Ray Yield Enhancement from Metal Nano-Targets Irradiated by Long Pulsed Laser

Nuclear Conference of Iran, Isfahan University, Isfahan, Iran, 2007, S. Pourhosseini and A. Ghasemizad The Analytical Study of Indirect Drive Energy in Inertial Confinement Fusion

Nuclear Conference of Iran, Isfahan University, Isfahan, Iran, 2007, V. Taherkhaani, A. Ghasemizad and G. Raeisali TheEnergy Gain of Thin Targets in Inertial Confinement Fusion

International Conference on Muon Catalyzed Fusion and Related Topics MCF-07), Dubna, Russia, June 18-21, 2007, S.Z. Kalantari and M. Raeisi Study of the Strong Interaction by Calculation of the K Series Yields in Cascade processes of Kaonic Hydrogen Atoms

International Conference on Muon Catalyzed Fusion and Related Topics (MCF-07), Dubna, Russia, June 18-21, 2007, S.Z. Kalantari and M. Raeisi Calculation of Muonic Atom Cascade Dynamics in D-T Mixtures

34th EPS Conference on Plasma Physics, Warsaw, Poland, July 2-6, 2007, P. Zobdeh, R. Sadighi-Bonabi and H. Afarideh An Analytical Model of Plasma Cavity for Producing of Quasi-Monoenergetic Electron in Intense Laser-Plasma Interaction

17th IAEA Technical Meeting on Research using Small Fusion Devices, Portugal, 2007,
P. Khorshid, M. Ghoranneviss, M. Razavi, M. Molaii, A. TalebiTaher, R. Arvin, S. Mohammadi and A. NikMohammadi
Designing a New-Function Coil for Measurement of Plasma Displacement in IR-T1
Tokamak

17th IAEA Technical Meeting on Research using Small Fusion Devices, Portugal, 2007, A. TabeliTaher, K. Tarkeshian, M. Ghoranneviss, M.K. Salemi, P. Khorshid, M. Jafarzadeh, A. NikMohammadi and S. Mohammadi Design and Fabrication of a New Feedback for Control of Plasma Column Horizontal Displacement in IR-T1 Tokamak

International Conference on Nuclear Energy for New Europe, Portoroz, Slovenia, September 10-3, 2007, A. Ghasemizad and S. Khoshbinfar Ignitable Island of Spark Parameters in Inertial Confinement Fusion

Nuclear Physics Conference, Yazd University, Yazd, Iran, 2008, L. Mollasoltani, M. Shahriari, A. Ghasemizad and H. Faghigi The Calculation of Power Sensitivity of SAD Subcritical System for Radius Variations of Spallation Target Nuclear Physics Conference, Yazd University, Yazd, Iran, 2008, S. Pourhosseini and A. Ghasemizad

The Investigation of Physical Parameters for Isochoric and Isobaric Models of Central Spark Ignition Idea in Inertial Confinement Fusion

Nuclear Physics Conference, Yazd University, Yazd, Iran, 2008, H. Zarringhalam and A. Ghasemizad

Hydrodynamic Instabilities in Inertial Confinement Fusion

18th IAEA Technical Meeting on Research using Small Fusion Devices, Ukraine, 2008, S. Mohammadi, M. Ghoranneviss, M.K. Salem, R. Arvin and M. Gheydi Comparing Plasma Parameters With and Without Feedback Control System in IR-T1 Tokamak

18th IAEA Technical Meeting on Research using Small Fusion Devices, Ukraine, 2008, M. Ghasemloo, M. Ghoranneviss and R. Shariatzadeh Design and Fabrication of a 2-D Array Magnetic Probe for Measurement of Magnetic Fields in the IR-T1 Tokamak

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, M. Azizi, M. Ghoranneviss, S. Mehranfar, B. Malekynia and R. Shariatzadeh Analysis of Langmuir Probe for Measurement of Plasma Edge Electron Temperature and Density in IR-T1 Tokamak

ENOC-2008, June 30 – July 4, 2008, Saint Petersburg, Russia, Ahmad Reza Sohrabi and Syed Masoud Jazayeri

On the Destruction of Islands of Stability in a Tokamak with Ergodic Magnetic Limiter using KAM Theory

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, A. Ghasemizadeh, H. Zarringhalam and L. Gholamzadeh

The Investigation of Rayleigh-Taylor Instability Growth Rate in Inertial Confinement Fusion

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, R. Shariatzadeh, M. Ghoranneviss, M. Emami, P. Khorshid and M.K. Salem Design and Fabrication of a Movable Langmuir Probe for Plasma Edge Paramters

Measurement in the IR-T1 Tokamak

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, N. Bolouli, M. Ghoranneviss, S.H. Mortazavi and A.H. Sari

Effect of Cathode Materials and Gas Species on Electron Beam Performance in a Plasma Cold Cathode Electron Source Proceedings of the 14th ICPP, Fukouka, Japan, 2008, A. Salarelahi, A. Rahimirad, M. Ghoranneviss, M. Emami, S. Vahedi, M.K. Salem, R. Arvin and S. Mohammadi Comparative Measurements of Plasma Position using Magnetic Probes and Camera in IR-T1 Tokamak

30th European Conference on Laser Interaction with Matter, Germany, 2008, *N. Azizi, *B. Malekynia, *M. Ghoranneviss, **H. Hora and ***G.H. Miley

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Updated Threshold for Laser Driven Block Ignition of Neutron Lean Fusion Energy

30th European Conference on Laser Interaction with Matter, Germany, 2008, *B. Malekynia, *M. Ghoranneviss, **H. Hora and G.H. Miley

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Department of Theoretical Physics, University of New South Wales, Sydney, Australia *Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois

Collective Alpha Particle Stopping for Reduction of the Threshold for Laser Fusion using Nonlinear Force Driven Plasma Blocks

22nd IAEA Fusion Energy Conference, October 13-18, 2008, Geneva, *H. Hora, **Y. Cang, **F. Osman, ***B. Malekynia, ***M. Ghorannevis, ****G. Miley and ****X. He

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****Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois

*****Institute of Applied Physics and Computational Mathematics, Beijing, China Modification of the Bobin-Chu Fusion Threshold for Laser Driven Block Ignition or for Spark Ignition

Interaction of Intense Energy Fluxes with Matter, March 1-6, 2009, Elbrus, Kabardino-Balkaria, Russia, *M. Kouhi, **M. Ghoraneviss, ***H. Hora, **B. Malekynia and **N. Azizi

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**IAU, PPRC, Tehran, Iran

***UNSW, Sydney, Australia

Alpha Particle Energy Absorption in Uncompressed DT for Laser Driven Fusion

Interaction of Intense Energy Fluxes with Matter, March 1-6, 2009, Elbrus, Kabardino-Balkaria, Russia, *N. Azizi, **B. Malekynia, ***H. Hora, ****G.H. Miley, **M. Ghorannevis and *****X. He

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**** Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois

*****Institute of Applied Physics and Computational Mathematics, Beijing, China Laser Nonlinear Force Driven Fusion Energy from HB(11) by Block Ignition

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, R. Sadighi-Bonabi

KrF Eximer Laser Generation of Plasma Blocks Accelerated by Nonlinear Forces for Fast Ignition

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, M.H. Mahdieh, M. Nikbakht, F. Rezaee and M. Sobhani Hydrodynamics of Laser Produced Ablation in Metal Thin Film Target by using Optical Opacity Measurement

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, M.H. Mahdieh, M. Nikbkaht and M. Samipour Two Dimensional Determination of Shock Wave Velocity in Atmospheric Air Produced by Nanosecond Pulses

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, Z. Reiazei, R. Sadighi-Bonabi, R. Rezaei-Nasirbad, S.K. Sadighi and H. Hora

Problems Realted to the Ultra Intense Ion Beams Blocks Generated by Relativistic Laser Pulses

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, E. Yazdani, H. Hora and R. Sadighi-Bonabi Laser Generation of Directed Plasma Blocks Accelerated by Nonlinear Forces

Journal Articles:

Nuclear Research, 1978, Vol. 3, p2-18, A. Torabi-Fard, M. Farahani, M. Ebrani, R. Rostami and F. Daghighian Performance of ALVAND 1 Capacitor Bank Applied Physics B, 1982, Vol. 29, p186-8, *S.M. Hamadani, *F. Soltanmoradi, *M.H. Marvasti, *F. Maddah, *H. Frasad, *K. Atighechi, *A.A. Yaraghchi, **Y. Kato, **K. Mina, ***I. Ursu, ***I. Apostol, ***D. Barbulescu, ***M. Dinescu, ***I.N. Mihailescu, ***M. Stoica, ***A.M. Prokhorov, ***V.P. Ageev, ***V.I. Konov and ***V.N. Tokarev *Laser Division, Nuclear Research Center, Atomic Energy Organization of Iran **Institute of Laser Engineering, Osaka University, Osaka, Japan ***P.N. Lebedev Physical Institute, Academy of Sciences, Moscow Laser Plasmas

International Journal of Infrared and Millimeter Waves, 1993, Vol. 14, p17-22, M. Ghorannvisse and M. Avakian Interferometry Measurement of Line Average Electron Density in ALVAND IIC Tokamak

Journal of Nuclear Materials, 1983, Vol. 113, p25-32, R. Alani Material Testing in a Linear Theta Pinch

Fusion Technology, 1993, Vol. 24, p28-36, R. Khoda-Bakhsh Effect of D-D Reactions on the Volume Ignition of Laser-Driven D-³He Fusion Pellets

Science Journal of Islamic Azad University, 1993, Vol. 3, D. Dorranian, M. jalilian and M. Ghoranneviss Fusion Step by Step

Nuclear Instruments and Methods in Physics Research, Section A, 1993, Vol. A330, p268-75, R. Khoda-Bakhsh Volume Ignition of DT Microspheres Work done at the Department of Theoretical Physics, University of New South Wales, Kensington, Australia, returned to Department of Physics, University of Urmia, Iran

Nuclear Science Journal, 1994, Vol. 31, p247-53, M.R. Eskandari Muon-Catalyzed Hybrid Reactor under Compression and Heat Conditions

Physics of Plasmas, 1994, Vol. 1, p3181-8, B. Maraghechi High-Frequency Waves in a Plasma Waveguide

Esteghlal Journal of Engineering, 1994, Vol. 15, M.A. Salehi Theory of Plasma Heating in Long Linear Theta Pinch Reactor by Axial Wave Damping

Iranian Journal of Science and Technology, 1995, Vol. 19, p173-82, M.R. Eskandari, Z. Kalantari, and A.A. Harms Gain Calculation for the D-T in SCAT and CAT Modes with Bremsstranhlung Loss and Reheat Branches Plasma Physics Reports, 1996, Vol. 22, p4-, *A.A. Rukhadze, *P.V. Ribak, *Ya.K. Khadataev and **B. Shokri *General Physics Institute, Lebedov Institute of the Russian Academy Of Sciences, Moscow, Russia **presently at Physics Department and Laser-Plasma Research Institute, Shahid Behesti University, Tehran, Iran Limiting Current of Electron Beam in Coaxial Systems

Laser and Particle Beams, 1996, Vol. 14, p149-56, *M.H. Mahdieh and **T.A. Hall *Work performed at Department of Physics, University of Essex, Essex, UK, currently at Department of Physics, Iran University of Science and Technology, Tehran, Iran ** Department of Physics, University of Essex, Essex, UK Optical Emissivity from a Laser-Driven Shock-Heated Dense Plasma

Nuclear Science Journal, 1996, Vol. 33, p163-73, Z. Kalantari Spin Polarization Effects on D-T and D-³He Inertial Confinement Fusion

Nuclear Science Journal, 1996, Vol. 33, p77-84, M. Eskandari Electron Screening Utilization Factor in D-T Fusion Reaction at Low Energies for Different Distributions

Materials and Manufacturing Science, 1997, Vol. 12, p29-35, M. Ghoranneviss, M. Moradshahi, M. Hosseinion, H. Golnabi and P. Korshid Design and Fabrication of DC Ion Beam for Heating of Plasma

Nuclear Science Journal, 1997, Vol. 34, p153-63, A. Ghasemi-zad The Energy Balance Study in a Meso-Catalytic Hybrid Reactor with Spin Polarization and Its Comparison with an Unpolarized System

Physics Letters A, 1997, Vol. 232, p115-8, *A.A. Rukhadze and **B. Shokri *General Physics Institute, Moscow ** presently at Physics Department and Laser-Plasma Research Institute, Shahid Behesti University, Tehran, Iran Oscillations of a Thin Magnetically Confined Plasma Layer

Journal of Plasma Physics, 1997, Vol. 58, p259-75, B. Sabzevari Mode Coupling in Space and Time-Varying Anisotropic Absorbing Plasmas

Journal of Physics D, 1997, *M.H. Mahdieh and **T.N. Hall *Work performed at Department of Physics, University of Essex, Essex, UK, currently at Department of Physics, Iran University of Science and Technology, Tehran, Iran ** Department of Physics, University of Essex, Essex, UK Optical Reflectivity of Dense Plasma Produced by Laser Driven Shock Waves

Physics of Plasmas, 1998, Vol. 5, p4070-8, S. Mirzanejhad Dispersion Characteristics of Waves in a Waveguide with an Annular Plasma Column Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 16, p45-9, M. Avakian and H. Minoo Preionization in Alvand IIC Tokamak

International Journal of Mass Spectroscopy, 1999, Vol. 188, p177-82, S.M. Sadat Kiai Confinement of Ions in a Radio Frequency Quadrupole Ion Trap Supplied with a Periodic Impulsional Potential

Journal of Plasma Physics, 1999, Vol. 62, p461-71, B. Sabzevari A General Formula for the Size of the Mode-Coupling Region

Physics of Plasmas, 1999, Vol. 6, p2373-9, H. Abbasi Influence of Particle Trapping on the Propagation of Ion Cyclotron Waves

Physics of Plasmas, 1999, Vol. 6, p3123-30, B. Maraghechi Raman Scattering in a Partially Filled Plasma Waveguide near Cyclotron Resonance

Physics of Plasmas, 1999, Vol. 6, p3450-54, B. Shokri and A.A. Rukhadze Quantum Surface Waves on a Thin Plasma Layer

Physics of Plasmas, 1999, Vol. 6, p4467-71, B. Shokri and A.A. Rukhazde Quantum Drift Waves

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 16, p45-9, M. Avakian, H. Minoo, S. Avakian, and J. Behroozynia Preionization in Alvand IIC Tokamak

Iranian Journal of Physics Research, 2000, Vol. 2, M.R. Eskandari and S.N. Hoseini Motlagh A Study of Muon Efficiency Dependency on Ion Density in Fusion of D-T and D-T-H Mixtures and Their Comparison

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 21, p16-27, R. Amrollahi, M. Avakian and S. Avakian Fourier Analysis of Experimental Results in ALVAND IIC Tokamak

Hyperfine Interactions, 2000, Vol. 128, p481-93, S.Z. Kalantari Efficiency of the Muon Catalyzed Fusion in Triple H/D/T Mixtures

Physics of Plasmas, 2000, Vol. 7, p2671-B. Shokri, H. Ghomi, and H. Latifi Dielectric Cherenekov Maser with a Magnetically Confined Plasma Column in a Dielectric Lined Slow-Wave Waveguide

Physics of Plasmas, 2000, Vol. 7, p2689-92, B. Shokri, H. Tavassoli, and H. Latifi Magnetic Field Effects on Cross Section of Electron Capture in Dense Plasmas Physics of Plasmas, 2000, Vol. 7, p3867-, B. Shokri Low-Frequency Waves and Relaxation Processes in Semibounded and Bounded Plasma-Like Media

Physics Letters A, 2001, Vol. 288, p319-22, B. Shokri, F. Sohbatzadeh and H. Tavassoli Response of a Nonlinear Magnetic Medium to an Incident Intense Magnetic Pulse

Nukleonika, 2001, Vol. 46 (Supplement), S85-7, *M.A. Tafreshi, *M. Farrahi, *M. Lamehi, *S. Goudarzi, *H. Habibi, *M. Memarzadeh, *V. Siahpoush, *E. Saeedzadeh, **V.P. Vinogradov, **V.I. Krauz, **V.A. Krivtsov, **M.A. Karakin, **V.V. Myalton and **V.P. Tykshaev *Plasma Physics Division, Atomic Energy Organization of Iran (AEOI) ** Plasmofo Ltd., Moscow, Russia Dena, a New PF Device

Chinese Physics Letters, 2001, Vol. 18, p393-5, *P. Khorshid, *W. Long, *Y. Xuanzong, *F. Chunhua, *Z. Pengyun, *Q. Xiazhi, **S. Rouhani, **M.F. Aghamir, **M. Ghorannevis, and ***M.R. Rahimitabar *Institute of Physics, Chinese Academy of Sciences, Beijing, China **Department of Physics, Islamic Azad University, Mashhad, Iran ***Institute for Studies in Theoretical Physics and Mathematics, Tehran Magnetohydrodynamic Activity during Limiter Biasing on the CT-6B Tokamak

Plasma Physics Reports, 2001, Vol. 27, p579-83, *E. Farshi, **R. Amrollahy, ***A.V. Bortniko, ***N.N. Brevnov, ***Yu. V. Gott, and ***V.A. Shurygin *Department of Advanced Engineering Science, Kyushu University, Kasuga, Japan **K-N Toosi University of Technology, Tehran, Iran ***Russian Research Centre Kurchatov Institute, Moscow, Russia Behavior of Hard X-Ray Emission in Discharges with Current Disruption in Damavand STVD Tokamak

Radiation Measurements, 2001, Vol. 34, p609-13, *F. Ziaie, *H. Afarideh, **S.M. Hadji-Saied, and ***S.A. Durran

*Nuclear Research Center for Agriculture and Medicine, Karaj, Iran; AmirKabir University of Technology, Physics Department, Tehran; Yazd Radiation Processing Center, Yazd, Iran

** Yazd Radiation Processing Center, Yazd, Iran

***School of Physics and Space Research, University of Birmingham, Birmingham, UK Investigation of Beam Uniformity in Industrial Electron Accelerator

Physics of Plasmas, 2001, Vol. 8, p788-90, B. Shokri and T. Vazifehshenas Thermal Motion Effect on the Filamentation of a Strongly Collisional Current-Driven Plasma Journal of Fusion Energy, 2002, Vol. 20, p45-, A.R. Babazedah, M.V. Roshan and S.M. Sadat Kiai Latest Results from the Damavand Tokamak Experiments

Physics of Plasmas, 2001, Vol. 8, p3902-, H. Tavassoli, F. Sohbatzadeh, H. latifi, and B. Shokri Magnetic Field Effects on Cross Section of Inelastic Electron-Ion Collisions

Iranian Journal of Physics Research, 2002, Vol. 3, A. Parvazian and J. Jafari Energy Gain of Ignitable Targets in Inertial Confinment Fusion (ICF)

International Journal of Mass Spectrometry, 2002, Vol. 213, p177-81, A.R. Babazadeh, M.V. Roshan and S.M. Sadat Kiai Effect of Magnetic Field on the Confinement of Ions in a Three-Dimensional Radio Frequency Quadrupole Trap

Nukleonika, 2002, Vol. 47, p123-5, A.R. Babazadeh, S.M.S. Kaiai and M.V. Roshan Experimental Study of X-Ray Emission Yield in a Filippov-Type Plasma Focus Operating in Neon and Neon-Krypton Mixture

International Journal of Engineering Science (Tehran), 2002, Vol. 13, p31-40, R. Khoda-Bakhsh Deuterium-Tritium Fusion with Different Tritium Content

International Journal of Engineering Science (Tehran), 2002, Vol. 13, p49-65, M. Haeri, M. Emami, and M. Ofoghi Plasma in Damavand Tokamak: Modeling and Control

Brazilian Journal of Physics, 2002, Vol. 32, p89-93, A.R. Babazadeh, M.V. Roshan, H. Habibi, A. Nasiry, M. Memarzadeh, A. Banoushi, M. Lamehi and S.M. Sadat Kiai X-Ray and Neutorn Emission Studies in a New Filippov Type Plasma Focus

Brazilian Journal of Physics, 2002, Vol. 32, p-, M. Emami, A.R. Babazadeh, M.V. Roshan, M. Memarzadeh, and H. Habibi Digital Control of Plasma Position in Damavand Tokamak

Scientia Iranica, 2002, Vol. 9, p116-24, S. Khorasani and H. Golnabi FEM Simulation of Two and Three-Electrode Spark Gap Discharges

Scientia Iranica, 2002, Vol. 9, p153-6, A. Hojabri, M. Ghoranneviss and A. Anvari Mode Locking in the Iran-Tokamak (IR-T1)

Czechoslovak Journal of Physics, 2002, Vol. 52, p476-80, J. Mahmoodi Plasma Effects of Grain Dust Alignment

Hyperfine Interactions, 2002, Vol. 142, p627-42, S.Z. Kalantari and V. Tahani Investigation of Epithermal Molecular Formation and Hyperfine Interaction Effects on Kinetics of uCF

Iranian Journal of Physics Research, 2002, Vol. 3, p89-99, A. Parvazian and J. Jafari Energy Gain of Ignitable Targets in Inertial Confinement of Fusion

Physica Scripta, 2002, Vol. 65, p248-51, A.R. Babazadeh, M.V. Roshan and S.M.S. Kiai Experimental Investigations of X-Ray Emission in a New Filippov-Type Plasma Focus

Physics Letters A, 2002, Vol. 300, p432-6, B. Shokri and B. Jazi Filamentation of a Subsonic Plasma Jet by Surface Waves

Journal of Fusion Energy, 2002, Vol. 21, p53-, M.A. Tafreshi and E. Saeedzadeh Magnetic Probe Measurements in a Filippov-Type PF Facility

Physics of Plasmas, 2002, Vol. 9, p701-, B. Shokri Kinetic Theory of Surface Waves in Plasma Jets

Physics of Plasmas, 2002, Vol. 9, p2885-, B. Shokri Screening in Anisotropic Plasmas

Physics of Plasmas, 2002, Vol. 9, p3355-, B. Shokri, S.M. Khorashadi, and M. Dastmalchi Ion-Acoustic Filamentation of Current-Driven Plasma

Journal of Fusion Energy, 2003, Vol. 22, p79-82, M.V. Roshan and M. Mahmoodi Darian Experimental Study of Plasma Materials Interaction in Plasma Focus "Dena"

Nuclear Fusion, 2003, Vol. 43, p210-5, M. Ghoranneviss MHD Activity at Low q(a) in Iran Tokamak 1 (IR-T1)

Physics Letters A, 2003, Vol. 314, p456-63, B. Shorki and B. Jazi Ion-Acoustic Modulation of a Magnetized Plasma Jet by Surface Waves

Journal of Physics D, 2003, Vol. 36, p1188-91, *M.H. Mahdieh and **T.N. Hall * Department of Physics, Iran University of Science and Technology, Tehran, Iran ** Department of Physics, University of Essex, Essex, UK Real Time Calculation of Shock Waves Driven by Sub-Nanosecond Laser Pulses Physical Review E, 2003, Vol. 67, p026704-026704.16, *F. Kazeminezhad, **S. Kuhn, and ***A. Tavakoli *Consultant **Institut fuer Theoretische Physik, Universitaet Innsbruk, Innsbruk, Austria ***Institute for Studies in Theoretical Physics and Mathematics, Tehran Vlasov Model Using Kinetic Phase Point Trajectories

Physics Letters A, 2003, Vol. 318, p415-24, B. Shorki and B. Jazi Azimuthal Electromagnetic Surface Waves on an Annular Magnetized Plasma

Iranian Journal of Science and Technology, 2003, Vol. 27, p429-38, V. Siahpoush, S. Sobhanian, M.A. Tafreshi, and M. Lamehi A Model for Plasma Evolution in Filipov Type Plasma Focus Facilities

International Journal of Quantum Chemistry, 2003, Vol. 93, p377-83, M.R. Eskandari and F. Faghihi Minimum Binding Energy and Size of the Doubly Muonic T₃ Molecule

Journal of Physics D, 2003, Vol. 36, p1188-91, *M.H. Mahdieh and **T.A. Hall *Department of Physics, Iran University of Science and Technology, Tehran, Iran **Department of Physics, University of Essex, Essex, UK Real Temperature Calculation of Shock Wave Driven by Sub-Nanosecond Laser Pulses

Physics of Plasmas, 2003, Vol. 10, p3471-, B. Shokri and S.K. Alavi Stability of Surface Dust Acoustic Waves in the Presence of Nonspherical and Rotating Charged Dust Grains

Scientia Iranica, 2003, Vol. 10, p419-25, F. Dini, S. Khorasani, and R. Amrollahi Variational Finite Element Method for Axisymmetric Magneto-Hydrodynamic Equilibrium

Physics of Plasmas, 2003, Vol. 10, p4153-, B. Shokri and A.R. Niknam Discharge Plasma Instabilities in the Presence of an External Constant Electric Field

Physics of Plasmas, 2003, Vol. 10, p4622-, B. Shokri and B. Jazi Excitation of Nonreciprocal Electromagnetic Surface Waves in Semibounded Magnetized Plasmas by an Electron Beam

Arvix.org, 2004, A. Ghasemizad and M. Kamran The Concept of Isochoric Central Spark Ignition and its Fuel Gain in Inertial Fusion

Pramana, 2004, Vol. 62, p53-60, M. Emami, A.R. Babazadeh, and H. Rasouli Optimization and Performance of a High-Speed Plasma Position Digital Control System

Physics Letters A, 2004, Vol. 320, p417-22, B. Shokri and S.M. Khorashadizadeh Filamentation of a Rotating Electron Beam in a Magnetized Plasma

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, p1-8, A. Solimanian and K. Derikum Establishment of a Reference High-Energy Electron Beam

Physics Letters A, 2004, Vol. 329, p362-8, *B. Shokri, **M. Ghorbanalilu, and ***A.A. Rukhadze

*Physics Department and Laser Research Institute of Shahid Beheshti University,

Tehran; Institute for Studies in Theoretical Physics and Mathematics, Tehran;

**Department of Electrical and Computer Engineering, University of Alberta, Edmonton, Canada

** Physics Department and Laser Research Institute of Shahid Beheshti University, Tehran; Institute for Studies in Theoretical Physics and Mathematics, Tehran ***Institute of General Physics, Moscow

Low-Frequency Instability of Plasmas Produced by Linearly Polarized Microwave Pulsed Fields

Physics Letters A, 2004, Vol. 331, p77-83, D. Dorranian, M. Ghoranneviss, M. Starodubtsev, H. Ito and N. Yugami

Generation of Short Pulse Radiation from Magnetized Wake in Gas-Jet Plasma and Laser Interaction

Iranian Journal of Science and technology, Transaction A, 2004, Vol. 28, p197-204, F. Dini, S. Khorasani and R. Amrollahi Green Function of Axisymmetric Magnetostatics

Journal of Plasma Fusion Research, 2004, Vol. 6, p638-41, *K. Pejman, **Wang Long, *G. Mahmoud, ***F.M. Aghamir, Yang Xuanzong, and **Feng Chunhua *Department of Physics, Islamic Azad University, Mashhad, Iran **Institute of Physics, Chinese Academy of Sciences, Beijing, China ***Department of Physics, University of Tehran, Tehran The Study of Fluctuations at the Edge of CT-6B Tokamak

Journal of Plasma Fusion Research, 2004, Vol. 6, p735-7, *A.H. Sari, *M. Ghoranneviss, **H. Hora, ***F. Osman, *R. Hopel, *M.R. Hantehzadeh and ****N. Bolouki *Plasma Research Center, Science and Engineering Research Campus of Islamic Azad University, Tehran **Faculty of Electrical Engineering, University of Applied Science, Deggendorf, Germany ***Department of Theoretical Physics, University of New South Wales, Sydney, Australia ****School of Quant. Methods and Mathematical Sciences, University of Western Sydney, Penrith, Australia Fabrication of a 50 keV Cold Cathode Electron Gun Physics of Plasmas, 2004, Vol. 11, p2989-, B. Shokri Wiebel Instability of Microwave Gas Discharge in Strong Linear and Circular Pulsed Fields

Plasma Physics and Controlled Fusion, 2004, Vol. 46, p507-18, B. Jazi Dispersion Relation of Azimuthal Electromagnetic Surface Waves on a Magnetized Plasma Column in a Dielectric Lined Slow-Wave Waveguide

Measurement Science and Technology, 2004, Vl. 15, p1000-04, M. Emami and H. Rasouli Plasma Electron Density Measurement by a Digital Signal Processor Based Millimetre-Wave Interferometer

Physics of Plasmas, 2004, Vol. 11, p1689-94, B. Shokri and S.M. Khorashadizadeh Acceleration of Positrons by a Relativistic Electron Beam

Physics of Plasmas, 2004, Vol. 11, p5162-, B. Shokri and M. Ghorbanalilu Low-Frequency Instability of Circularly Polarized Microwave-Pulsed-Field-Produced Plasmas

Physics of Plasmas, 2004, Vol. 11, p5398-, B. Shokri and M. Ghorbanalilu Relativistic Effects on the Weibel Instability of Circularly Polarized Microwave Produced Plasmas

Journal of Sciences, Islamic Azad University, 2004, Vol. 14, p4288-, *H. Hora, **A.H. Sari, **M. Ghorannevis

*Department of Theoretical Physics, University of New South Wales, Sydney, Australia **Islamic Azad University, Tehran, Iran

Laser beam Smoothing for Suppression of Anomalies of Laser-Plasma Interaction for ICF

International Journal of Mass Spectrometry, 2005, Vol. 247, p61-6, S.M. Sadat Kiai, M. Baradaran, S. Adlparvar, M.M.A. Khalaj, A. Doroudi, S. Nouri, A.A. Shojai, M. Abdollahzadeh, F. Abbasi, M.V. Roshan, and A.R. Babazadeh Impulsional Mode Operation for a Paul Ion Trap

Plasma Physics and Controlled Fusion, 2005, Vol. 47, p37-47, B. Jazi Excitation of Electromagnetic Surface Waves by an Annular Electron Beam in a Plasma Waveguide with a Dielectric Rod and a Magnetized Plasma Column

Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, Vol. 95, p61-9, F. Shekh-Momeni and J. Samimi Effective Compton Cross Section in Non-Degenerate High-Temperature Media Czechoslovak Journal of Physics, 2005, Vol. 55, p45-, S. Goudarzi, S.M. Sadat Kiai, N. Morshedian and A. Nasiri Experimental Study of the Neutron Emission Mechanisms in a Filippov-Tye Plasma Focus Device

Physics Letters A, 2005, Vol. 336, p47-89, B. Shokri and B. Jazi Spatial Growth Rate and Field Profiles of Symmetric Mode in a Rod Dielectric Cerenkov Maser with a Magnetized Plasma Column

Physics Scripta, 2005, Vol. T116, p110-2, H. Abbasi and H. Hakimi Pajouh Beyond the Paraxial Approximation in Laser Plasma Interaction

Physics Letters A, 2005, Vol. 342, p341-6, B. Shokri, and M. Ghorbanalilu Magnetic Field Effect on a Plasma Produced by Circularly Polarized Pulsed Microwave Fields

Iranian Journal of Science and Technology, 2005, Vol. 29, p421-31, A. Ghasemizad, M.R. Eskandari, S. Khoshbinafar, and M. Kamran On the Investigation of Spark Formation Conditions and Energy Gain in Inertial Confinement Fusion

Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, Vol. 95, p61-9, F. Shekh-Momemi and J. Samimi Effective Compton Cross Section in Non-Degenerate High-Temperature Media

Plasma Physics and Controlled Fusion, 2005, Vol. 47, V. Siahpoush, M.A. Tafreshi, S. Sobhanian, and S. Khorram Adaptation of Sing Lee's Model to the Filippov Type Plasma Focus Geometry

Physics of Plasmas, 2005, Vol. 12, p33104-110, B. Shokri and B. Jazi Time Growth of Symmetric TM Mode of a Rod Dielectric Cerenkov Plasma Maser

Physics Letters A, 2005, Vol. 344, p447-50, B. Shokri and S.M. Khorashadizadeh Dissipative Instability of a Highly Relativistic Electron Beam through the Excitation of Surface Waves on a Conducting Medium

Physics of Plasmas, 2005, Vol. 12, p43506-1-5, B. Shokri, M. Ghorbanalilu Parametric Instability of Plasmas Produced by Linearly Polarized Microwave Pulsed Fields

Laser and Particle Beams, 2005, Vol. 23, p583-96, *D. Dorranian, *M. Ghoranneviss, **M. Starodubtsev, ***N. Yugami, and ***Y. Nishida *Plasma Physics Research Center, Islamic Azad University, Tehran, Iran **Institute of Applied Physics RAS, Nizhny Novgorod, Russia ***Graduate School of Engineering, Utsunomiya University, Tochigi, Japan Microwave Emission from TW-100 fs Laser Irradiation of Gas Jet Iranian Journal of Science and Technology, Transaction A, 2005, Vol. 29, p1-11, A. Ghasemizad, M.R. Eskandari, S. Khoshbinfar and M. Kamran On the Investigation of Spark Formation Conditions and Energy Gain in Inretial Confinment Fusion

Iranian Journal of Physics Research, 2005, Vol. 4, p301-7, M. Hedayati, M.A. Tafreshi and M. Lamehi Simulation of MHD Shock Waves in Plasma Focus Facilities

Physics of Plasmas, 2005, Vol. 12, p62110-1-3, B. Shokri and A.R. Niknam Nonlinear Dynamic of Low-Frequency Buneman Instability of a Current-Driven Plasma

Physics of Plasmas, 2005, Vol. 12, p62114-1-5, B. Shokri and S.K. Alavi Spin Waves in Dusty Plasmas

Physics of Plasmas, 2005, Vol. 12, p72107-1-5, B. Shokri and A.R. Niknam Kinetic Theory of Low-Frequency Instability of Discharge Plasma

Physics of Plasmas, 2005, Vol. 12, p82101-4, B. Shokri and S.M. Khorashadizadeh Excitation of the Half-Cyclotron Waves by the Counterstreaming Electron-Positron Beams

Physics Letters A, 2006, Vol. 352, p520-3, B. Shokri and S.M. Khorashadizadeh Thermal Effects in the Dissipative Instability of the Electron Beam-Plasma Systems

Iranian Journal of Physics Research, 2006, Vol. 5, p197-212, A. Parvazian and A. Okhovat

Neutron, Electron, and Photon Transport in Inertial Confinement Fusion Target in Direct and Fast Ignition

Journal of Plasma Physics, 2006, Vol. 72, p71-83, N. Nassiri-Mofakham and B. Sabzevari Mode Conversion in Plasmas with Two-Dimensional Inhomogeneites

Journal of Plasma Physics, 2006, Vol. 72, p1-12, N. Nassiri-Mofakham and A. Parvazian A Two-Dimensional Analysis of Mode Conversion at a Resonance Layer with High-Magnetic Field Side Reflection

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 3, p39-43, M.A. Tafreshi and Y. Sadeghi Application of the Fourier and Wavelet Transforms in Noise Reduction of the Out of the Ordinary Data Physics Letters A, 2006, Vol. 355, p122-8, *B. Farokhi, *I. Kourakis, **P.K. Shukla *Department of Physics, Bu-Ali Sina University, Hamadan, Iran **Institut fur Theoretische Physik IV, Fakultat fur Physik und Astronomie, Ruhr-Universitat Bochum, Bochum, Germany Dust Lattice Wave Dispersion Relations in Two-Dimensional Heaxgonal Crystals Including the Effect of Dust Charge Polarization

Journal of Physics D, 2006, Vol. 39, p135-47, M.H. Mahdieh and A. Gavili Hydrodymanics of a Non-Uniform Super-Gaussian Ion Plasma Produced by Pulsed Lasers in an Electrostatic Field

Journal of Plasma Fusion Research, 2006, Vol. 7, p307-309, M. Ghoranneviss, K. Yasserian, A. Anvari, H. Pourbalasi, A. Hojabri and H. Hosseini Design and Fabrication of a DC Cylindrical Magnetron Sputtering Device

Iranian Journal of Physics Research, 2006, Vol. 5, A. Parvazian and A. Okhovat Neutron, Electron and Photon Transport in ICF Targets in Direct and Fast Ignition

Journal of Plasma Physics, 2006, Vol. 72, p. 351-8, H. Alinejad, S. Sobhanian, and J. Mahmood

Nonlinear Ion-Acoustic Waves in Weak Magnetic Fields with Vortex-Like Electron Distribution

Physics Letters A, 2006, Vol. 357, p66-71, M. Mahmoudi, M. Sahri, and H. Tajalli Subluminal and Superluminal Light Propagation via Interference of Incoherent Pump Fields

Physics Letters A, 2006, Vol. 358, p149-53, B. Jazi, B. Khoshnevisan, and H. Zeynali The Theoretical Simulation of Magnetized Electron Beam Effects on Radially Polarized of an Annular Cylindrical Piezoelectric Crystal

Physics Letters A, 2006, Vol. 359, p366-72, *M. Amniat-Talab, *R. Khoda-Bakhsh, and **S. Guerin

*Physics Department, Facility of Sciences, Urmia University, Urmia, Iran **Laboratoire de Physique, UMR CNRS, Universitie de Buorgogne, Dijon, France Quantum State Engineering in a Cavity by Stark Chirped Rapid Adiabatic Passage

Czechoslovak Journal of Physics, 2006, Vol. 56, Suppl. B, B80-86, M. Harzchi, N. Alinejad, and H. Farid Yousefi Study of the Plasma Equilibrium in Damavand Tokamak via Numerical Solution of the Grad-Shafranov Equation

Plasma Physics and Controlled Fusion, 2006, Vol. 48, p1105-23, B. Jazi Azimuthal Electromagnetic Surface Waves in a Rod Dielectric Magnetized Plasma Waveguide and Their Excitation by an Annular Relativistic Rotating Electron Beam Physics of Plasmas, 2006, Vol. 13, p11310-, B. Shokri and A.R. Nikman Nonlinear Structure of the Electromagnetic Waves in Underdense Plasmas

Physics of Plasmas, 2006, Vol. 13, p11311-3, V. Sazegari and B. Shokri Ponderomotive Acceleration of Injected Electrons in Tenuous Plasmas by Intense Laser Beams

Physics of Plasmas, 2006, Vol. 13, p22102-6, M. Ghorbanalilu and B. Shokri Resonance Parametric Instability in Microwave Gas Discharges Produced by Circular Polarization Fields

Physics of Plasmas, 2006, Vol. 13, p33102-4, V. Sazegari, M. Mirzaie, and B. Shokri Ponderomotive Acceleration of Electrons in the Interaction of Arbitrary Polarized Laser Pulse with a Tenuous Plasma

Physics of Plasmas, 2006, Vol. 13, p52116-52121, B. Shokri and S.M. Khorashadizadeh The Excitation of Extraordinary and Ordinary Waves in a Magnetized Plasma Medium by a Rotating Beam

Physics of Plasmas, 2006, Vol. 13, p11310-5, B. Shokri and A.R. Niknam Nonlinear Structure of the Electromagnetic Waves in Underdense Plasmas

Journal of Fusion Energy, 2006, Vol. 25, p181-5, M. Abdollahzadeh, S.M. Sadat Kiai, G.R. Etaati, and A.R. Babazadeh Some Studies on the Time Resolved Energy Spectrum Reconstruction for Pulsed Neutron Source

IEEE Transactions on Plasma Science, 2006, Vol. 34, p2568-71, M.V. Roshan, A.R. Babazadeh and S.M. Sadat Kiai Effect of Impurities on the Exclusive Parameters of Plasma-Focus Dena

Journal of Fusion Energy, 2006, Vol. 25, p181-, M. Abdollahzadeh, S.M. sadat Kiai, G.R. Etaati and A.R. Babazadeh Some Studies on the Time Resolved Energy Spectrum Reconstruction for Pulsed Neutron Source

Journal of Fusion Energy, 2006, Vol. 25, p241-6, M. Mahmoodi Darian, A. Hojabri, M.K. Salem and M. Ghoranneviss The Influence of Resonance Helical Field on the Z_{eff} and Impurity Radiation in the IR-T1 Tokamak

Iranian Journal of Physics Research, 2007, Vol. 7, p5-, A. Ghasemizad and M.J. Tabatabai Determination of Optimum Proton Pulse Duration for Triggering Fast Ignition in Inertial Confinement Fusion Iranian Journal of Physics Research, 2007, Vol. 7, p25-, M. Hosseinpour, A. Anvari and M. Ghorannevis Determining of Electron Temperature Profile on the Cross Section of a Tokamak, using ECE Technique

Laser Physics, 2007, Vol. 17, p18-21, M. Emami Design of Capillary Z-Pinch Plasma for a Soft X-Ray Laser

Journal of Science, Islamic Azad University, 2007, Vol. 17, p13-19, J. Payamarar, K. Yasserian and M. Ghoranneviss Design and Fabrication of a Semi Industrial Cylindircal Magnetron Discharge

Physical Review C, 2007, Vol. 75, 034605, O.N. Ghodsi and M. Mahmoodi Calculation of Complete Fusion Cross Section of Heavy Ion Reactions using the Monte Carlo Method

Journal of Prime Research in Mathematics, 2007, Vol. 3, p169-77, S.M. Hosseinimotlagh, M. Roostaie and H. Kazaemifard Analytical Solutions to Brajinskii's Equations in One Dimension by Using Laplace Transform Technique

Journal of Sciences, Islamic Azad University, 2007, Vol. 17, p42-47, M. Ghorannevis, S.R. Shariatzadeh, A. Talebi Taher, M.K. Salem, P. Arvin, S. Mohammadi, M. Ghasemloo and R. Tarkeshian Design and Fabrication of Langmuir Probe Circuit for Measurment of Plasma Edge Electron Temperature and Density in IR-T1 Tokamak

Journal of Sciences, Islamic Azad University, 2007, Vol. 18, p171-6, S. Koshbinfar and A. Ghasemizad On the Self Similar Energy Gain Scaling in Isobaric Approach of ICF Targets

Physics Letters A, 2007, Vol. 361, p360-3, *H.R. Yousefi, *F.M. Aghamir, and **K. Masugata *Department of Physics, University of Tehran, Tehran, Iran **Electric Power System Laboratory, Department of Electric and Electronic Engineering, University of Toyama, Toyama, Japan Effect of the Insulator Length on Mather-Type Plasma Focus Devices

Far East Journal of Dynamical Systems, 2007, Vol. 9, p125-31, M. Mahdavi and V. Zanganeh Effect of Internal ³He Breeding on Muon Cycle in Tritium Target

Nuclear Science and Techniques, 2007, Vol. 18, p129-36, S.N. Hosseini Motlagh, S. Mohamady, M.K. Moradkhani, and R. Shamsi Effect of Tritium Reduction in Determining Energy Gain by Using R-Matrix Method Direct Laser Fusion in D-T Reaction

Journal of Prime Research in Mathematics, 2007, Vol. 3, p169-177, S.N. Hosseinimotlagh, M. Roostaie and H. Kazemifard Analytical Solutions to Branjinskii's Equations in One Dimension by using Laplace Transform Technique

Journal of Fusion Energy, 2007, Vol. 26, p343-47, S. Goudarzi, R. Amrollahi and E. Alizadeh

Experimental Study of the Variation of Neutron Emission Anistropy in a Filippov-Type Plasma Focus Facility

Nuclear Instruments and Methods in Physics Research A, 2007, Vol. 581, p839-43, R. Khoda-Bakhsh, A. Soltanian and M. Amniat-Talab Volume Ignition of ³He Pellets

Plasma Physics and Controlled Fusion, 2007, Vol. 49, p1335-43, *M. Mirzaie, **B.
Shokri and ***A.A. Rukhadze
*Physics Department, Shahid Beheshti University, Tehra, Iran
**Institute for Studies in Theoretical Physics and Mathematics, Tehran, Iran
***General Physics Institute, Moscow, Russia
Analysis of Overcritical Plasma Production by Strong Microwave Fields

Plasma Physics and Controlled Fusion, 2007, Vol. 49, p1447-55, T.D. Mahabadi and M.A. Tafreshi An Investigation of the Plasma Behavior in a Filippov Type Plasma Focus Device

Plasma Science and Technology, 2007, Vol. 16, p785-90, *M.A. Mohammadi, ***R. Verma, *S. Sobhanian, **C.S. Wong, ***S. Lee, ***S.V. Springham, ***T.L. Tan, ***P. Lee and ***R.S. Rawat

*Faculty of Physics, University of Tabriz, Tabriz, Iran

**Plasma Research Laboratory, Physics Department, University of Malaya, Kula Lumpur, Malaysia

***Natural Sciences and Science Education, National Institute of Education, Nanyang Technological University, Singapore

Neon Soft X-Ray Emission Studies from the UNU-ICTP Plasma Focus Operated with Longer than Optimal Anode Length

Journal of Fusion Energy, 2007, Vol. 26, p313-6, M.V. Roshan, A.R. Babazadeh, S.M. Sadat Kiai, H. Habibi, and M. Mamarzadeh Investigation of Plasma Facing Components in Plasma Focus Operation

Nuclear Instruments and Methods in Physics Research, Section A, 2007, Vol. 581, p839-43, R. Khoda-Bakhsh, A. Soltanian and M. Amniat-Talab Volume Igniton of ³He Pellets Amirkabir Journal of Science, 2007-8, Vol. 18, p1-6, S.H. Goudarzi, R. A. Elahi and H. Yazdani

A Method for Measuring the Time-Resolved Spectrum of the Neutrons Emitted in Plasma Focus Devices

Journal of Plasma Physics, 2008, Vol. 74, p35-46, A.R. Niknam and B. Shokri Low-Frequency Temperature-Dependent Plasma Discharge Instabilities in the Presence of External Constant Electric and Magnetic Fields

Journal of Fusion Energy, 2008, Vol. 27, p154-60, S.N. Hosseini Motlagh, Sh. S. Mohammadi and R. Shamsi Application of High Energy Protons in Inertial Confinement Fusion by using the Fast Ignitor Concept for DT Fusion

Pasma Devices and Operations, 2008, Vol. 16, p105-114, P. Zodeh, R. sadigh-Bonabi and H. Afarideh New Ellipsoid Cavity Model for High Intensity Laser-Plasma Interaction

Journal of Fusion Energy, 2008, Vol. 27, p161-7, S.N. Hosseini Motlagh, Sh. S. Mohammadi and R. Shamsi Calcualtion of pR-Parameter and Energy Gain for Aneutronic Fusion in Degenerate P-¹¹B Plasma

Journal of Fusion Energy, 2008, Vol. 27, p168-176, S.N. Hosseini Motlagh, A. Enanyati and R. Shamsi

Studies on the Dynamics of D-T Fusion Reaction on the Relativistic Equilibrium Velocity Distribution

Journal of Fusion Energy, 2008, Vol. 27, p177-81, S.N. Hosseini Motlagh Determination of Thermomagnetic Current by using Neutron Released from Deuterium-Tritium Fusion Reactions in Hybrid Reactors

Journal of Fusion Energy, 2008, Vol. 27, p195-9, S. Goudarzi, R. Amrollahi and R. Saberi Moghaddam

A Model based on Lumped Parameters for Filippov-Type Plasma Focus Device

Laser and Particle Beams, 2008, Vol. 26, p105-112, **M. Ghoranneviss, **B. Malekynia, *H. Hora, ***G.H. Miley and ****X. He

*Department of Theoretical Physics, Unviersity of New South Wales, Sydney, Australia **Plasma Physics Research Center, Science and Research Branch, Islamic Azad University, Tehran

***Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois

****Institute of Applied Physics and Computational Mathematics, Beijing, China Inhibition Factor Reduces Fast Ignition Threshold for Laser Fusion using Nonlinear Force Driven Block Acceleration Computational and Applied Mathematics, 2008, Vol. 27, p107-21, A. Ebadian and P. Darania Study of Exact Solutions of Nonlinear Heat Equations

Proceedings of World Academy of Science, Engineering and Technology, 2008, Vol. 33, p271-274, R. Amrollahi and M. Habibi Computational Simulation of Imploding Current Sheath Trajectory at the Radial Phase of Plasma Focus Performance

Contributions to Plasma Physics, 2008, Vol. 48, p555-560, P. Zobdeh, R. Sadighi-Boanbi, H. Afarideh, E. Yazdani and R. Rezaei Nasirabad Using the Steepened Plasma Profile and Wave Breaking Threshold in Laser-Plasma Interaction

IEEE Transactions on Plasma Science, 2008, Vol. 36, p794-801, A. talaei, S.M. Sadat Kiai and S. Adlparvar Pinched Plasma Study in a Filippov-Type Plasma Focus "Dena"

Chaos, Solitons & Fractals, 2008, Vol. 36, p1232-43, K.R. Shirazi Theoretical Studies on Solid Heterogenous Targets in Muon Catalyzed Fusion using Transport Theory and its Comparison with Available Experimental Values

Journal of Applied Sciences, 2008, Vol. 8, p1586-89, A. Ghasemizad and S. Khoshbinfar Ignition Criteria of Spark Parameters in Direct Drive Inertial Confinement Fusion

Plasma Devices and Operations, 2008, Vol. 16, p105-14, P. Zobdeh, R. Sadighi-Bonabi and H. Afarideh

New Ellipsoid Cavity Model for High-Intensity Laser-Plasma Interaction

Fusion Engineering and Design, 2008, Vol. 83, p2008-5, M. Emami, M. Ghoranneviss and R. Tarkeshian

Comparative Study of Plasma Position Measurement using Multipole Moments and Discrete Magnetic Probes Methods on IR-T1 Tokamak

Applied Physics Letters, 2008, Vol. 93, 011101, *H. Hora, **B. Malekynia, **M. Ghoranneviss, ***G.H. Milay and ****X. He

*Department of Theoretical Physics, Unviersity of New South Wales, Sydney, Australia **Plasma Physics Research Center, Science and Research Branch, Islamic Azad University, Tehran

***Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois

****Institute of Applied Physics and Computational Mathematics, Beijing, China Twenty Times Lower Ignition Threshold for Laser Driven Fusion using Collective Effects and the Inhibition Factor Computers and Mathematics with Applications, 2008, Vol. 56, p2175-88, F. Shakeri and M. Dehghan

The Method of Lines for Solution of the One-Dimensional Wave Equation Subject to an Integral Convservation Condition

Plasma Physics and Controlled Fusion, 2008, Vol. 50, 105003, M. Abdollahzadeh, S.M. Sadat Kiai and A.R. Babazadeh

Measurment of the Time Dependent Neutron Energy Spectrum in the 'DENA' Plasma Focus Device

Plasma Physics and Controlled Fusion, 2008, Vol. 50, M. Abdollahzadeh, S.M. Sadat Kiai and A.R. Babazadeh

Measurement of the Time Dependent Neutron Energy Spectrum in the DENA Plasma Focus Device

Contributions to Plasma Physics, 2009, Vol. 49, p49-54, R. Sadighi-Bonabi, S. Rahmatallahpor, H. Navid, E. Lotfi, P. Zobdeh, Z. Reiazie, M. Bostandoust and M. Mohamadian

Energy Evaluation of Mono-Energetic Electron beam produced by Ellipsoid Cavity Model in the Bubble Energy

Journal of Fusion Energy, 2009, Vol. 28, p130-4, M. Habibi, R. Amrollahi and M. Attaran

Experimental Study of Current Discharge Behavior and Hard X-Ray Anistropy by APF Plasma Focus Device

Journal of Fusion Energy, 2009, Vol. 28, p135-8, **B. Malekynia, **M. Ghoranneviss, *H. Hora and ***G.M. Miley

*Department of Theoretical Physics, Unviersity of New South Wales, Sydney, Australia **Plasma Physics Research Center, Science and Research Branch, Islamic Azad University, Tehran

***Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois

Thermal Transport Effect in Tokamaks and Block Ignition for Laser Fusion

Laser and Particle Beams, 2009, Vol. 27, p149-156, *E. Yazdani, **Y. Cang, *R. Sadighi-Bonabi, ***H. Hora and ****F. Osman

*Physics Department, Sharif University, Tehran, Iran

**Institute of Physics, Chinese Academy of Sciences, Beijing, China

***Department of Theoretical Physics, University of New South Wales, Sydney, Australia

****School of Computation and Mathematics, University of Western Sydney, Penrith, Australia

Layers from Initial Rayleigh Density Profiles by Directed Nonlinear Force Driven Plasma Blocks for Alternative Fast Ignition Journal of Fusion Energy, 2009, Vol. 28, p282-289, F. Dini and S. Khorasani MHD Equilibrium and Kink Stability in Damavand Tokamak

Journal of Fusion Energy, 2009, Vol. 28, p296-299, *R. Shariatzadeh, **M. Ghoranneviss, ***M. Emami, ****A. Anvari and *****G. Van Oost *Islamic Azad University **Plasma Physics Research Center, Islamic Azad Univeristy ***School of Laser and Optics, Institute of Nuclear Science and Technology, AEOI **** Sharif University of Technology *****Department of Applied Physics, Ghent University Design and Fabrication of a Movable Langmuir probe for Plasma Edge Parameters Measurements in the IR-T1 Tokamak

Laser and Particle Beams, 2009, Vol. 27, p201-206, *N. Azizi, **H. Hora, ***G.H. Miley, *B. Malekynia, *M. Ghorannevis and X. He

* Plasma Physics Research Center, Islamic Azad University, Tehran, Iran ** Department of Theoretical Physics, University of New South Wales, Sydney,

Australia

*** Department of Nuclear, Plasma and Radiological Engineering, University of Illinois ****Institute of Applied Physics and Computational Mathematics, Beijing, China Threshold for Laser Driven Block Ignition for Fusion Energy from Hydrogen Boron-11

Laser and Particle Beams, 2009, Vol. 27, p233-241, *B. Malekynia, *M. Ghorannevis, **H. Hora and ***G.H. Miley

* Plasma Physics Research Center, Islamic Azad University, Tehran, Iran

** Department of Theoretical Physics, University of New South Wales, Sydney, Australia

*** Department of Nuclear, Plasma and Radiological Engineering, University of Illinois Collective Alpha Particle Stopping for Reduction of the Threshold for Laser Fusion using Nonlinear Force Driven Plasma Blocks

Journal of Fusion Energy, 2009, Vol. 28, p304-313, A. Talaei and S.M. Sadat Kiai Study the Influence of the Bank Energy on the Dynamical Pinch in Plasma Focus

Journal of Fusion Energy, 2009, Vol. 28, p323-327, H. Mehrban, M. Vaezzadeh and M. Saeidi

Calculation of Nano-Charged Particles Pulsation Frequency in Tokamak

Optics Communications, 2009, Article in press, *H. Hora, **G.H. Miley, ***M. Ghorannevis, ***B. Malekynia and **N. Azizi

* Department of Theoretical Physics, University of New South Wales, Sydney, Australia ** Department of Nuclear, Plasma and Radiological Engineering, University of Illinois

*** Plasma Physics Research Center, Islamic Azad University, Tehran, Iran

Laser-Optical Path to Nuclear Energy without Radioactivity: Fusion of Hydrogen-Boron by Nonlinear Force Driven Plasma Blocks

Journal of Physics B, 2009, Vol. 42, 125602, *M.H. Mahdieh, *R. Fazeli and **G.J. Tallents *Department of Physics, Iran University of Science and Technology, Namark, Tehran, Iran **Department of Physics, University of York, York, UK Soft X-Ray Enhancement from a Porous Nano-Layer on Metal Targets Irradiated by

Materials Science Related Research

Thesis:

Long Laser Pulses

B. Rezaei, Thesis (M.S.), Chemistry Department of the University of Esfahan, 1989 Design and Construction of an Electrolysis Cell for Production of Fluorine

M. Ahmadi, Thesis (M.S.), Sharif University of Technology, Tehran, Department of Mechanical Engineering, January 1993 Preparation of Uranium Trioxide Powder from Uranyl Nitrate Solution in a Fluidized Bed Reactor

M. Tohidi, Thesis (M.S.), Shiraz University, 2005 Design of New Optode for the Determination of Uranyl Ion

Conference Papers:

6th Iranian Chemical and Chemical Engineering Conference, September 1991, Tehran, H. Ghaforuian New Method for the Determination of Rhenium

6th Iranian Seminar on Analytical Chemistry, Baolsar, Iran, April 1995, H. Ghafourian and H. Foroutan Quantity and Quality Analysis of Holmium (Ho) and Rare Earth Elements by Complexometry

4th Iranian Conference of Chemical Engineering, 1998, Sharif University, Tehran, Iran, F. Rashidi and S.A. Hashemi Fluorspar Production from Acidic Wastes Containing Fluorine

5th National Iranian and 4th International Chemical Engineering Congress, April 24-7, 2000, Iran, F. Rashidi and R. Ranjbar A Mechanism for Production of Calcium Fluoride from Acid Phosphoric Wastes

Industrial Minerals Fluorspar 2001 Conference, Johannesburg, South Africa, March 25-27, 2001, M.A. Hadavi Iranian Fluorspar – An Emerging Force 2nd International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, M. Habashi Zadeh Zirconium Production Plant and its Progress

4th Aegaen Analytical Chemistry Days, Kusadasi, Turkey, September 29 – October 3, 2004, A.R. Ghiaasvand A New Simple and High-Performance Homogenous Liquid-Liquid Extraction Method

9th Iranian Chemical Engineering Congress, Tehran, Iran, November 23-5, 2004, M. Jahansaz and T. Kaghazchi Extraction of Magnesium Compounds from Dolomite Rocks Using Leaching Process Pressurized under Carbon Dioxide

9th Iranian Chemical Engineering Congress, Tehran, Iran, November 23-5, 2004, A. Khanchi, S. Fatemi, M. Firouzezare, and S.M. Kalantari Separation of Hafnium from Zirconium by Ion Exchange Chromatography Method and Comparison of this Method Properties with other Methods

Azad University, Central Brach of Tehran, Iran, 2006, H. Arjmandi, M. Mehrjouye and O. Arjmandi Investigation of Different Methods for Magnesium Extraction and Production

Journal Articles:

Journal of Chemical and Engineering Data, 1976, Vol. 21, p446-, F.M. Farhan and H. Nedjat The Ternary System: Water-Zirconyl Nitrate-Zirconyl Chloride at 0⁰C

Mineralology and Petrology, 1977, Vol. 24, p151-60, *H. Khalili Mineralogical and Geochemical Investigations of Some Pegmatites from the Mashad Area, Northeastern Iran *worked performed at Department of Earth Sciences, University of Leeds, UK; now at Department of Geology, Ferdousi University, Mashad, Iran

Talanta, 1978, Vol. 25, p569-72, A.G. Gharib Determination of Re in Geological Materials by RNAA

Radiochemica Acta, 1980, Vol. 27, p35-8, A.G. Gharib Determination of Ge and Sn in Geological Materials by RNAA

Mineralogical Magazine, 1980, Vol. 43, p820-2, A.G. Gharib Distribution of La, Eu, Ge, Sn, P, and S in Nickeliferous Lateritic Profiles Scientific Bulletin of the Atomic Energy Organization of Iran, 1991, Vol. 10, p11-23, A.A. Hosseini Development of a Scientific Basis for Design of Intermetallic Alloys for High-Temperature Structural Uses

Corrosion Science, 1993, Vol. 35, p565-570, M.A. Golazar and A.R. Riahi The Blistering Phenomenon in Zirconium and Zirconium Alloys

Nukleonika, 1994, Vol. 39, p129-36, H. Rahimi, N. Rahimi, and F. Ashtiani Gaseous Tritium Light Source Manufacturing

Analytica Chimica Acta, 1996, Vol. 328, p33-9, M.H. Pournaghiazar and R. Zargharian Adsorptive Pulse Determination of Uranium(VI) Oxinate in Chloroform and its use for the Analysis of Uranium Mineral Ores

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 15, p15-24, F. Asgarizadeh and M.M. Ghanadi Determination of Uranium Enrichment Using Low Energy X and Gamma Rays

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 18, p9-17, A.A. Hosseini, H. Mansuri and R. Mahmudi Casting and Irradiation Studies of 8001 Series of Aluminum Alloys for Nuclear Research Reactor Structural Applications

Scientific Bulletin of the Atomic Energy Organization of Iran, 1999, Vol. 19, p51-8, A.A. Hosseini and H. Bayati Determination of Beryllium Content in Several Mineral Samples from an Iranian Mine Using ICP-OES and XRD Techniques

Analytical Chemistry, 1998, Vol. 70, p5259-63, M.R. Ganjali, A. Moghimi, and M. Shamsipur Beryllium-Selective Membrane Electrode Based on Benzo-9-Crown-3

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, S. Fatourechchian Evaluation of Coke Microstructure and its Effect on Graphite Fabrication

Analytica Chimica Acta, 2001, Vol. 434, p23-7, M. Shamsipur, M.R. Ganjali, A. Rouhollahi, and A. Moghimi Beryllium-Selective Membrane Sensor Based on 3,4-di[2-(2-Tetrahydro-2Hpyranoxy)]ethoxy Styrene-Styrene Copolymer

Analytica Chimica Acta, 2001, Vol. 437, p17-22, A. Afkhami, T. Madrakian, A.A. Assl, and A.A. Sehhat Solid Phase Extraction Flame Atomic Absorption Spectrometric Determination of Ultra-Trace Beryllium Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 24, S. Fatoorechchian, F. Ahari Hashemi and S. Ahmadi Determination of Emperical Relation between Dynamic Young's Modulus and Thermal Expansion Coefficient for Nuclear Grade Graphite

Talanta, 2002, Vol. 56, p375-81, Y. Yamini, J. Hassan, R. Mohandesi, and N. Bahramifar Preconcentration of Trace Amounts of Beryllium in Water Samples on Octadecyl Slica Cartridges Modifed by Quinalizarine and its Determination with Atomic Absorption Spectrometry

Iranian Journal of Science and Technology B, 2002, Vol. 26, p299-306, V. Taghikhani, H. Modarres, and J.H. Vera Activity Coefficients of Indivdual Ions

Main Group Metals Chemistry, 2002, Vol. 25, p663-7, M.R. Ganjali, A. Daftari, M.R. Pourjavidi, M.F. Ratsegar, and A. Moghimi Novel Be(II) Membrane Electrode Based on a Derivative of Benzo-9-Crown-3

Talanta, 2002, Vol. 57, p807-12, A. Abbaspour and L. Baramakeh Dual-Wavelength beta-Correction Spectrophotometry for Selective Determination of Zr

Analytical Sciences, 2002, Vol. 18, p1127-30, A. Abbaspour and L. Baramakeh Simultaneous Determination of Zirconium and Molybdenum by First-Derivative Spectrophotometry

Industrial and Engineering Chemical Research, 2002, Vol. 41, p2512-20, A.M. Dehkordi Experimental Investigation of an Air-Operated Two-Impinging-Streams Reactor for Copper Extraction Processes

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 27, F. Ahary Hashemi and S. Fatoorechchian Investigation of Coal Tar Pitch Impregnation Effects in Improving Graphite Properties

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 28, K. Fatemi, S. Fatoorechchian, F. Ahari Hashemi and S. Ahmadi

Measurement and Investigation of Effects of Coal tar Pitch Fractions in Nuclear Graphite Properties

Analytical Letters, 2003, Vol. 36, p317-28, M.R. Ganjali, A. Daftari, M.F. Rastegar, and A. Moghimi Novel Beryllium Membrane Sensor Based on 2,4-Dinitrophenylhydrazinebenzo-9-Crown-3 Coated Graphite

Analytical Sciences, 2003, Vol. 19, p353-6, M.R. Ganjali, A. Daftari, M. Faal-Rastegar and A. Moghimi Novel Potentiometric Sensor for Monitoring Beryllium Based on Naphto-9-Crown-3 Journal of Sciences, Islamic Republic of Iran, 2003, Vol. 14, p239-45, H. Faghihian, A. Malekpour, and M.G. Maragheh

Modification of Clinoptilolite by Surfactants for Molybate (⁹⁹Mo) Adsorption from Aqueous Solutions

Iranian Journal of Radiation Research, 2004, Vol. 2, p1-6, F. Abbasisiar, T. Hosseini, A. Fathivand and Gh. Heravi

Determination of Uranium Isotopes (²³⁴U, ²³⁸U) and Natural Uranium (U-Nat) in Water Samples by Alpha Spectroscopy

Desalination, 2004, Vol. 169, p21-31, T. Mohammadi, A. Moheb, M. Sadrzadeh, and A. Razmi

Separation of Copper Ions by Electrodialysis Using Taguchi Experimental Design

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 31, K. Fatemi, F. Ahari Hashemi, S. Fatoorechchian and F. Farahzadi

The Impurities Removal from Petroleum Cokes by Acid Leaching and Theoretical Investigations of its Effects on Nuclear Graphite Properties

Electroanalysis, 2004, Vol. 16, p282-8, M. Shamsipur, A. Soleymanpour, M. Akhond, and H. Sharghi New Macrocyclic Diamides as Neutral Ionophores for Highly Selective and Sensitive PVC-Membrane Electrodes for Be²⁺ Ion

Sensors and Actuators B: Chemical, 2004, Vol. 100, p315-9, M.R. Ganjali, M. Ghorbani, P. Norouzi, A. Daftari, M. Faal-Rastegar, and A. Moghimi Nano Levels Detection of Beryllium by a Novel Beryllium PVC-Based Membrane Sensor Based on 2,3,5,6,8,9-Hexahydro-1,4,7,10-Benzotetra Oxacyclododecine-12carbaldehyde-12-(2,4-dinitropheyl)hy

Talanta, 2004, Vol. 63, p899-906, M.R. Ganjali, M. Rahimi-Nasrabadi, B. Maddah, A. Moghimi, M. Faal-Rastegar, S. Borhany, and M. Namazian Sub-Micro Level Monitoring of Beryllium Ions with a Novel Beryllium Sensor Based on 2,6-Diphenyl-4-Benzo-9-Crown-3

Electroanalysis, 2004, Vol. 17, p719-23, M.B. Gholivand and H.R. Nassab Highly Selective Adsorptive Cathodic Stripping Voltammetric Determination of Uranium in the Presence of Pyromellitic Acid

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 262, p305-10, A.A.M. Sharif, H. Ghafourian, A. Ahmadiniar, S. Waqif Husian and M. Saber-Tehrani The Effects of Hgh Amounts of Chlorine and Sodium on Measurement of Aluminum by Intstrumental Neutron Activation Analysis and Decrease of Spectral Noises by Means of Digital Low Pass Filter Equations Analytical Sciences, 2004, Vol. 20, p1711-5, A. Afkhami and A.R. Zarei Simultaneous Kinetic Determination of Beryllium and Aluminum by Spectrophotometric H-Point Standard Addition Method

Talanta, 2004, Vol. 64, p62-6, M.B. Gholivand, N.H. Rashidi and H. Fazeli Cathodic Adsorptive Stripping Voltammetric Determination of Uranium(VI) Complexed with 2,6-Pyridinedicarboxylic Acid

Electronic Journal of Biology, 2005, Vol. 1, p76-80, T. Faez, M.S. Yaghmaee and S. Sarkar

The State of Art and Possible new Applications of Nano/Meso Porous Silica Aerogel Analytica Chimica Acta, 2005, Vol. 531, p55-60, S. Afsaneh and M. Bagheri A Novel Sensor for Uranium Determination

Journal of Materials Science and Technology, 2005, Vol. 21, p239-42, E. Keshavarz Alamdari, S.K. Sadrnezhaad, and Z. Mos-Hefi Shabestari Chloroform Aided Extraction Spectrophotometric Determination of Rhenium Using Thiocynate Complexing Agent

Journal of Sciences (Islamic Azad University), 2005, Vol. 56, p233-49, A. Niazi, A. Yazdanipour and N. Ghasemi

Genetic-Algorithm-Based Wavelength Selection in Spectrophotometric Simultaneous Determination of Uranium and Thorium using Partial Least Squares Regression

Physica B: Condensed Matter, 2005, Vol. 358, p247-55, S.M. Baizee and A. Pourghazi Ab Initio Calculation of Electronic Structure and Electric Field Gradient in Pu_3Sn and $PuSn_3$

Electroanalysis, 2005, Vol. 17, p895-900, M.R. Ganjali, V. Akbar, P. Norouzi, A. Moghimi, and A. Sepehrifard Be(II) Graphite Coated Membrane Sensor Based on a Recently Synthesized Benzo-9-Crown-3 Derivative

Chemical Engineering and Technology, 2005, Vol. 28, p892-8, S.S. Madaeni and H.R.K. Zand Selective Transport of Bismuth Ions through Supported Liquid Membrane

Sereeu ve Transport of Distributions anough Supported Diquit friendrane

Spectrochmica Acta A, 2005, Vol. 61, p2988-94, T. Madrakian, A. Afkhami, M. Borazjani, and M. Bahram Partial Least-Squares Regression for the Simultaneous Determination of Aluminum and

Beryllium in Geochemical Samples using Xylenol Orange

Bulletin of the Chemical Society of Japan, 2006, Vol. 79, p67-74, M.M. Papari, D. Mohammad-Aghaie, J. Moghadasi, and A. Boushehr Semi-Empirically Based Assessment for Predicting Dilute Gas Transport Properties of F₂ and Ar-F₂ Fluids Ceramics International, 2006, Vol. 32, p313-9, B. Hashemi, Z.A. Nemati and M.A. Faghihi-Sani

Effect of Resin and Graphite Content on Density and Oxidation Behavior of MgO-C Refractory Bricks

Journal of Colloid and Interface Science, 2006, Vol. 298, p419-25, S. Shariati and Y. Yamini

Cloud Point Extraction and Simultaneous Determination of Zirconium and Hafnium using ICP-CES

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 36, p49-54, M. Baninajarian, M. Ravanbod and M. Aghahoseni Investigation and Determination of Trace Amounts of Chloride in Zirconium with Turbidimteric and Nephelometric Methods

Microchimica Acta, 2006, Vol. 154, p221-8, H. Karami, M.F. Mousavi, Y. Yamini, and M. Shamsipur

On-Line Solid Phase Extraction and Simultaneous Determination of Hafnium and Zirconium by ICP-Atomic Emission Spectroscopy

Spectrochimica Acta A, 2006, Vol. 64, p477-82, A. Abbaspour and L. Baramakeh Application of Principle Analysis-Artificial Neural Network for Simultaneous Determination of Zirconium and Hafnium in Real Samples

Turkish Journal of Chemistry, 2006, Vol. 30, p711-21, H.R. Poureted, A. Semnani, and M.H. Keshavarz Cerium (III) Ion-Selective Electrodes Based on 1,4,7-Trithiacyclononane

Journal of the Iranian Chemical Society, 2006, Vol. 3, p253-7, H. Sepehrian, A.R. Khanchi, M.K. Rofouei, and S. W. Husain Non-Thermal Synthesis of Mesoporous Zirconium Silicate and its Characterization

Journal of the Brazilian Chemical Society, 2006, Vol. 17, p1020-6, A. Niazi Spectrophotometric Simultaneous Determination of Uranium and Thorium using Partial Least Squres Regression and Orthogonal Signal Correction

Analytica Chimica Acta, 2007, Vol. 589, p22-32, M. Shamsipur, F. Mizani, M.F. Mousavi, N. Alizadeh, K. Alizadeh, H. Eshghi and H. Karami A Novel Flow Injection Potentiometric Graphite Coated Ion-Selective Electrode for the Low Level Determination of Uranyl Ion

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 38, 18-24, S. Naderi, R. Sarraf Mamoory and N. Riahi Noori Investigation of Effective Parameters in Preparation and Controlling Lithium Fluoride Nano Size Powder Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 38, p42-8, F.A. Hashemi and S. Fatoorehchian

Consideration and Indirect Method for the Determination of the Percentage of Porosity with Utilizing Variety of Densitites in the Structures of Graphites

Journal of Physics D: Applied Physics, 2007, Vol. 40, p1047-51, J. Sabbagghzadeh, S. Dadras and M.J. Torkamany

Comparison of Pulsed Nd: YAG Laser Welding Qualitative Features with Plasma Plume Thermal Characteristics

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 41, p44-9, K. Saberyan, S. Raygan, A. Movahhedian and S.A. Hosseini Semnani The Effect of Temperature and Gas Flow Rate on the Carbochlorination Process of ZrO₂

Materials Science and Engineering, 2008, Vol. 486, p1-7, H. Najafi, J. Rassizadehghani and S. Asgari As-Cast Mechanical Properties of Vanadium/Niobium Microalloyed Steels

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 43, p56-60, R. Sadighi, M.A. Ghaderi, K. Rajabi, M.R. Karami and M.Y. Hashemi Production of High Purity Graphite

Applied Radiation and Isotopes, 2008, Vol. 66, p158-61, A. Moussavi-Zarandi Determination of Beryllium by Photonuclear Activation Techniques

Journal of Nuclear Science and Technology, (AEOI) 2008, Vol. 45, D. Agha Aligol, M.R. Ketabdari, P. Oliaiy, A. Baghizadeh, F. Shokouhi, M. Lamehi Rachti, M. Farmahini Farahani and M. Moradi Determination of Uranium Ores Composition using Scanning Proton Microscope

Reprocessing and Separation Science Studies

Documents/Reports:

EE009 Fuel Dept AEOI H. Ghaforuian	Separation of Technetium from Waste 1991	
EX031	Purification of U from Anomaly 2 Saghand by Solvent	
	Extraction Method	
H. Ghafourian	1992	
AEOI Fuel & Ore Dressing Department		
LE017	Hydrometallurgical Investigation of U in Anomalies 2,5, and 6 in Saghand Area	
H. Ghafourian	1992	
AEOI Fuel & Ore Dressing Department		

EX032	Separation of U from Saghand Anomaly 2 by Precipitation Methods
H. Ghafourian	1992
AEOI Fuel & Ore Dressin	g Department
RS001	Radiometric Sorting of Saghand Anomalies 1,2,5, and 6 and Bandar Abbas Anomaly Land 6
H. Ghafourian	1992
AEOI Fuel & Ore Dressin	g Department
LE019	Separation of Cl from U Ores with High Chloride Content
H. Ghafourian	1993
AEOI Fuel & Ore Dressin	g Department
LE023	Separation of Cl-Ion from Esfordi Apatite
H. Ghafourian	1993
AEOI Fuel & Ore Dressin	g Department
EX026	Ore Ion Exchange Behavior of Synthetic and Natural Zeolite
H. Ghafourian	1993
AEOI Fuel & Ore Dressin	
EX033	Concentration and Purification of U Anomaly 2 Saghand by Ion Exchange
H. Ghafourian	1993
AEOI Fuel & Ore Dressin	g Department
LE021	Ore Dressing of U in Anomaly 1 Saghand
H. Ghafourian	1994
AEOI Fuel & Ore Dressin	
LE022	Investigation of Different Apatite
H. Ghafourian	1994
AEOI Fuel & Ore Dressin	

Thesis:

M. Kalbasi, Thesis (PhD), University of Bradford, UK, 1980 Extraction of Uranium with TBP in an Electrostatic Apparatus

M.R. Sangi, Thesis (M.S.), Tehran University, Department of Chemistry, January 1991 Separating Cesium-137 from Liquid Radioactive Wastes by Using Inorganic Exchangers Using Static and Dynamic Processes at Various Concentration of Nitric Acid and Sodium Nitrate K. Nazari, Thesis (M.S.), Amirkabir Technical University, December 1993 Recovery of Uranium from Phosphoric Acid by Liquid-Liquid Extraction Procedure

M. Tabassi, Thesis (M.S.), Amirkabir Technical University, Department of Physics, Tehran, Iran, January 1994 Determination of the Distribution Coefficient of Uranium in Two Phase Systems

M.R. Ghaderi, Thesis (M.S.), Tehran University, 1999 The Processing of Wastes in Talmesi and Meskani Mines

J. Safdari, Thesis (M.S.), Tehran University, 2001 Study of Hydrodynamic and Mass Transfer Parameters in Pulsed Sieve-Plate Columns

M. Kalantari, Thesis (M.S.), 2005, University of Tehran, 2005 Investigation of Zr(IV) and Hf(IV) Separation from Aqueous Solution by Ion Exchange Chromatographic Method

H.F. Zarnagh, Thesis (M.S.), University of Tehran, 2006 Modeling and Effective Parameters Estimation in Separation of Zirconium and Hafnium Cations by Ion Exchange Resin

Patents:

DE3821295 Method for Separating Technetium, Ruthenium, and Palladium from Solutions of Nuclear Fuels H. Ghafourian, Abdel Ali Sameh, and J. H. Ache Kernforschungsz Karlsruhe 1989

DE3843887 Separating Uranium and Plutonium by Solvent Extraction H. Ghafourian, Abdel Ali Sameh, and J. H. Ache Kernforschungsz Karlsruhe 1990

Conference Papers:

11th International Conference on Solid State Nuclear Track Detectors, Bristol, UK, 1981,
S.R. Hashemi-Nezhad
Determination of U-Content of Uranium-Bearing Veins and Inclusions

International Conference on Nuclear and Radiochemistry (INCR '86), Beijing, China, 1986, M. Nourmand Stability Constants of Uranium (VI) and Thorium (IV) Complexes with Some Alpha-Amino-Acids

2nd International Conference on Nuclear and Radiochemistry, Brighton, UK, July 1988, New Method for Separation of Ru from Waste Residue

International Symposium on Nuclear Techniques in the Exploration and Exploitation of Energy and Mineral Resources, Vienna, Austria, 1990, M. Sohrabpour, V. Zarifian, and K. Kamali Moghadam

Design and Testing of a Laboratory Borehole Facility for Simulation of Neutron Capture Gamma Rays

Proceedings of the 2nd International Conference on Hydrometallurgy, Changsha, China, 1992, A.G. Gharib, J. Kamali, and M. Movasaghi

Development of a New Process Flow Sheet for an Iranian Ore Containing Sodium Chloride

3rd International Conference on Nuclear Radiochemistry, September 1992, H. Ghafourian NDNAA for Separation of Rhenium

International Conference on Nuclear Tracks in Solids, Beijing, China, September 7-11, 1992, H. Afarideh Uranium Content and Age Determination of Various Minerals of Iran

The Final Report on Lecture and Design of Ion Exchange Column, CNNC, China, 1993, H. Ghafourian (Technical Coordinator) and Chen Shaoqiang

3rd International Conference on Methods and Applications of Radioanalytical Chemistry, Hawaii, April 1994, H. Ghafourian and H.J. Ache New Method for Concentration and Measurement of Technetium from Waste Water

95th General Meeting of the American Society for Microbiology, Washington, DC, May 1995, H. Ghafourian, F. Malekzadeh, and A. Farazmand Microbial Accumulation of Uranium

9th International Conference on Modern Trends in Activation Analysis, Seoul, Korea, September 1995, H. Ghafourian and A. Farazmand New Microbial MGF-48 for Accumulation of Uranium from Waste

International Conference on High Levels of Natural Radiation, Beijing, China, 1996, I. Bayat

Determination of Naturally Occurring Radionuclides in Liquid Wastes from Mining and Milling

International Conference on Uranium Extraction: Progress in Uranium Extraction and Related Environmental Protection, Beijing, China, 1996, *J.I. Skorovarov, *L.I. Rusin, *A.V. Lomonosov, **H. Chafourian, **A. Hashemi, and **H. Movaseghi *All-Russian Research Institute of Chemical Technology, Moscow **Fuel and Beneficiation Department, Atomic Energy Organization of Iran Development of Uranium Extraction Technology from Phosphoric Acid Solutions with Extractant PN-1200 4th International Chemical Engineering Conference, 1998, M. Kalbasi and P.J. Bailes Investigation into Extraction of Uranium with Tributyl Phosphate in an Electrostatic Apparatus

ISEC 2002: International Solvent Extraction Conference, March 17-21, 2002, Cape Town, South Africa, E.K. Alamdari, D. Darvishi, S.K. Sadrnezhaad, Z.M. Shabestari, A. O'Hadizadeh, and M. Akbari Effect of TBP as a Modifier for Extraction of Zinc and Cadmium with a Mixture of

DEHPA and MEHPA

Congress of Chemistry of Azad University in Cooperation with Louis Pasteur University, April 10-1, 2002, M.R. Yaftian, A.A. Zamani and A. Afshari Study of the Transport of Eu (III) Ion through a Liquid Membrane Containing Tri-n-Octylphosphine Oxides

Congress of Chemistry of Azad University in Cooperation with Louis Pasteur University, April 10-1, 2002, M.R. Shishahbore Heap Leaching Procedure for Uranium Extraction

Zeolite 02 Conference, June 3 -7, 2002, Thessaloniki, Greece, H. Faghihian, A. Malekpour, and M.Ghannadi Maragheh Sorption of Radioactive Molybate Anion by Iranian Natural and Modified Zeolites

Specialist Meeting on Regulatory Approaches for the Control of Environmental Residues Containg Naturally Occurring Radioactive Material, Vienna, Austria, September 23-7, 2002, M.H. Mallah, H. Kazemian, H. Ghasemi, M. Abbas and N. Maleki Evaluation of the Removal of Uranium Ion from Nuclear Wastes by Means of Some Zeolitic Exchangers (Preliminary Results)

International Conference on Nuclear Science and Technology in Iran, April 27-30, 2004, D. Paki and V. Mehrannia Determination of As (III) and As (V) in Uranium Leach Liquor

International Conference on Nuclear Science and Technology in Iran, April 27-30, 2004, K. Mirjalili, M. Roshani and H. Babaie Amines and Organophosphorus as Arsenic Extractants, a Determining Step towards

Uranium Ion Exchange Resin Preservation during Yellow Cake Production

International Conference on Nuclear Science and Technology in Iran, April 27-30, 2004, M. Davari, M.S. Ghoreishi Nejad, K. Nazari, A. Jabbari Rad, and M. Ghandi Maragheh Study of Synergistic Method for the Extraction of U (VI) from Nitric Acid Solutions

International Conference on Nuclear Science and Technology in Iran, April 27-30, 2004, B.A.E. Samani and S. Savafi Description of UCF Project 9th Iranian Chemical Engineering Conference, Iran University of Science and Technology, November 23-25, 2004, A. Khanchi, S. Fatemi, M. Firouzezare and M. Kalantari

Separation of Hafnium from Zirconium by Ion Exchnage Chromatography Method and Comparison of this Method Properties with other Methods

International Conference on Nuclear Science and Technology in Iran, Mashhad, February 22-3, 2006, H. Ghasemi, H. Kazemian, A. Malekinejad, and M.R. Pakzad Uranium Recovery from Zeolite Loaded with Uranyl Nitrate

11th National Iranian Chemical Engineering Conference, Tarbiat Modarres University, November 28-30, 2006, A. Nilchi, A.A. Babaluo and R. Rafiee Sorption of Cesium and Cobalt from Simulated Waste by PAN Based Hexacyanoferrates

Proceedings of the InternationalConference on Mineral Processing Technology with Focus on Industrial Minerals and Their Processing for Value Addition, Mumbai, India, Febraury 22-4, 2007, M. Akbari, H. Babaie and M. Alamdar Recovery of Uranium from Refractory Metals

International Conference on Nuclear Science and Technology in Iran, March 7-8, 2007, A. Faghihian, A. Nezamzadeh and M. Ghanaddi-Maragheh Thermodynamic Paramters for Absorption of Ce and Th by Zeolite A Synthesized by a Natural Zeolite

Journal Articles:

Cellular and Molecular Life Sciences, 1971, Vol. 27, p607-8, M. Qureshi, W. Husain, 2and F. Khan Separation of Metal Ions on Inorganic Ion-Exchange Papers

Experientia, 1972, Vol. 28, p988-9, S.W. Husain and S. K. Kazmi Thin Layer Chromatography of Metal Ions on a New Synthetic Inorganic Ion-Exchanger

Quarterly Bulletin of the Facility of Science, Tehran University, 1973, Vol. 5, p95-103, A. Owlya Solvent Extraction of Potassium Permangante by Pure Tributyl Phosphate and its Physicochemical Properties

Chrotographia, 1974, Vol. 8, p277-82, S.W. Husain and F. Eivazi Thin Layer Chromatography of 57 Metal Ions on an Inorganic Ion-Exchanger in Mixed Solvent Systems

Memoirs of the Faculty of Engineering, Tehran University, 1974, Vol. 28, M. Sohrabi and T. Kaghazchi Dynamics of Solvent Extraction Equipments Memoirs of the Faculty of Engineering, Tehran University, 1974, Vol. 29, M. Sohrabi and T. Kaghazchi General Solution for Multi-Stage Counter Current Separation Problems

Quarterly Bulletin of the Facility of Science, Tehran University, 1975, Vol. 7, p15-20, A. Owlya The Nitrate Complexes of Cerium (III) in Tri-n-Butyl Phosphate

Talanta, 1975, Vol. 22, p601-4, S.W.Husian and M.D. Charandabi Anion-Exchange Behavior of Several Elements in Systems Containg Formic Acid

Quarterly Bulletin of the Facility of Science, Tehran University, 1975, Vol. 7, p12-8, M. Fairar

Fast Method of Radiochemical Separation of Niobium from the Mixture of Different Fission Products

Mikrochimica Acta, 1978, Vol. 1, p11-8, S.W. Husain and S. Rasheedzad Thin-Layer Chromatography Separation of Platinum Metals on Semi-Crystalline Inorganic Ion-Exchanger

Technical Bulletin of the Atomic Energy Organization of Iran, 1982, Vol. 2, p60-75, M.R. Espahbod Review of the Radioactive Materials and Uranium Mineralization in the Salt Plugs of Southern Iran (Gachin and Ghalat Salt Plugs)

Polyhedron, 1982, Vol. 1, p826-7, M. Nourmand, I. Bayat, and S. Yousefi The Determination of the Stability Constants of Uranyl and Thorium with Aminopolycarboxylic Acids

Separation Science and Technology, 1982, Vol. 17, p935-43, S.W. Husain, Rasheedzad, J.L. Manzoori and Y. Jabbari Synthesis and Ion-Exchange Properties of Lanthanum Tungstate: A New Inorganic Ion Exchanger

Journal of Radioanalytical and Nuclear Chemistry, 1984, Vol. 84, p239-46, W.S. Husian, M. Ghannadi-Marageh and S. Rasheedzah Synthesis and Ion Exchange Properties of Cerium(IV) Selenite

Iranian Journal of Science and Technology, 1986, Vol. 10, p167-73, S.W. Husain Distributions Coefficients of Twenty-Nine Elements on Cation-Exchange Resin in Formic Acid – Organic Solvent Mixtures

Journal of Radioanalytical and Nuclear Chemistry, 1986, Vol. 99, p331-5, H. Movaseghi Method of Separating Uranium from Iron and Thorium

Scientific Bulletin of the Atomic Energy Organization of Iran, 1986, Vol. 5, p11-8, M.S. Emami

Geochemical and Hydrogeochemical Study of Gowarchin Syncline for Uranium Exploriation

Scientific Bulletin of the Atomic Energy Organization of Iran, 1986, Vol. 5, p27-36, M.R. Espahbod Uranium and Copper Mineralization in Iran

Scientific Bulletin of the Atomic Energy Organization of Iran, 1988, Vol. 7, p1-22, I. Bayat and M. Soltani Determination of Stability Constants of Cerium and Transuranium Elements with Aminopolycarboxylic Acids

Uranium, 1988, Vol. 4, p411-4, H. Movaseghi Solvent Exraction Kinetics of Uranium and Molybdenum

Journal of Planar Chromatography – Modern TLC, 1989, Vol. 2, p474-6, S.W. Husain Thin-Layer Chromatography of Metal Ions on an Ion-Exchanger – Stannic Silicate

Scientific Bulletin of the Atomic Energy Organization of Iran, 1991, Vol. 10, p67-84, H. Gafourian Separation of Noble Metals Ruthenium and Palladium using Completing Agents

Applied Radiation and Isotopes, 1992, Vol. 43, p859-62, S.W. Husain, M. Ghannadi Marageh and A.R. Khanchi Use of Radionuclides in Cation-Exchange Studies of Elements in Mixed Systems

Applied Radiation and Isotopes, 1993, Vol. 44, p745-9, S.W. Husain Radionuclides Sorption on Lanthanum Silicate: A New Ion Exchanger

Analytica Chimica Acta, 1996, Vol. 328, p33-9, M.H. Pournaghi-Azar and R. Zargharian Adsorptive Pulse Polarographic Determination of Uranium (VI) Oxinate in Chloroform and Its Use for the Analysis of Uranium Mineral Ores

Journal of Planar Chromatography – Modern TLC, 1996, Vol. 14, p586-91, S.W. Husain Thin Layer Chromatography of Metal Ions on Cerium (III) Silicate: A New Ion-Exchanger

Applied Radiation and Isotopes, 1996, Vol. 47, p501-5, M.G. Marage Sorption Studies of Radionuclides on a New Ion Exchanger: Cerium (III) Silicate

Chromatographia, 1997, Vol. 45, p347-50, S.W. Husain Chromatographic Separation of Inorganic Ions on Thin Layers of Lanthanum Silicate Ion Exchanger Scientific Bulletin of the Atomic Energy Organization of Iran, 1997, Vol. 13, p53-67, H. Ghafourian, F. Malekzadeh, and A. Farazmand Uraniun and Heavy Metals Separation by a New Bacterium MGF-48

Scientific Bulletin of the Atomic Energy Organization of Iran, 1997, Vol. 14, p53-61, A. Hashemi and H. Movaseghi

Development of Uranium Extraction from Phosphoric Acid Solutions with Extractant PN-1200

Journal of Membrane Science, 1998, Vol. 144, p57-64, *M.R. Yaftian, *M. Burgard, **C.B. Dieleman, and **D. Matt

*Laboratoire de Chemie Minerale et Analytique, CNRS, ECPM Universite Louis Pasteur, Strasbourg, France

**Groupe de Chimie Inorganique Moleculaire, CNRS, ECPM Universite Louis Pasteur, Strasbourg, France

Rare-Earth Metal-Ion Separation using a Supported Liquid Membrane Mediated by a Narroq Rim Phosphorylated Calix[4]arene

Talanta, 1998, Vol. 46, p123-8, D. Dojozan Preconcentration of Trace Uranium from Seawater with Solid Phase Extraction Followed by Differential Pulse Polarographic Determination in Chloroform Eluate

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 18, p46-56, K. Fatemi Uranium Extraction from High Content Chlorine Leach Liquor

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 17, p44-56, H. Ghafourian, A.M. Latifi, and F. Malekzadeh Study for Optimization of Uranium Absorption by a New Bacterium MGF-48

Separation Science and Technology, 1999, Vol. 34, p219-29, S.W. Husain Separation of Ions on Columns of Cerium (IV) Silicate, a New Ion Exchanger

Applied Radiation and Isotopes, 1999, Vol. 50, p459-65, M.G. Marageh, S.W. Husain and A.R. Khanchi

Selective Sorption of Radioactive Cesium and Strontium on Stannic Molybdophosphate Ion Exchanger

Journal of Chemical Research, 1999, Vol. 9, p586-, H.S. Amoli, M. Rajabi and F. Mohanazadeh Separation and Spectrophotometric Determination of Uranium in Caspian Sea Water

Separation Science and Technology, 1999, Vol. 34, p1833-43, A. Nilchi Properties, Ion-Exchange Behavior, and Analytical Applications of Cerium Phosphate Cation Exchangers Suitable for Column Use Journal of Radioanalytical and Nuclear Chemistry, 1999, Vol. 241, p139-43, M.G. Marageh Sorption of Radionuclides on Cerium (IV) Molybdophosphate Ion Exchanger

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 20, S.J. Safdari, H. Bahmanyar and D. Bastani

Effect of the Operating Parameters on Pressure Drop and Flooding Velocities in Pulsed-Perforated Plate – Columns

Hydrometallurgy, 2000, Vol. 55, p327-41, E.K. Alamdari and S.K. Sadrnezhaad Thermodynamics of Extraction of MoO_4^{2-} from Aqueous Sulfuric Acid Media with TBP Dissolved in Kerosene

Separation Science and Technology, 2000, Vol. 35, p1011-19, M. Shamsipur A Rapid Method for the Extraction and Separation of Uranium from Thorium and Other Accompanying Elements Using Octadecyl Silica Membrane Disks Modified by Tri-n-Octyl Phosphine Oxide

Separation Science and Technology, 2000, Vol. 35, p1939-49, M.R. Rezvanianzadeh, Y. Yamini, A.R. Khanchi, P. Ashtari, and M.M. Maragheh Highly Selective and Efficient Membrane Transport of Molybdenum using Di(2-Ethylhexyl)Phosphoric Acid as Carrier

Journal of Radioanalytical and Nuclear Chemistry, 2000, Vol. 245, p589-94, A. Nilchi, M. Ghanadi Maragheh and A. Khanchi Characteristics of Novel Types of Substituted Cerium Phosphates

Journal of the Faculty of Engineering, University of Tehran, 2000, Vol. 34, p11-22, H. Bahmanyar, S.J. Safdari, D. Bastani, M.M. Ghannadi and M.A. Saeli Investigations of the Internal Ciculation Inside Drops in Designing Pulsed Sieve-Plate Extractor Columns

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 21, M.R. Ghaderi, B.A. Samani and M. Ovilazadeh Ore Processing of Heaps Samples from Talmesi and Meskani Mines; Anark Ore Dostrict

Journal of the Chinese Institute of Chemical Engineers, 2001, Vol. 32, p35-45, M. Sobrabi, T. Kaghazchi and A. Molaei A New Air Operated Contractor for Liquid-Liquid Extraction

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, p72-6, A. Hashemi and M. Roshani Resin-in-Pulp Method for Uranium Separation from Leached Ore Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 22, p31-7, H. Ghafourian, A.M. Latifi, and F. Maleksadeh Adsorption and Concentration of Uranium by a New Species of Bacillus Bacterium MGL-75

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, p17-24, M. Kiaii and B. Samani

Preliminary Investigation of Ore Processing of U, Th, Rare Earth Elements and Fe-Bearing Ore Minerals From Anomaly No. 5 of Sag Hand Ore Field, Applying Electrophorus Method

Metallurgical and Materials Transactions B, 2001, Vol. 32, p5-10, S.K. Sadrnezhaad and E.K. Alamdari

Thermodynamcis of Extraction of ReO₄⁻ from Aqueous Sulfuric Acid Media with Tri-n-Butyl Phosphate Dissolved in Kerosene

Journal of Supercritical Fluids, 2001, Vol. 20, p163-9, M. Shamsipur, A.R. Ghiasvand, and Y. Yamini

Extraction of Uranium from Solid Matrices Using Modified Supercritical Fluid CO2

Chemical and Engineering Technology, 2001, Vol. 24, p173-, M. Sohrabi, T. Kaghazchi and A. Molaei Application of an Air Operated Impinging Streams Contractor in Liquid-Liquid

Extraction

Canadian Journal of Chemical Engineering, 2001, Vol. 24, 501-, M. Sohrabi Application of an Air Operated Two Impinging Steams extractor in Liquid-Liquid Extraction and Comparison with Other Contractor Types

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, p29-37, K. Saberyan, M.M. Ghanadi, H. Ashtari and H. Nejat Liquid-Liquid Extraction of Molybdenum (VI) From Acidic Media with Cyanex-301

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, A. Nilchi, M. Ghannadi Maragheh and A. Khanchi Properites, Ion-Exchange Behvaior and Analytical Applications of Cerium Phosphate Cation Exchnagers Suitable for Column Use

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p16-28, P. Rahnama, N. Vaghefi, and A.R. Assadi Regional Evaluation and Selection of Target Areas for Uranium in Central Iran Using Gigs Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p39-47, M. Noaparast, B. Samani, and R. Asgari Uranium and Copper Processing of Dochan Deposit by Column and Rotating Bottle Leaching

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p48-55, K. Fatemi and M. Madadi

Separation of Chloride Ion from Leach Liquor and Its Effect on Uranium Analysis Followed by Solvent Extraction

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p68, A. Nilchi, A. Khanchi, and M.Ghanadi Maragheh The Importance of Cerium Subsituted Phosphates as Cation Exchanger: Some Unique Properties and Related Application Potential

Journal of Sciences, Islamic Republic of Iran, 2002, Vol. 13, p75-80, M.F. Rahimi, H. Peyrovan, and A. Izadpanah Measurement of D_2O in Water using ²H(gamma,n)¹H Reaction

Separation Science and Technology, 2002, Vol. 37, p481-92, M. Shamsipur and F. Raouli Separation Study of Strontium through a Bulk Liquid Membrane Containing Decyl-18-Crown-6

Talanta, 2002, Vol. 56, p383-93, A. Nilchi, A. Khanchi and M. Ghanadi Maragheh The Importance of Cerium Substituted Phosphates as Cation Exchanger - Some Unique Properties and Related Application Potentials

Talanta, 2002, Vol. 58, p237-46, M. Sahamsipur, A. Soleymanpour, M. Akhoud, H. Sharghi, and A.R. Massah Uranyl-Selective PVC Membrane Electrodes Based on Some Recently Synthesized Benzo-Subsituted Macrocyclic Diamides

Industrial and Engineering Chemistry Research, 2002, Vol. 41, p5842-5847, M. Arjomand, M.M. Akbarnejad and H. Hossein Structural Catalytic Packing for Reaction-Distillation Columns

Journal of Nuclear Science and Technology, 2002, Vol. 25, p0, M. Nouparast, R. Asgari and B. Samani Uranium and Copper Processing of Dochan Deposit by Column and Rotating Bottle Leaching

Journal of Radioanalytical and Nuclear Chemistry, 2002, Vol. 254, p545-50, H. Faghihian and M.A. Mackizadeh Adsorption of Radioactive Iodine by Two Natural Zeolites AIChE Journal, 2002, Vol. 48, p2230-39, A.M. Dehkordi Liquid-Liquid Extraction with Chemical Reaction in a Novel Impinging-Jets Reactor

World Journal of Microbiology and Biotechnology, 2002, Vol. 18, p599-602, *F. Malekzadeh, *A.M. Latifi, **M. Shahamat, **M. Levin, and **R.R. Colwell *University of Tehran **University of Maryland, Biotechnology Institute Effects of Selected Physical and Chemical Parameters on Uranium Uptake by the Bacterium Chryseomonas MGF-48

Iranian Journal of Nuclear Science and Technology, 2002, Vol. 25, p0, P. Rahnema, N. vaghefi and A.R. Assadi Regional Evaluation and Selection of Target Areas for Uranium in Central Iran using GIS

Chemical Engineering and Technology, 2002, Vol. 25, p1087-94, *H. Bahmanyar and **M.J. Slater*Chemical Engineering Department, University of Tehran, Iran **Department of Chemical Engineering, University of Bradford, UK Assessment of a New Type of Liquid-Liquid Extraction Column

Hydrometallurgy, 2003, Vol. 68, p11-21, K. Rezaei and H. Nedjate Diluent Effect on the Distribution Ratio and Separation Factor of Ni (II) in the Liquid-Liquid Extraction from Aqueous Acidic Solutions Using Dibutyldithiophosphoric Acid

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 26, p61-8, M. Madnejad, A. Alaghband, and N. Nozari Application of Laboratory Column Leaching Tests in Heap Leaching Technique

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 28, p1-7, H. Ghafourian, H.S. Rafiee, M.M. Tehrani, A. Ahmadi, and A. Nafar Feasibility for Separation of Stable and Radioisotope of Molybednum Isotopes with Bio-Filter Using Microorganism

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 29, p31-8, K. Fatemi Extraction of Uranium from Anomali Ores No. 1, 6, and 8 in salt Domes of Bandar Abbas Region using Column Leaching by Seawater in Sulfuric Acid Medium

Radiation Physics and Chemistry, 2003, Vol. 66, p167-77, A. Nilchi, A. Khanchi, M. Ghanadi Maragheh and A. Bagheri Investigation of the Resistance of Some Naturally Occurring and Synthetic Inorganic Ion Exchangers against Gamma Radiation

Separation and Purification Technology, 2003, Vol. 31, p261-8, M.R. Yaftian, L. Hassanzadeh, M.E. Eshraghi and D. Matt Solvent Extraction of Thorium (IV) and Europium (III) Ions by Diphenyl-N,N-Dimethylcarbamoylmethylphosphine Oxide From Aqueous Nitrate Media Iranian Journal of Chemistry and Chemical Engineering, 2003, Vol. 22, p71-6, M.R. Yaftian, M.E. Eshraghi and L. Hassanzadeh Extractive Properties of Tri-n-Octylphosphine Oxide towards Thorium (IV) and Europium (III) Ions in Aqueous Nitrate Media

Journal of Sciences, Islamic Republic of Iran, 2003, Vol. 14, p239-45, H. Faghihian, A. Malekipour, and M.G. Maragheh Modification of Clinoptilolite by Surfactant for Molybate ⁹⁹Mo Adsorption from Aqueous Solutions

Adsorption Science and Technology, 2003, Vol. 21, p373-81, H. Faghihian, A. Malekpour, and M.G. Maragheh Removal of Radioactive Iodide by Surfactant-Modified Zeolites

Minerals Engineering, 2003, Vol. 16, p391-3, K. Saberyan, M. Ghannadi Maragheh, P. Ashtari and S.K. Alamdari Liquid-Liquid Extraction of Molybdenum (VI) from Acidic Media with Cyanex-301

Analytical and Bioanalytical Chemistry, 2003, Vol. 375, p698-702, S. Sadeghi, D. Mohammadzadeh, and Y. Yamini Solid-Phase Extraction-Spectrophotometric Determination of Uranium (VI) in Natural Waters

Separation and Purification Technology, 2003, Vol. 3, p261-8, M.R. Yaftian, L. Hassanzadeh, and D. Matt Solvent Extraction of Thorium (IV) and Europium (III) Ions by Diphenyl-N,N-Dimethylcarbomylmethylphosphine Oxide from Aqueous Nitrate Media

Sulfur, Silicon and the Related Elements, 2003, Vol. 178, p1225-30, *M.R. Yaftian, *R. Taheri, and **D. Matt *Zanjan University, Zanjan, Iran **Universite Louis Pasteur, Strasbourg, France Lower-RIM Polyphosphorylated Calix[4]arenas. Their Use as Extracting Agents for Thorium (IV) and Europium (III) Ions

Journal of Radioanalytical and Nuclear Chemistry, 2003, Vol. 258, p457-62, A. Nilchi, B. Malek, M. Ghanadi and A. Khanchi Exchange Properties of Cyanide Complexes: Part I. Ion Exchange of Cesium on Ferrocyanides

Radiation Physics and Chemistry, 2003, Vol. 68, p837-42, A. Nilchi, B. Malek, M. Ghanadi Maragheh and A. Khanchi Investigation of the Resistance of the Potassium Copper Nickel Hexacyanoferrate (II) Ion Exchanger against Gamma Radiation Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, M.R. Nikgofatr, A. Bahrami and A. Shoja

Optimization of Spacing between Explosion Holes in Advancing Shafts of Uranium Mine in Saghand

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, p37-48, M.E. Hekmation

Software Package Preparation Entitled: QuantInt, to be used for Quantitative Interpretation of Magnetic and Gravitational Data and Ore Sample Interpretation Exploration of Uranium

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, p49-55, M.R. Nikgoftar, A. Bahrami, and A. Shoja Optimization of Spacing between Explosion Holes in Advancing Shafts of Uranium Mine in Saghand

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, p57-63, K. Saberyan and M.M. Ghanadi Novel Method for Stripping of Molybdenum (VI) after Its Extraction Cyanex-301

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31. p9-12, H. Ghafourian, M. Rabbani, Y. Naseri, and S. Sadeghi Producing Bio-Filter for Absorbing and Separating Stable Nickel and Feasibility Study to Separate Radioactive Nickel by Microorganisms

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p29-34, N.A. Noruozi, M.T. Tahmaseb Nezami, D. Jamali, and Y. Ghanbari Evaluation of Sampling from Borehole of Khoshomi Uranium Exploration Area with Geostatistics

International Journal of Engineering, 2004, Vol. 17, p7-17, B. Bastani Stage Wise Modeling of Liquid-Extraction Column (RDC)

AIChE Journal, 2004, Vol. 48, p2230-2239, A.M. Dehkordi Liquid-Liquid Extraction with Chemical Reaction in a Novel Impinging-Jets Reactor

Journal of the Iranian Chemical Society, 2004, Vol. 1, p79-87, A.M. Abdallah, M.A. Kabil, M.A. Akl and D.S. Ismael Simultaneous Preconcentration Flotation-Separation and Spectrophotometric Determination of Thorium, Lanthanum and Yttrium in Some Geologic and Environmental Samples

Journal of Polymeric Materials, 2004, Vol. 21, p315-20, M.J. Zohuriaan-Mehr, A. Pourjavadi and M. Salehi-Rad Modified CMC. Part 3. Novel Carboxymethyl Cellulose-g-Poly(Acrylamidoxime) as a New Metal Absorbent Hydrometallurgy, 2004, Vol. 71, p371-77, K. Nazari, M. Ghannadi Maragheh and A. Jabbari Rad

Studies on Extraction of Uranium from Phosphoric Acid Using PN-1200 Extractant

Bulletin of the Korean Chemical Society, 2004, Vol. 25, p629-33, M. Shamsipur, M. Saedi, A. Yari, A. Yaganeh-Faal, M.H. Mashhadizadeh, G. Azimi, H. Naeimi, and H. Sharghi

UO2+ Ion-Selective Membrane Electrode Based on a Naphthol-Derivative Schiff's Base 2,2'-[1,2-Ethandiyl bis (nitriloethylidene)] bis(1-naphthalene)

Minerals Engineering, 2004, Vol. 17, p89-92, E. Keshavarz Alamdari, D. Morandkhani, D. Darvishi, M. Askari and D. Behnian Synergistic Effect of MEHPA on Co-Extraction of Zinc and Cadmium with DEHPA

IJE Transactions B: Applications, 2004, Vol. 17, p191-200, S.K. Sadrnezhaad and E. Keshavarz Alamdari

Thermodynamics of Extraction of Zn^{2+} from Sulfuric Acid Media with a Mixture of DEHPA and MEHPA

Separation and Purification Technology, 2004, Vol. 40, p115-21, A. Zamani and M.R. Yaftian

Solvent Extraction of Thorium, Lanthanum and Europium Ions by Bis(2-Ethylhexyl)Phosphoric Acid Using 2-Nitrobenzo-18-Crown-6 as Ion Size Selective Masking Agent

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 261, p393-400, A. Nilchi, M. Ghanadi Maragheh, A. Khanchi, M.A. Farajzadeh and A.A. Aghaei Synthesis and Ion-Exchange Properties of Crystalline Titanium and Zirconium Phosphates

Adsorption Science and Technology, 2004, Vol. 22, p707-17, H. Faghihian, M.G. Maragegh, M.K. Amini, and A.R. Nezamzadeh Thorium Ion Uptake by Zeolite A Synthesized from Natural Clinoptilolite Tuffs

Analytical Sciences, 2004, Vol. 20, p917-9, A.R. Ghiasvand and E. Mohagheghzadeh Homogenous Liquid-Liquid Extraction of Uranium (VI) Using Tri-n-Octylphosphine Oxide

Reactive and Functional Polymers, 2004, Vol. 61, p23-31, M.J. Zohuriaan-Mehr, A. Pourjavadi and M. Salehi-Rad Modified CMC. 2. Novel Carboxymethylcellulose-Based Poly9Amidoxime) Chelating Resin with High Metal Sorption Capacity Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 262, Vol. 455-9, *M.R. Yaftian, *R. Taheri, *A.A. Zamani, and **D. Matt *Zanjan University, Zanjan, Iran **Universite Louis Pasteur, Strasbourg, France Thermodynamics of the Solvent Extraction of Thorium and Europium Nitrates by Neutral Phosphorylated Ligands

Iranian Journal of Chemical Engineering, 2005, p10-24, H. Abolghasemi, M.A. Moosavian, H. Bahmanyar and M. Ghanadi Maragheh The Effects of Operational Parameters on the Efficiency of a Mixer-Settler Extractor

Analytica Chimica Acta, 2005, Vol. 530, p55-60, A. Safavi and M. Bagheri A Novel Optical Sensor for Uranium Determination

Iranian Polymer Journal, 2005, Vol. 14, p131-8, M.J. Zohuriaan-Mehr, A. Pourjavadi and M. Sadeghi Modified CMC. 1. Optimized Synthesis of Carboxylmethyl Cellulose-g-Polyacrylonitrile

Hydrometallurgy, 2005, Vol. 77, p227-38, D. Darvishi, D.F. Haghshenas, E. Keshavarz Alamdari, S.K. Sadrnezhaad, and M. Halali Synergistic Effect of Cyanex 272 and Cyanex 302 on Separation of Cobalt and Nickel by D2EHPA

Physica B: Condensed Matter, 2005, Vol. 358, p247-55, S.M. Baizee and A. Pourghazi Ab Initio Calculation of Electronic Structure and Electric Field Gradient in Pu_3Sn and $PuSn_3$

Journal of Radioanalytical and Nuclear Chemistry, 2005, Vol. 264, p577-82, H. Faghihian, M.K. Amini, and A.R. Nezamzadeh Cerium Uptake by Zeolite A Synthesized from Natural Clinoptilolite Tuffs

Analytical and Bioanalytical Chemistry, 2005, Vol. 382, p1159-62, M. Shamsipur, J. Tashkhourian, and H. Sharghi Development of a PVC-Membrane Ion-Selective Bulk Optode, for UO₂²⁺ Ion, Based on Tri-n-Octylphosphine Oxide and Dibenzoylmethane

Materials Engineering, 2005, Vol. 18, p1233-38, K. Nazari, A. Ghadiri, and H. Babaie Elimination of Cadmium from Wet Process Phosphoric Acid with Alamine 336

Analytical Letters, 2005, Vol. 38, p1813-21, M.R. Ganjali, L.H. Babaei, P. Norouzi, M.R. Pourjavid, A. Badiei, K. Saberyan, M.G. Maragheh, M.S. Niasari, G.M. Ziarani Novel Method for the Fast Separation and Purification of Molybdenum (VI) from Fission Products of Uranium with Aminofunctionalized Mesoporous Molecular Sieves (AMMS) Modified by Dicyclohexyl-18-Crown-6 and SN Tetradentate Schiff's Base Iranian Journal of Crystallography and Mineralogy, 2005, Vol. 13, p329-36, H. Kazemian, K. Ghaffari and M. Noorian Synthesis and Characterization of Zeolite A, using Fly Ash of the Iran ferrosilice Company and Investigating its Properties

Separation and Purification Technology, 2005, Vol. 40, p2527-37, F. Shemirani, R.R. Kozani, M.R. Jamali, Y. Assadi, and S.M.R. Milani Micelle Mediated Extraction for Direct Spectrophotometric Determination of Trace Uranium (VI) in Water Samples

Separation and Purification Technology, 2005, Vol. 41, p73-82, M. Toraj, M. Ahmad, S. Mohtada, and R. Amir Modeling of Metal Ion Removal from Wastewater by Electrodialysis

Separation and Purification Technology, 2006, Vol. 49, p71-5, M.R. Yaftian, A.A. Zamani, and S. Rostamnia Thorium (IV) Ion-Selective Transport through a Bulk Liquid Membrane Containing 2-Theonyltrifluoroacetone as Extractant-Carrier

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 36, p19-26, K. Nazari and R. Mahmoudi Separation of Uranium from Anomaly No. 60 Khoshoomi Region Leaching Solution

Electronic Journal of Biotechnology, 2006, Vol. 9, p100-06, M.H. Khani, A.R. Keshtkar, B. Meysami, M.F. Zarea, and R. Jalali

Biosorption of Uranium from Aqueous Solutions by Nonliving Biomass of Marine Algae Cystoseira Indica

Journal of the Iranian Chemical Society, 2006, Vol. 3, p253-7, H. Sepehrian, M.K. Rofouei and S.W. Husain Non-Thermal Synthesis of Meso Porous Zirconium Silicate and its Characterization

Radiation Physics and Chemistry, 2006, Vol. 75, p301-8, A. Nilchi, B. Maalek, A. Khanchi, M. Ghanadi Maragheh and A. Bagheri Cerium (VI) Molybdate Cation Exchanger: Synthesis, Properties and Ion Separation Capabilities

Journal of Radioanalytical and Nuclear Chemsitry, 2006, Vol. 267, p685-90, R. Yavari, A.R. Khanchi, M.G. Maragheh, and S. Waqif-Husain Sorption of Radionuclides on Thorium Tungstophosphate: A New Inorganic Ion-Exchanger

Journal of Radioanalytical and Nuclear Chemsitry, 2006, Vol. 269, p223-5, M. Sadeghi, B. Shirazi, and N. Shadanpour

Solvent Extraction of No-Carrier-Added ¹⁰³Pd from Irradiated Rhodium Target with Alpha-Furyldioxime

Iranian Journal of Chemistry and Chemical Engineering, 2006, Vol. 25, p9-15, H. Abolghasemi, M.A. Mousavian S.R. Radpour The Effects of a Surfactant Concentration on the Mass Transfer in a Mixer-Settler Extractor

Journal of the Brazilian Chemical Society, 2006, Vol. 17, p1020-26, A. Niazi Spectrophotometric Simultaneous Determination of Uranium and Thorium Using Partial Least Squares Regression and Orthogonal Signal Correction

Canadian Journal of Chemical Engineering, 2006, Vol. 84, p375-80, M.M. Montazer-Rahmati, S.J. Safdari and H. Akhgari Dependence of Holdup on Height in a Pulsed Plate Column Based on Binary Liquid-Liquid Equilibrium Data

Journal of Hazardous Materials, 2006, Vol. A137, p1271-6, A. Nilchi, A. Khanchi, H. Atashi, A. Bagheri, and L. Nematollahi The Application and Properties of Composite Sorbents of Inorganic Ion Exchangers and Polyacrylonitrile Binding Matrix

Journal of Radioanalytical and Nuclear Chemsitry, 2006, Vol. 270, p357-61, *M.R. Yaftian, *M.R. Razipour, and **D. Matt *Zanjan University, Zanjan, Iran **Universite Louis Pasteur, Strasbourg, France Extraction of Thorium (IV) and Europium (III) by a Phosphorylated Calix[4]arene in Dichloromethane

Quarterly Journal of Applied Chemistry, 2007, Vol. 3, p37-9, M. Monsefi, N. Vaziri and A. Hojabri

Optimized Chemical Precipitation of Strontium-90 from Radioactive Waste Solutions

Hydrometallurgy, 2007, Vol. 85, p17-23, M. Mozammel, S.K. Sadrnezhaad, E. Badami, and E. Ahmadi

Breakthrough Curves for Adsorption and Elution of Rhenium in a Column Ion Exchange System

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 39, p42-6, G. Nozad, M. Asgari and M. Ghannadi Maragheh

Cathodic Adsorptive Stripping Voltametric Determination of Uranium(VI) Complexed with Citrate

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 39, p47-53, M.R. Jamalifar

Catalytic Destruction of Spent Dowex Cation Exchange Resin, using Hydrogen Peroxide

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 40, p47-52, M.R. Ghaderi, Nezami Tahmaseb and E. Jamili Grade Estimation of the Khoshomi Uranium Prospect by Applying Logging Data and XRF Analytic Results

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 41, p15-20, E. Torabian, Aga Jan Pour and M.J. Daraei Geology and Mineralization Studies of Radioactive Minerals in Bafgh-Saghand Metalogenic Zone (Zarigan)

Journal of Chemical Engineering of Japan, 2007, Vol. 40, p17-25, H. Bahmanyar, F. Ghasempour and J. Safdari Dispersed Phase Hold-Up in a Vertical Mixer Settler in With and Without Mass Transfer Conditions

Iranian Journal of Chemistry and Chemical Engineering, 2007, Vol. 26, p61-71, F. Shohreh, F. Zarnagh, H. Kalantari, M.S. Zeynab Ion Exchange Column Performance Model for Separation of Zr(IV) and Hf(IV) in Elution Process

Geosciences, 2007, Vol. 17, p100-07, M. Pakdel, B. Rezaei, R. Asgari and K. Nazari Feasability Study of Khushoomi Uranium Ore Concentration with Magnetic and Electrostatic Methods

Journal of Hazardous Materials, 2007 May 10, Epub ahead of print, M.H. Khani, A.R. Keshtkar, M. Ghannadi and H. Pahlavanzadeh Equilibrium, Kinetic and Thermodynamic Study of the Biosorption of Uranium onto Cystoseria Indica Alage

Journal of Radioanlaytical and Nuclear Chemistry, 2007, Vol. 273, p141-5, A.R. Khanchi, R. Yavari, and S.K. Pourazarsa Preparation and Evaluation of Composite Ion-Exchanger for the Removal of Cesium and Strontium Radioisotopes

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 43, p41-9, M. Pkadel, B. Rezaei, R. Asgari and K. Nazari Characterization and Determination of Liberation Degree of Khoshoomi Uranium Ore (Block 1)

Bulletin of the Korean Chemical Society, 2008, Vol. 29, p94-8, K. Saberyan, M. Shamsipur, E. Zolfonoun and M. Salavati-Niasari Liquid-Liquid Distribution of the Tetravalent Zirconium, Hafnium and Thorium with a New Tetradentate Naphthol-Deriative Schiff Base Radiochimica Acta, 2008, Vol. 96, p105-9, H. Sepehrian, R. Yavari, M. Ghannadi Maragheh and S.W. Husain Sorption of Radionuclides on Mesoporous Sn(IV) Silicate: A New Sorbent

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p1-8, A.R. Khanchi, H. Rafati and M.R. Rezvaniyanzadeh Recovery of Some Rare Earth Elements from Leach Liquor of the Saghand Uranium Ore using Combined Precipitation and Cation Exchnage Methods

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p19-23, A. Nilchi, G. Abolhasanloo, M.R. Yaftian and G. Rasouli Synthesize and Invetigation of Hydrous Cerium Oxide Exchange Properties for ¹⁴⁰Ba and ⁹⁰Sr Cations – Determination of Distribution Coefficient for ¹⁵²Eu and ¹³⁴Cs cations

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p40-4, A. Ghadiri, A. Hajati, A.H. Alaghband, R. Asgari and A. Valivand Design of Thickener for Separation of Acidic Leach Liquor from Residual Solid Particles from Bandar Abas Uranium Plant

The Journal of Supercritical Fluids, 2008, Vol. 44, p148-54, H.S. Ghaziaskar and M. Kaboudvand Solubility of Trioctylamine in Supercritical Carbon Dioxide

Journal of Radioanalytical and Nuclear Chemistry, 2008, Vol. 275, p145-53, H. Sepehrian, M. Ghannadi-Maragheh, S. Waqif-Husain, R. Yavari and A.R. Khanchi Sorption Studies of Radionuclides on a Modified Mesoporous Cerium(IV) Silicate

Analytica Chimica Acta, 2008, Vol. 607, p183-90, A. Beiraghi and S. Babaee Separation and Preconcentration of Ultra Trace Amounts of Beryllium in Water Samples using Mixed Micelle-Mediated Extraction and Determination by Inductively Coupled Plasma-Atomic Emission Spectrometry

Journal of Radioanalytical and Nuclear Chemsitry, 2008, Vol. 275, p427-32, M.K. Mahani, M. Chaloosi, A.R. Khanchi, M. Ghannadi Maragheh, B. Salami and F. Asgharizadeh

A New Method for Simultaneous Determination of ²²⁶Ra and Uranium in Aqueous Samples by Liquid Scintillation Using Chemometrics

Hydrometallurgy, 2008, Vol. 90, p115-20, M. Taghizadeh, R. Ghasemzadeh, S.N. Ashrafizadeh, K. Saberyan and M. Ghanadi Maragheh Determination of Optimum Process Conditions for the Extraction and Separation of Zirconium and Hafnium by Solvent Extraction Separation Science and Technology, 2008, Vol. 43, p597-608, A.B. Monji, S.J. Ahmadi and E. Zolfonoum

Selective Biosorption of Zirconium and Hafnium from Acidic Aqueous Solutions by Rice Bran, Whear Bran and Platanus Orientalis Tree Leaves

Journal of Hazardous Materials, 2008, Vol. 150, p612-8, M.H. Khani, A.R. Keshtkar, M. Ghannadi and H. Pahlavanzadeh

Equilibrium, Kinetic, and Thermodynamic Study of the Biosorption of Uranium onto Cysteria indica Algae

Journal of Radioanalytical and Nuclear Chemsitry, 2008, Vol. 278, p97-102, M.H. Mallah, F. Shemirani and M. Ghannadi Maragheh

Use of Dispersive Liquid-Liquid Microextraction for Simultaneous Preconcentration of Samarium, Europium, Gadolinium and Dysprosium

Journal of University of Science and Technology Beijing, Mineral, Metallurghy, Material, 2008, Vol. 15, p367-374, E. Jorjani, A.H. Bagherieh, S. Mesroghli and S.C. Chelgani

Prediction of Yttrium, Lanthanum, Cerium, and Neodymium Leaching Recovery from Apatite Concentrate using Artificial Neural Neworks

Journal of Hazardous Materials, 2008, Vol. 153, p695-700, T. Madrakian and F. Ghazizadeh

Cloud-Point Preconcentration and Spectrophotometric Determination of Trace Amounts of Molybdenum(VI) in Steels and Water Samples

Journal of Hazardous Materials, 2008, Vol. 158, p583-590, S. Shariati, Y. Yamini and M.K. Zanjani

Simultaneous Preconcentration and Determination of U(VI), Zr(IV) and Hf(IV) Ions in Aqueous Samples using Micelle-Mediated Extraction Coupled to Inductively Coupled Plasma-Optical Emission Spectrometry

Chinese Journal of Chemistry, 2008, Vol. 26, p2067-2072, K. Saberyan, A.H. Meysami, F. Rashchi and E. Zolfonoun Proposal of a New Hf(IV)/Zr(IV) Separation System by the Solvent Extraction Method

Energy, 2009, Vol. 34, p14-21, A. Niksiar and A. Rahimi Energy and Energy Analysis for Concurrent Gas Spray Cooling Systems based on the Results of Mathematical Modeling and Simulation

Drying Technology, 2009, Vol. 27, p30-9, A. Rahimi and A. Niksiar Application of Markov Chain Analysis and Tanks-in-Series Model in Mathematical Modeling for Impinging Stream Dryers Journal of Nuclear Science and Technology, 2009, Vol. 46, p33-42, M. Yazdi, K. Khoshnoodi, M. Kavand and A.R. Ashteyani Stream-Sediment Geochemical Exploration for Uranium in Narigan Area Central Iran

Mineral Processing and Extractive Metallughy Review, 2009, Vol. 30, p260-268, M. Taghizadeh, R. Ghasemzadeh, M. Ghandai Maragheh and S.N. Ashrafizadeh Crud Formation in the Solvent Extraction System Zr(IV), HNO₃-D2EHPA

Chemical Engineering Science, 2009, Vol. 64, p618-9, A. Niksiar and A. Rahimi On the Validity of the Rate Expression of Calcination Reaction of UO₃ Reported by Dussoubs et al. (2003)

World Academy of Science, Engineering and Technology, 2009, Vol. 55, p137-139, S. Ghaffari Tooran, H. Abolghasemi, H. Bahmanyar, M. Esmaeili and A. Safari A New Correlation for Overall Sherwood Number in Packed Liquid-Liquid Extraction Column

Mineral Processing and Extractive Metallurghy Review, 2009, Vol. 30, p260-268, M. Taghizadeh, R. Ghasemzadeh, M. Ghanadi Maragheh and S.N. Ashrafizadeh Crud Formation in the Solvent Extraction System Zr(IV), HNO₃-D2EHPA

Iranian Journal of Chemistry and Chemical Engineering, 2009, Vol. 28, p85-93, F. S. Gharehbagh and S.M.A. Mousavian Hydrodynamic Characterization of Mixer-Settlers in Extraction of Zirconium with TBP

Journal of the Taiwan Institute of Chemical Engineers, 2009, Vol. 40, p302-312, F.S. Gharehbagh and S.M.A. Mousavian Hydrodynamic Characterization of Mixer-Settlers

Chemical Engineering and Processing: Process Intensification, 2009, Vol. 48, p1105-1111, A. Khakpay, H. Abolghasemi and A. Salami-Khorshidi The Effects of a Surfactant on Mean Drop Size in a Mixer-Settler Extractor

Isotope Production and Separation

Deuterium:

Thesis:

M. Ahmadi, Thesis (M.S.), Amirkabir University of Technology, July 1999 Optimizing Design Parameter for Light Isotopes Separation by Distillation Method

Conference Papers:

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, A.G. Gharib The Importance of Heavy Water in Nuclear Technology

International Conference on Nuclear Energy and Sustainable Development, Tehran, Iran March 5-6, 2005, M. Madadi

Factors Affecting the Process of Selection and Design of the Arak Heavy Water production Plant

Journal Articles:

Nuclear Technology, 1997, Vol. 120, p149-57, *D.A. White, *S. Assabumrungrat, and **A. Moheb

Optimization of Electrolytic Plants for Deuterium Production: Steady-State Analysis *Department of Chemical Engineering and Chemical Technology, Imperial College of Science, Technology, and Medicine, London, UK

**now at Faculty of Chemical Engineering, Isfahan University of Technology, Isfahan, Iran

Research Bulletin of Isfahan University (Science), 2001, Vol. 14, p11-20, M. Mostajab-Al-Davati

Radioisotope Production Calculations in Neutronic Design of Heavy Water Research Reactor

Pakistan Journal of Analytical Chemistry, 2003, Vol. 4, p81-5, A. Mobinikhaledi H/D Exchange in Diazine Ligands Coordinated to Co(III) and Their Related Quaternized Salts in Alkaline D₂0 Solution using NMR Spectroscopy – A Case for Comparison

Iranian Journal of Chemistry and Chemical Engineering, 2004, Vol. 23, p51-9, M. Kheradmand and E. Esmailzadeh

Numerical Study of Gas Absorption into Liquid Film on the Inside Wall of a Pipe

Cyclotron Related Isotope Production Studies:

Documents/Reports:

H. Afarideh and I. Al Jammaz, Technical Report Series No. 432, IAEA, Vienna, 2004 Standarized High Current Solid Targets for Cyclotron Production of Diagnostic and Therapeutic Radionclides

Thesis:

N. Shadanpour, Thesis (M.S.), September 1993 Description of Cyclotron-30 Particle Accelerator B. Akbari, Thesis (M.S), August 1995, All-Union Research Institute for Power Plant, Moscow Production of Tl²⁰¹ and Ga⁶⁷ Radiopharmaceuticals by Cyclotron

B. Akbari, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, August 1995 Production of Tl²⁰¹ and Ga⁶⁷ Radiopharmaceuticals by Cyclotron

Conference Papers:

Particle Accelerator Conference, Washington, DC, May 17-20, 1993, H. Ayvazian A New Design for an EMIS-Cyclotron System, for Direct Production of Gaseous PET Radioisotopes

Proceedings of the 14th International Conference on Cyclotrons and their Applications, Cape Town, South Africa, 1995, S.M. Hadjii-Saied, H. Afarideh and A. Amirbadi The NRCAM Cyclotron Facility

Proceedings of the 14th International Conference on Cyclotrons and their Applications, Cape Town, South Africa, 1995, S.M. Hadjii-Saied, H. Afarideh and A. Amirbadi Production of ⁶⁷Ga by Irradiation of Natural Zinc with Deutrons in NRCAM Cyclotron

Proceedings of the 14th International Conference on Cyclotrons and their Applications, Cape Town, South Africa, 1995, S.M. Hadjii-Saied, H. Afarideh and A. Amirbadi Improving the Energy Resolution of the 30 MeV Cyclotron Proton Using the Designed Achromatic System

International Conference on Cyclotrons and Their Applications, Caen, France, 1998, M. Mirzaei

Production of ¹¹¹In by Irradiation of Natural Cadmium with Deutrons and Protons in NRCAM Cyclotron

International Conference on Cyclotrons and Their Applications, Caen, France, 1998, A.R. Mahlou

Design and Construction of Control System for Radioisotope Production through Gas Target

Conference on the Applications of Physics and Nuclear Science in Medicine and Industry, Tehran, February 7, 2000, K. Nazari, M. Ghannadi Maragheh, and M. Shamsaiee

A New Method of Separation of ¹³¹I

International Nuclear Conference 2002: Global Trends and Perspectives, Kuala Lumpur, Malaysia, October 15-18, 2002, A.R. Ghahremani and R. Javanshire Production and Quality Control of Ir¹⁹² for Application in Medicine in Iran

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A. Sattari, P. Rowshanfarzad, N.K. Dehghan, and N. Shadanpour Production of ⁶⁴Cu for Targeted Radiotheraphy of Cancer

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, L. Moghaddam-Banaem Automatic Production of Iodine-123 with PLC/135

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, P.B. Saeidi Production of ¹⁸⁶Re via Cyclotron

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A.R. Ghahramani and M.R. Ghaahramani Production of Seed Source ¹²⁵I for Treatment of Eye and Prostrate Cancer

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A.R. Ghahremani, H. Ghafourian, and H. Pourbeigi Production of ¹⁸⁶Re for Endovascular Brachytherapy

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, P.S. Bidokhti, D. Sardari, B. Fateh and J. Jalilian Production of ¹⁸⁶Re via Cyclotron

Eurasian Conference on Nuclear Science and Its Application, Tashkent, Uzbekistan, October 5-8, 2004, M. Gourani and B. Nabardi Production of ¹²⁵I Radioisotope in Sodium Iodide Solution and Its Application

5th International Conference on Isotopes, Brussels, Belgium, April 25-29, 2005, Sattari Production of Ga-66 from Natural Zinc

International Nuclear Chemistry Congress, Kusadasi, Turkey, May 22-9, 2005, *M. Sadeghi, **H. Afarideh, and ***P. Winkel *Faculty of Engineering, Islamic Azad University, Tehran **Nuclear Research Center for Agriculture and Medicine, Karaj ***VUB Cyclotron, Laarbeeklaan, Brussels, Belgium Electro Dissolution System for Fragmented Electroplated Rhodium Targets used for the Industrial Cyclotron Production of Palladium-103

International Nuclear Energy Congress, Kusadasi, Turkey, May 22-9, 2005, M. Sadeghi, B. Shirazi, and H. Afarideh Solvent-Solvent Extraction of Carrier Free ¹⁰³Pd from the Rhodium Irradiated by alpha-Furyl Dioxime International Symposium on Trends in Radiopharmaceuticals, Vienna, Austria, November 14-18, 2005, A.R. Jalilian, P. Rowshanfarzad, M. Mirzaii, M. Sabet, A. Ziaee and D. Sardari A Semi-Automated [¹³N]NH₃ Production Module: Design, Quality Control and Optimization

Journal Articles:

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 17, p31-43, M. Aboudzadeh, H. Afarideh, and S.M. Haji Saeid Choosing a Suitable Nuclear Reaction in ^{81m}Kr Radiopharmacy Production

Scientific Bulletin of the Atomic Energy Organization of Iran, 1999, Vol. 19, p34-8, K. Ardaneh, M. Mirzaii, J. Moafian and M. Zakerzadeh Separation and Purification Chemistry of In-111 Produced in a Cyclotron

Journal of Radioanalytical and Nuclear Chemistry, 2001, Vol. 249, p665-7, S.M. Hadji Saied Chemical Processing of ¹²³I with a Modified Bio-Rex 5 Resin

Iranian Journal of Radiation Research, 2003, Vol. 1, p51-4, I. Sattari, G. Aslani, M.K. Dehghan, B. Shirazi, M. Shafie, N. Shadanpour, and P.V. Winkel Dependence of Quality of Thallium-201 on Irradiation Data

Iranian Journal of Radiation Research, 2003, Vol. 1, p119-24, M. Mirzaii, H. Afarideh, S.M. Haji-Saied, G.R. Aslani and M.R. Ensaf Production of ¹⁸F Fluoride with a High-Current Two Layer Spherical Gold Target

Nukleonkia, 2004, Vol. 49, p23-7, M. Mirzali, H. Afarideh, S.M. haji-Saied, G.R. Salani and M.R. Ensaf Production of ¹⁸F Fluoride with a High-Current Two Layer Spherical Gold Target

Iranian Journal of Radiation Research, 2004, Vol. 2, p45-51, P. Rowshanfarzad, A.R. Falilian and M. Sabet Simultaneous Production and Quality Control of ⁷³Se and ⁷⁵Se Radioisotopes in a 30 MeV Cyclotron

Applied Radiation and Isotopes, 2004, Vol.60, p659-63, A.R. Jalilian, P. Rowshanfarzad, H. Afarideh, A. Shafiee, M. Sabet, M. Kyoumarsi, and G.R. Raisali Synthesis of ⁷⁵Se-Ethoxycarbonyl-4-Methyl-1,2,3-Selenadiazole

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 262, p665-72, M. Sadeghi, P. Van den Winkel, H. Afarideh and M. Haji-Saied Thick Rhodium Electrodeposition on Copper Backing as the Target for Production of Palladium-103 Iranian Journal of Radiation Research, 2005, Vol. 3, L. Moghadam-Banaem and H. Afarideh Design of a PLC System for Automatic I-123 Production

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 32, p49-54, R. Rowshanfarzad, M.T. Bahreyni, H. Afarideh and M. Sabet Design and Manufacturing of New Target Holders for Solid Targets in IBA-Cyclone 30 Accelerators

Nukleonika, 2005, Vol. 50, p97-103, P. Rowshanfarzad and R. Jalilian Production and Quality Control of ⁶⁵Zn Radionuclide

Journal of Radioanalytical and Nuclear Chemistry, 2005, Vol. 265, p455-8, M. sadeghi, H. Afarideh, K. Ardaneh, M. Klyomarsi and M. Mirzali Crack-Free, Thick, Rhodium Deposition on Copper Substrate Using Rhodex Solution

Alasbimn Journal, 2006, Vol. 8, pAJ31-5, A. Sattari, N. Shadanpoor, G. Aslani, and A. Rahiminejad Production of Ga-66 from Natural Zinc

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 35, p51-4, B. Shirazi Study and Development Recuperation of Thallium-203 from Bombarded Targets of this Metal in Production of Thallium-201 via Addition of Thallium-201 Radioisotope as a Tracer

Radiochimica Acta, 2006, Vol. 94, p217-21, M. Sadeghi, H. Afarideh and P. Van den Winkel

Electroplating/Electrodissolution/Recover Cycle for Rhodium Target used for an Industrial Scale Cyclotron Production of Palladium-103

Applied Radiation and Isotopes, 2006, Vol. 64, p337-41, A.R. Jalilian, P. Rowshanfarzad, M. Sabet, and A. Shafiee Preparation of ⁶¹Cu-2-Acetylpyridine Thiosemicarbazone Complex as a Possible PET Tracer for Malignancies

Annals of Nuclear Energy, 2006, Vol. 33, p786-93, M.K. Marashi, G. Raisali, and F. Bolouri

Investigation of ${}^{203}\text{Tl}_{81}(p,3n){}^{201}\text{Pb}_{82}$ Nuclear Reaction in a Cyclotron Accelerator as a Neutron Source

Applied Radiation and Isotopes, 2006, Vol. 64, p940-7, G. Raisali, N. Hajiloo, S. Hamidi, and G. Aslani

Analysis of Neutron and Gamma-Ray Steaming Along the Maze of NRCAM Thallium Production Target Room Applied Radiation and Isotopes, 2006, Vol. 64, p1563-73, P. Rowshanfarzad, M. Sabet, A.R. Jalilian, M. Kamalideghhan

An Overview of Copper Radionuclides and Production of ⁶¹Cu by Proton Irradiation of ^{nat}Zn at a Medical Cyclotron

Indian Journal of Chemistry: Section A, 2007, Vol. 46, p1615-7, N. Dallali, M. Ghanbari, **B**.Fatah

Liquid-Liquid Extraction of Ultra Trace Amounts of Technetium Produced by ¹⁰⁰Mo(p, 2n) ^{99m}Tc Nuclear Reaction in Cyclotron

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 40, p19-24, N. Hajiloo, G. Raisali, S. Hamidi and G. Aslani Determination of Intensity and Energy Spectrum of Neutrons by Bombardment of Thallium-203 Thick Target and its Copper Substrate with 28.5 MeV Protons

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 42, p38-45, M. Ghasemi, M. Mirzaei, B. Fateh, A. Zarandi Mosavi, G. Aslani, N. Shadanpoor, P. Roshan Farzad and M. Ensaf

Design and Fabrication of a Target for ⁸⁷Y Production

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 45, M. Sadeghi, H. Afarideh, M.E. Ensaf, N. Shadanpour and M. Kiyomarsi Selection of Suitable Reaction and Determination of Irradiation Parameters for Palladium-103 Production

Nukleonika, 2008, Vol. 53, p155-60, M. Sadeghi, M. Amiri, P. Rowshanfarzad, M. Ensaf and Z. Gholamzadeh

Thick Zinc Electrodeposition on Copper Substrate for Cyclotron Production of ⁶⁴Cu

Nukleonika, 2008, Vol. 53, p155-160, M. Sadeghi, M. Amiri, P. Rowshanfarzad, Z. Gholamzadeh and M. Ensaf Thick Zinc Electrodeposition on Copper Substrate for Cyclotron Production of ⁶⁴Cu

Radiochimica Acta, 2008, Vol. 96, p399-402, *M. Sadeghi, *M. Amiri, *P. Roshanfarzad, **M. Avila and ***C. Tenreiro

*Nuclear Medicine Research Group, Agricultural, Medical and Industrial Research School, Karaj, Iran

***Faculty of Engineering, University of Talca, Talca, Chile

****Cyclotron Department, Chielan Nuclear Energy Commission, Santiago, Chile Radiochemical Studies Relevant to the No-Carrier-Added Production of ^{61,64}Cu at a Cyclotron

Journal of Radioanalytical and Nuclear Chemistry, 2008, Vol. 277, p645-650, M. Mirzaee, M. Sadeghi, Z. Gholamzadeh and S. lahouti Thick Silver Electrodeposition on Copper Substrate for ¹⁰⁹Cd Production

Applied Radiation and Isotopes, 2008, Vol. 66, p1281-1286, *M. Sadeghi, **M. Dastan, *M.R. Ensaf, **A. Abaspour Tehrani, ***C. Tenreiro and ****M. Avila *Nuclear Medicine Research Group, Agricultural, Medical and Industrial Research School, Karaj, Iran **Faculty of Engineering, Islamic Azad University, Tehran, Iran ***Faculty of Engineering, University of Talca, Talca, Chile ****Cyclotron Department, Chielan Nuclear Energy Commission, Santiago, Chile Thick Tellurium Electrodeposition on Nickel-Coated Copper Substrate for ¹²⁴I Production

Radiochimica Acta, 2009, Vol. 97, p51-56, A.R. Jalilian, A. Panahifar, M. Mahmoodi, M. Akhlaghi and A. Simchi

Preparation and Biological Evaluation of ⁶⁷Ga-Labeled Superparamagnetic Nanoparticles in Normal Rats

Applied Radiation and Isotopes, 2009, Vol. 67, p7-10, M. sadeghi, M. Aboudzadeh, A. Zali, M. Mirzaii and F. Bolourinovin Radiochemical Studies Relevant to ⁸⁶Y Production via ⁸⁶Sr(p,n) ⁸⁶Y for PET Imaging

Radiochimica Acta, 2009, Vol. 97, p113-116, M. Sadeghi, M. Mirazaee, Z. Gholamzadeh, A. Karimian and F. Bolouri Novin Targetry and Radiochemistry for No-Carrier-Added Production of ¹⁰⁹Cd

Applied Radiation and Isotopes, 2009, Vol. 67, p1392-1396, M. Sadeghi, M. Aboudzadeh, A. Zali and B. Zeinali ⁸⁶Y Production via ⁸⁶Sr(p,n) for PET Imaging at a Cyclotron

Applied Radiation and Isotopes, 2009, Vol. 67, In Press, M. Sadeghi, A. zali, M. Aboudzadeh, P. Sarabadan, G. Aslani and A. Majdabadi Targetry of SrCO₃ on a Copper Substrate by Sedimentation Method for the Cyclotron Production of No-Carrier-Added ⁸⁶Y

Reactor Related Isotope Production:

Thesis:

K. Nazarie, Thesis (M.S.), Amirkabir Technical University, Department of Physics and Nuclear Science, Teheran, Iran, July 1999 Designing a Separation Process of Radioactive Iodine Produced from Irradiation of Natural Uranium

F.E. Fakhari, Thesis (PhD), Der Phillips-Universitat Marburg, Germany, 2006 Separation and Purification of ¹¹¹In from Irradiated Cadmium Targets by Solid Phase Extraction (SPE) Method for Medical Application

Conference Papers:

International Conference on Research Reactor Utilization, Safety, Decommissioning, Fuel and Waste Management, Santiago, Chile, November 10-13, 2003, A.R. Ghahremani, M.R. Javanshir, R. Naghdi, H. Safiee and J. Solymani Utilization oof 4 MW Tehran Research Reactor by Production of Industrial and Medicine Radioisotope

Eurasian Conference on Nuclear Science and its Application, Tashkent, Uzbekistan, Ocotber 5-8, 2004, B. Nabardi and M. Gourani Production of I-125 Radioisotope in Sodium Iodide Solution

Journal Articles:

Applied Radiation and Isotopes, 1994, Vol. 45, p155-8, M.A.W. Mondal and M. Doroudian Burnup Calculations to Estimate the Effect of Chemical Shim "Boron" on the Production and Depletion of Heavy Isotopes in a PWR

Applied Radiation and Isotopes, 2001, Vol. 55, p605-8, K. Nazari, M. Ghannadi-Maragheh, M. Shamsaii and H. Khalafi A New Method for Separation of ¹³¹I, Produced by Irradiation of Natural Uranium

Research Journal of the University of Isfahan, 2001, Vol. 14, p11-20, A.L. Mostajab and M. Davati

Radioisotope Production Calculations in Neutronic Design of Heavy Water Research Reactor

Annals of Nuclear Energy, 2003, Vol. 30, p883-95, R. Sayareh, M. Ghannadi Maragheh and M. Shamsaie

Theoretical Calculations for the Production of ⁹⁹Mo using Natural Uranium in Iran

Annals of Nuclear Energy, 2004, Vol. 32, p331-41, H. Khalafi and M. Gharib Optimization of ⁶⁰Co Production using Neutron Flux Trap in the Tehran Research Reactor

Iranian Journal of Nuclear Science and Technology, 2005, Vol. 34, p1-6, R. Yavari, A.R. Khanchi, H. Rafii, M.G. Maragheh and M.A. Farajzadeh Radiochemical Separation of ¹¹¹In from Cd and Cu by Ion Exchange Chromatography

Annals of Nuclear Energy, 2005, Vol. 32, p331-41, H. Khalafi and M. Gharib Optimization of ⁶⁰Co Production Using Neutron Flux Trap in the Tehran Research Reactor Annals of Nuclear Energy, 2005, Vol. 32, p729-40, H. Khalafi, K. Nazari, M. Ghannadi-Maragheh Investigation of Efficient ¹³¹I Production from Natural Uranium at Tehran Research Reactor

Journal of Radioanalytical and Nuclear Chemistry, 2005, Vol. 264, p679-86, M. Tabasi, M. Ghannadi-Maragheh, M. Shamsail, and A.R. Khanchi Separation of ¹³³Xe from ⁹⁹Mo, ¹³¹I and Uranium, and Removal of Impurities using Gas Chromatography

Annals of Nuclear Energy, Article in Press, 2008, F. Faghihi, H. Havasi and M. Amin-Mozafari Plutonium-239 Production Rate Study using a Typical Fusion Reactor

Plasma Focus Breeding Studies:

Journal Articles:

Journal of Fusion Energy, 2009, Vol. 28, p268-274, A.A. Zaeem, S.M.Sadat Kiai, M. Sedaghatizade, S. Adlparvar and S. Sheibani Activities Study of Short-Lived Radioisotopes with a Filippov-Type Plasma Focus

Chemical Isotope Exchange:

Journal Articles:

Journal of Sciences, Islamic Republic of Iran, 1997, Vol. 8, p156-60, M.H. Pournaghi-Azar and R. Zargharian Electrochemical Behavior of U(VI) Nitrate in Chloroform at a Mercury Electrode: the Dependence on Supporting Electrolyte

Polyhedron, 1998, Vol. 17, p3809-15, M. Shamsipur, E. Karkhaneei and A. Afkhami Lithium-7 NMR Study of the Exchange Kinetics of the Lithium Ion with Cryptand C221 in Methanol Solution Temperature Dependence of the Exchange Mechanism

Journal of Nuclear Science and Technology (AEOI), 1999, Vol. 19, p1-9, M.R. Rezvanianzadeh, M.F. Zareh, A.R. Khanchi, M. Ghannadi Maragheh, and Y. Yamini Orthogonal Array Design for the Optimization of Reduction of U (VI) to U (IV)

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 21, p34-41, S. Alamdar Milani, S.J. Ahmadi, B. Mianji, M. Zanjanipour, A.R. Khanchi and M. Channadi Maragheh Production and Stability of Uranium (III)

Electromagentic Isotope Separation Related Technology

Conference Papers:

Meeting of Nuclear Physicists and Experts of Iran, Shariz, February 20-1, 2002, H. Rafii, M. Mirzaei, N. Mirzajani, D. Sardari, I. Shahabi, and F. Majedi NAA Analysis of Zn⁻⁶⁸

Meeting of Nuclear Physicists and Experts of Iran, Shariz, February 20-1, 2002, G. Aslani The Design and Construction of Four Finger

EMIS-14: Conference on Electromagnetic Isotope Separations, Victoria, Canada, May 2002, A.J. Novinrooz, H. Bakhtiari, H. Sadri, M.R. Asadollahi, M. Ghasemi, M.Mohati, H. Seyedi, M. Sharbatdaran, M.M. Eshani, P. Balashabadi, P. Sarabadani, H. Nourkojouri, J. Garousi, and B. Zeynali Enrichment of Stable Isotope by 180⁰ Electromagnetic Isotope Separator in "NRCAM" Iran

EMIS-14: Conference on Electromagnetic Isotope Separations, Victoria, Canada, May 2002, A.J. Novinrooz, H. Bakhtiari, H. Sadri, M.R. Asadollahi, M. Ghasemi, M.Mohati, H. Seyedi, M. Sharbatdaran, M.M. Eshani, P. Balashabadi, P. Sarabadani, H. Nourkojouri, J. Garousi, and B. Zeynali Enrichment of Thallium 203 Isotope by 180⁰ Electromagnetic Isotope Separator

5th International Conference on Isotopes, Brussels, Belgium, April 25-29, 2005, Mohati Enrichment of Ni-58 by Electromagnetic Isotope Separator

Journal Articles:

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 28, p19-22, A.J. Novinrooz, H. Bakhtiari, P. Sar Abadani, H. Sadri, Z. Asadollahi, H. Seyedi, M.R. Ghasemi, M. Mohati, M. Sharbatdaran, M. Eshani, H. Noorkajouri, J. Gharousi and B. Zeinali Separation of Thallium Isotope ²⁰³Tl by 180⁰ Electromagnetic Isotope Separator

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 37, p35-8, J. Garousi, H. Noorkojouri, P. Sarabandi and B. Zeinali

Recovery of Mo-98 Enriched Stable Isotope from Graphite Collector of EMIS and its Chemical Purification

Gas Centrifuge Related Research:

Vacuum Technology:

Conference Papers:

10th ISME Conference, Khajehnasir University, Tehran, Iran, 2002, S.M. Hosseinalipour,
A. Amoli and R. Ebrahimi
3-D Simulation of Free Molecular Flow Within Axial-Turbo Molecular Pump

9th Asian Conference of Fluid Mechanics, Isfahan, Iran, 2002, S.M. Hosseinalipour, A. Amoli and R. Ebrahimi Effect of Non-Parallel Blades on Axial-Turbo Molecular Pump Performance

10th Annual Conference of the CFD Society of Canada, June 2002, S.M. Hosseinalipour,
A. Amoli and R. Ebrahimi
3-D Simulation of Free Molecular Flow Within Spiral-Grooved Molecular Pump

36th AIAA Thermophysics Conference, Orlando, Florida, June 23-26, 2003, A. Amoli, H. Hoseinalipour, and R. Ebrahami Direct Simulation of Free Molecular Flow in Fully 3-D Axial Rotor

11th Annual Conference of the CFD Society of Canada, 2003, A. Amoli, R. Ebrahimi and S.M. Hosseinalipour The Rotor-Stator Performance of a Turbomolecular Pump with a Real Topology

24th International Symposium on Rarefied Gas Dynamics, May 16, 2005, S.M.

Hosseinalipour, R. Ebrahami and A. Amoli

A New Procedure for Desigining Blade Arrangement of a Turbomolecular Pump

Proceedings of the International Conference on Recent Advances in Mechanical and Materials Engineering, Kuala Lumpur, Malaysia, May 30-1, 2005, S. Ziaei-Rad and M. Jafari

Balancing of Flexible Rotors without Trail Runs using a Real-Code Genetic Algorithm

Journal Articles:

Journal of Thermophysics and Heat Transfer, 2004, Vol. 18, p148-51, S.M. Hosseinalipour, A. Amoli, and R. Ebrahimi Direct Simulation of Free Molecular Flow in Fully Three-Dimensional Axial Rotor

Vaccum, 2004, Vol. 72, p427-38, A. Amoli, R. Ebrahimi, and S.M. Hosseinalipour Some Features of Molecular Flow in a Rotor-Stator Row with Real Topology Vacuum, 2004, Vol. 75, p361-6, A. Amoli and S.M. Hosseinalipour A Continuum Model for Pumping Performance of Turbomolecular Pumps in all Flow Regimes

Vacuum, 2004, Vol. 72, p427-438, A. Amoli, R. Ebrahami and S.M. Hosseinalipour Some Features of Molecular Flow in a Rotor-Stator Row with Real Topolgy

Journal of Sound and Vibration, 2004, Vol. 274, p985-995, M. Behzad and A.R. Bastami Effect of Centrifugal Force on Natural Frequency of Lateral Vibration in Rotating Shafts

Iranian Journal of Science and Technology, Transactions B, Engineering, 2006, Vol. 30, p327-37, A.D. Rahmatabadi and R. Rashidi Effect of Mount Angle on Static and Dynamic Characteristics of Gas-Lubricated, Noncircular Journal Bearings

Journal of Dispersion Science and Technology, 2010, To be published, M. Shams and M. Taghavi

Mathematical Simulation of Free Molecular Flow in a 3-D Turbomolecular Pump with Non-Parallel Blades

Inverter/Switching Related Technology

Conference Ppaers:

ELECO99 International Conference on Electrical and Electronics Engineering, 1999, M. Tarafdar Haque and S.H. Hosseini A High Quality Multi-Level VSI Suitable for High Power/ High Voltage Applications

IEEE International Sympsoium on Industrial Electronics, Pusan, South Korea, 200, S.H. Hosseini and E. Babaei A New Generalized Direct Matrix Converter

Proceedings of the 35th Southeastern Symposium on System Theory, March 16-18, 2003, S.M.R. Rafaei Neural Network Based Adaptive Phase and Amplitude Equalizer for Optimal and Robust

Control of the Current Regulated PWM Inverters

Proceedings of the 10th IEEE International Conference on Electronics, Circuits and Systems, December 14-17, 2003, E. Babaei, A. Aghagolzadeh, S.H. Hosseini and S. Khanmohammadi

A New Structure for Three-Phase to Single-Phase AC/Ac Matrix Converters

IECON 2004, 30th Annual Conference of the IEEE Industrial Electronics Society, November 2-6, 2004, S.H. Hosseini and A. Ajami Voltage regulation and Transient Stablity Enhaancement of a Radial DC Transmission System using UPFC TENCON 2004, November 21-24, 2004, S.H. Hosseini and M. Almaleki A New Online Optimal Controller for 2-Cell Multicell Inverter

TENCON 2004, November 21-24, 2004, S.H. Hosseini and M.R. Banaei Performance of Active Power Line Conditioner for Loss Reduction in the Power Distribution System

Fizika-2005, Baku, Azerbaijan, June 7-9, 2005, M. Kalantar, N.M. Tabatabaei and M. Rashidi

Control and Simulation of Fault and Change Effect in a Back to Back System of High Voltage Direct Current Network

Proceedings of the Eighth International Conference on Electrical Machines and Systems, Nanjing, China, September 29, 2005, E. Babaei, M.T. Haque and S.H. Hosseini A Novel Structure for Multilevel Converters

PESC '06, 37th IEEE Power Electronics Specialists Conference, Jeju, June 18-22, 2006, S.H. Hosseini and M. Sababi A New Bi-Directional ZVS Inverter by Estimated Phase Shifting for Non-Linear Loads

SICE-ICASE, Busan, October 18-21, 2006, S.H. Hosseini and A.Y. Goharrizi Harmonic Optimization of Asymmetrical Voltage-Cancellation Control for Full-Bridge Series Resonant Inverters

SICE-ICASE, Busan, October 18-21, 2006, E. Babaei, S.H. Hosseini, G.B. Gharehpetian and M. Sabahi A New Switching Strategy for 3-Phase to 2-Phase Matrix Converters

Canadian Conference on Electrical and Computer Engineering, Niagra Falls, Ontario, Canada, May 4-7, 2008, S.H. Hosseini, M.B. Sharifian, M. Sababi, A. Yazdanpanah and G.H. Gharehpetian Bi-Directional Power Electronic Transformer for Induction Heating Systems

SPEEDAM 2008, International Symposium on Power Electronics, Electrical Drives, Automation and Motion, Ischia, japan, June 11-13, 2008, S.H. Hosseini and E. Babaie Comparison of Two General Control methods for 3-Phase to 2-Phase Direct Converters

Journal Articles:

Energetikanin Problemleri, 2002, Vol. 4, M.R. Banaei and S.H. Hosseini Multilevel Converter based on Hysteresis Current Control for Speed Control of Induction Motor with Field Oriented Control Iranian Journal of Science and Technology, Transactions B: Engineering, 2002, Vol. 26, p679-686, M. Tarafdar Haque and Seyyed Hassan Hosseini A High Quality Multi-Level Voltage Source Inverter Suitable for High Power/ High Voltage Applications

Journal of the Faculty of Engineering (University of Tabriz), 2003, Vol. 29, p1-13, H. Barati, S.H. Hosseini and E. Javaheri Amplitude Reduction of Harmonics of Output Voltage of a Three-Phase PWM Inverter using Parallel Transitors

Journal of the Faculty of Engineering (University of Tabriz), 2004, Vol. 30, p1-11, S.H. Hosseini, M. Tarafdar Hagh, H. Veladi and B. Bahrami Design, Simulation and Implementation of Static VAR Compensator Based on Instantaneous Reactive Power Theory

Iranian Journal of Electrical and Computer Engineering, 2006, Vol. 5, p97-102, M. Nasir Uddin, T.S. Radwan and M.A. Rahman Performance Analysis of a Cost Effective 4-Switch 3-Phase Fed IM Drive

Iranian Journal of Science and Technology, Transaction B: Engineering, 2006, Vol. 30, A. Kazemi, M.S.M. Badejani and M.A.S. Masoum Analysis and Control of Voltage Harmonics Generated by Thyristor Controlled Series Capacitors

ELECO2007, Turkey, 2007, K.G. Forouzjah, S.B. Samani, M.B. Sharifian and T. Herizchi

A Single Phase Six-Switch Inverter with Two Fix and Variable Output Voltages

Nashriyyah-I Muhandesi-I Barq Va Muhandesi-I Kampyutar, 2007, Vol. 5, p32-40, M. Nayeripour, V. Yazdian, M. Mohamadian and H.R. Mohammadi Design and Control of Three-Phase Shunt Active Power Filter using the Sliding Mode Control and Energy Feedback

Journal of the Faculty of Engineering (University of Tabriz), 2007, Vol. 34, p49-62, M.E. Golshan Hamedani, Nia S. Hossein and M.M. Jokar State Feedback Control of Dynamic Voltage Restorer

Electric Power Systems Research, 2007, Vol. 77, p1073-1085, E. Babaie, S.H. Hosseini, G.B. Gharehpetian, M. Tarafdar Haque and M. Sabahi Reduction of dc Voltage Sources and Switches in Asymmetrical Multilevel Converters using a Novel Topology

Journal of the Faculty of Engineering (University of Tabriz), 2008, Vol. 35, p69-81, A. Yazdanpanah, S.H. Hosseini and M. Sabahi Design and Implementation of PWM Controlled High-Frequency Inverter with Soft-Switching Attribute for Induction Heating Applications Iranian Journal of Science and Technology, Transaction B: Engineering, 2009, Vol. 33, p179-189, K. Pourhosseini and Mohhamd S. Naderi Surge Suppression using a Fuzzy Hysteresis-Band Controlled Resistor Array

International Journal of Computer and Electrical Engineering, 2009, Vol. 1, p237-245, M.B.B. Sharifian, R. Rahnavard and Y. Ebrahimi Variable Hysteresis Band Current Controller of Shunt Active Filter Based Fuzzy Logic Theory under Constant Switching Frequency

Journal of Zhejiang University of Science: A, 2009, Vol. 10, p890-899, R. Noroozian, M. Abedi, G.B. Gharehpetian and S.H. Hosseini A Novel Control Strategy for Load Converter of DC Isolated Distribution System for Unbalanced Loading Conditions

International Journal of Electrical Power and Energy Systems, 2009, Article in press, E. Babaei, S.H. Hosseini and G.B. Gharehpetian Reduction of THD and Low order Harmonics with Symmetrical Output Current for Single-Phase AC/AC Matrix Converters

Energy Conversion and Management, 2009, Vol. 50, p2761-2767, E. Babaei and S.H. Hosseini New Cascaded Multilevel Inverter Topology with Minimum Number of Switches

Magnetic Material Related Research:

Conference Papers:

INTERMAG92, April 13-16, 1992, *K.G. Knoch, **A. Kianvash and ***I.R. Harris *Department of Pure and Applied Physics, Trinity College, Dublin, Ireland ** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK Nd-Fe-B-Cu Processed Sintered Magnets: Up-Graded Properties and Microstructure

Twelfth International Workshop on Rare-Earth Magnets and Their Applications, July 12-5, 1992, Canberra, Australia, *A. Kianvash and **I.R. Harris *Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK ** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran Magnetic Properties of a 2:17-Type Sm(Co, Cu, Fe, Zr)8.92 Cast Magnet

First Regional Conference on Magnetic and Superconducting Materials, September 1999, Iran, H.R. Madaad Hosseini, M. Akhavan, H. Yoozbashizadeh, M. Seyed Reihani and A. Kianvash The Influence of Heat Treatment on the Magnetic Properties of

Nd11.9MM2.8Fe73.9Co3.3Ni1.1B6.9 Sintered Magnets

Proceedings of the 16th International Workshop on RE Magnets and their Applications, September 2000, Japan, H.R.Madaah Hosseini, A. Kianvash, M. Seyed Reihani and H. Yoozbashizadeh

Binary Powder Blending Technique (BPBT): An Effective Method in Production of (Nd, MM)2(Fe,Co,Ni)14B – Type Corrision Resistant Magnets

INTERMAG20033, March 28 – April 3, 2003, E. Fallah, J.S. Moghani and H.A. Talebi Modeling of Magnetic Hystersis using Counter Propagation Neural Network

Proceedings of Euro PM, October 2003, Spain, H.R. Madaah Hosseini and A. Kianvash Microstructural and Mechanical Effects of a MM38.2Co46.4Ni15.4 Alloy Additions to a Nd-Fe-B Sintered Magnet

Journal Articles:

Journal of Materials Science Letters, 1984, Vol. 3, p18-20, *A. Kianvash and **I.R. Harris

*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK ** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran A Correlation between Magnetic and Mechanical Hardness in Some Sm₂(Co, Cu, Fe, Zr)₁₇-Type Magnets

Journal of Materials Science, 1984, Vol. 19, p353-8, *A. Kianvash and **I.R. Harris *Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK ** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran Coercivity Dependence of a Sm₂(Co, Cu, Fe, Zr)₁₇ Type Alloy on Magnetic Processing Procedure

Journal of the Less-Common Metals, 1984, Vol. 98, p93-108, *A. Kianvash and **I.R. Harris

*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK ** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran Metallographic Studies of a 2-17-Type Sm(Co, Cu, Fe, Zr)_{8.92} Magnetic Alloy

Journal of Materials Science, 1985, Vol. 20, p8682-8, *A. Kianvash and **I.R. Harris *Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK ** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran Hydrogen Decrepitation as a Method of Powder Preparation of a 2-17-Type Sm(Co, Cu, Fe, Zr)_{8.92} Magnetic Alloy

Journal of Applied Physics, 1991, Vol. 70, p6453-5, *A. Kianvash and **I.R. Harris *Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK ** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran Magnetic Properties of the Sintered Magnets Produced from a Nd-Fe-B-Cu-Type Material Journal of Alloys and Compounds, 1992, Vol. 178, p325-41, *A. Kianvash and **I.R. Harris

*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK ** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran The Effect of Heat Treatment on the Microstructure and Magnetic Properties of Sintered Magnets Produced from Nd-Fe-B Based Alloys with or without Copper Substitution

Journal of Alloys and Compounds, 1992, Vol. 182, p223-31, *A. Kianvash, **K.G. Knoch and ***I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Pure and Applied Physics, Trinity College, Dublin, Ireland

***Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK

The Effect of the Cooling Rate on the Intrinsic Coercivity of Some Nd-Fe-B Based Permanent Magnets

Journal of Alloys and Compounds, 1992, Vol. 183, p54-8, *A. Kianvash, **K.G. Knoch and ***I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Pure and Applied Physics, Trinity College, Dublin Ireland ***Department of Metallurgy and Materials, University of Birmingham, Birmingham,

UK

Nd-Fe-B Based Magnets: Magnetic Properties and Microstructural Appearance with Copper Addition

IEEE Transactions on Magnetics, 1992, Vol. 28, p2142-4, *A. Kianvash, **K.G. Knoch and ***I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Pure and Applied Physics, Trinity College, Dublin Ireland

***Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK

Nd-Fe-B-Cu HD-Processed Sintered Magnets: Properties and Microstructure

Journal of Alloys and Compounds, 1998, Vol. 279, p245-51, *A. Kianvash and **I.R. Harris

* Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK The Influence of Free Iron on the Hydrogen Decrepitation Capability of some Nd(Pr)-Fe-

B Alloys

Materials Science and Engineering. Part A, Structural Materials, 1998, Vol. 258, p173-180, *R.A. Buckley and **S. Kaviani

*Department of Engineering Materials, University of Sheffield, Sheffiled, UK

**Currently at Imam Hossein University (IRGC), Tehran, Iran

Some Aspects of Rapid Solidification Processing of Fe-Al-X Alloys

Journal of Materials Science, 1999, Vol. 34, p45-52, *S.A.S. Ebrahimi, **C.B. Ponton, **I.R. Harris and **A. Kianvash

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK Characterization and Optimization of the Coercivity-Modifying Nitrogenation and Re-Calcination Process for Strontium Hexaferrite Powder Synthesized Conventionally

Journal of Materials Science, 1999, Vol. 34, p53-8, *S.A.S. Ebrahimi, **C.B. Ponton, **I.R. Harris and **A. Kianvash

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK Comparative Effects of the Hydrogen and Nitrogen Gas Treatment and Recalcination (GTR) Routes on the Composition, Microstructure, and Magnetic Properties of Conventionally Synthesized Sr-Heaxferrite

Journal of Alloys and Compounds, 1999, Vol. 282, p213-9, *A. Kianvash and **I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK The Production of a Nd₁₆Fe₇₆B₈ Sintered Magnet by the Hydrogen Decrepitation/Hydrogen Vibration Milling Route

Journal of Alloys and Compounds, 1999, Vol. 283, p282-8, *R.S. Mottram, **A. Kianvash and *I.R. Harris

*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK * *Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Ir The Use of Metal Hydrides in Powder Blending for the Production of NdFeB-Type Magnets

Journal of Alloys and Compounds, 1999, Vol. 287, p206-14, *A. Kianvash, **R.S. Mottram and **I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK Densification of a Nd₁₃Fe₇₈NbCoB₇-Type Sintered Magnet by (Nd,Dy)-Hydride Additions using a Powder Blending Technique

IEEE Transactions on Magnetics, 1999, Vol. 35, p4232-7, J. Faiz and H. Jafari Two-Dimensional Magnetic Field Analysis of Internal-Rotor Permanent-Magnet Motors

Journal of Alloys and Compounds, 2000, Vol. 298, p319-23, H.R. Madaah Hosseini, A. Kianvash, M. Seyyed Reinhani and H. Yoozbashi Zadeh Production of (Nd,MM)₂(Fe,Co,Ni)₁₄B-Type Sintered Magnets using a Binary Powder Blending Technique

Ceramics International, 2000, Vol. 26, p379-81, *S.A.S. Ebrahimi, **C.B. Ponton, **I.R. Harris and *A. Kianvash

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK The Effect of Hydrogen on Composition, Microstructure and Magnetic Properties of Strontium Hexaferrite

Iranian Journal of Crystallography and Mineralogy, 2001, Vol. 9, p37-45, M. Mozaffari and J. Amighian Mechanochemical Preparation and Magnetic Properties of Ultrafine Strontium Ferrite

Mechanochemical Preparation and Magnetic Properties of Ultrafine Strontium Ferrite Powders

Journal of Alloys and Compounds, 2001, Vol. 314, p251-6, H.R. Madaah Hosseini, A. Kianvash, M. Seyyed Reinhani and H. Yoozbashi Zadeh A Correlation between Intrinsic Coercivity-Electrical Conductivity-Thermal Treatment in

a $Nd_{11.9}MM_{2.9}Fe_{73.9}Co_{3.3}Ni_{1.1}B_{6.9}$ -Type Magnet

Journal of the American Cermaics Society, 2001, Vol. 84, p1184-6, A. Hosseinpour and A. Zakery

Investigation of Magnetic Force for Barium and Strontium Ferrites

Physica Stati Solidi B, 2001, Vol. 227, p563-7, A. Hosseinpour and H. Sadeghi Anistropy Variation with Order-Disorder Transition in Magnetite

Iranian Journal of Science and Technology, 2002, Vol. 26, p1-10, *A. Kianvash, **K.G. Khoch and ***I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran **Department of Pure and Applied Physics, Trinity College, Dublin Ireland ***Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK

Microstructural Investigations on Nd-Fe-B-Cu Sintered Magnets

International Journal of Engineering, 2002, Vol. 15, p87-96, A. Kianvash Effect of Post-Sintering Annealing Treatment on Magnetic Properties of Some Nd-fe-B Based Magnets

Iranian Journal of Crystallography and Mineralogy, 2004, Vol. 12, p93-104, K. Nekoee, S. Heshmatimanesh and A. Ataei

Effects of Thermo-Magnetic Heat Treatment on Microstructure and Magnetic Properties of Alnico 5DG Alloy

Physica Status Solidi (C), 2004, Vol. 1, p1719-23, *M.R. Alinejad, *A. Amirabadizadeh, *N. Tajabor, **F. Pourian and ***H. Kanekiyo *Department of Physics, Ferdowsi University of Mashhad, Mashhad, Iran **Carnegie-Mellon Institute, Carnegie-Mellon University, Pittsburgh, PA. ***Sumitomo Special Metals Co. Ltd., Osaka, Japan Magnetostriction and Thermal Expansion of Polymer-Bonded Nd₄Fe_{77.5}B_{18.5} Nanocomposite

Journal of Magnetism and Magnetic Materials, 2004, Vol. 281, p92-6, H.R. Madaah Hosseini and A. Kianvash The Dala of Milling Atmosphere on Mismetrystyme and Magnetic Properties of a

The Role of Milling Atmosphere on Microstructure and Magnetic Properties of a $Nd_{12.8}Fe_{79.8}B_{7.4}$ -Type Sintered Magnet

Iranian Journal of Materials Science and Engineering, 2004, Vol. 1, p7-22, S. Kaviani and P.H. Marashi TEM Investigation of Rapidly Solidified NdFeB Hard Magnetic Material

Physica Status Solidi (C), 2004, Vol. 1, p3284-7, S.A. Seyyed Ebrahimi The Effect of Ball Milling Before and After Calcination on the Magnetic Properties of HTR Processed Strontium Hexaferrite Powder

Iranian Journal of Crystallography and Mineralogy, 2004, Vol. 12, p93-104, K. Nekoee, S.M. Heshmati and A. Ataie Effects of Thermo-Magnetic Heat Treatment on Microstructure and Magnetic Properties of ALNICO 5DG Alloy

Iranian Polymer Journal, 2005, Vol. 14, p71-9, M. Kokabi, F. Arabgol and M. Manteghian Nd₂Fe₁₄B Permanent Polymeric Composites Magnets

Materials Science and Engineering B, 2005, Vol. 123, p74-9, H.R. Madaah Hosseini and A. Bahrami

Preparation of Nanocrystalline Fe-Si-Ni Soft Magnetic Powders by Mechanical Alloying

Physica Status Solidi (A), 2006, Vol. 203, p287-93, *R. Gholamipour, *A. Beitollahi, *V.K. Marghusian, **T. Ohkubo, ***S.V. Andreev, ***A.N. Bogatkin, ***S.S. Duragin, ***A.N. Kozolov and ***N.V. Kudervatykh

*Department of Metallurgy and Materials Science, Iran University of Science and Technology, Narmark, Tehran, Iran

**National Institute for Materials Science, Tsukuba, Japan

***Institute for Physics and Applied Mathematics, Ural State University, Ekaterinburg, Russia

Microstructure-Magnetic Properties Relationships in Nanocrystalline Nd-Fe-Co-Ge-B Annealed Ribbons Journal of Magnetism and Magnetic Materials, 2006, Vol. 302, p294-296, *H.K. Fadafan, *M.R. Alinejad, *N. Tajabor, **D. Fruchart, **P. de rango, **I. Popa and ***D. Gignoux

*Department of Physics, Ferdowsi University, Mashad, Iran

**Laboratorie de Cristallographie, CNRS, Grenoble, France

***laboratorie Loius Neel, CNRS, Grenoble, France

Influence of Spin Reorientation on the Magnetoelastic Properties of NdFe_{10.5}V_{1.5}

Materials Letters, 2006, Vol. 60, p555-8, H.R. Madaah Hosseini and A. Kianvash The Effects of $MM_{38.2}Co_{46.4}Ni_{15.4}$ Alloy Additions on the Mechanical Properties of $Nd_{12.8}Fe_{79.8}B_{7.4}$ -Type Sintered Magnet

Journal of Alloys and Compounds, 2006, Vol. 419, p337-41, H.R. Madaah Hosseini, A. Dadoo, A. Dolati and A. Kianvash

A Study on the Corrosion Behavior of the (Nd, MM)₂(Fe, Co, Ni)₁₄-B-Type Sintered Magnets

The Physics of Metals and Metallography, 2006, Vol. 102, pS24-31, *A. Beitollahi, *R. Gholamipour, *V.K. Marghusian, **S.V. Andreev, **A.N. Bogatkin, **S.S. Duragin, **A.N. Kozlov, **N.V. Kudrevatykh, ***S.G. Bogdanov and ***A.N. Piogov *Department of Metallurgy and Materials Science, Iran University of Science and Technology, Narmark, Tehran, Iran

**Institute of Physics and Applied Mathematics, Ural State University, Ekaterinburg, Russia

***Institute of Metal Physics, Ural Division, Russian Academy of Sciences, Ekaterinburg, Russia

Magnetic and Structural Properties of Rapidly Quenched Nd-Fe-Co-Ge-B Alloys

The Physics of Metals and Metallography, 2006, Vol. 102, S.A. Seyyed Ebrahimi Optimization of Milling Time before and after Recalcination on HTR Processed Strontium Hexaferrite Powder

Physica Status Solidi C, 2006, Vol. 3, p3216-3219, *M.R. Alinejad, *H.K. Fadafan, *N. Tajabor, **D. Fruchart and ***D. Gignoux *Department of Physics, Ferdowsi University, Mashand, Iran **Laaboratoire de Cristallographie, CNRS, Grenoble, France ***Laboratoire Louis Neel, CNRS, Grenoble, France Anomolies in Magnetoelastic Properties in NdFe₁₀V₂ Alloy

Journal of Materials Processing Technology, 2007, Vol. 189, p1-12, H. Shokrollahi and K. Janghorban Soft Magnetic Composite Materials (SMCs) Physica B: Condensed Matter, 2007, Vol. 398, p51-4, *R. Gholamipour, **A. Beitollahi, **V.K. Marghusian and ***T. Ohkubo

*Iran Research Organization for Science and Technology, (IROST), Forsat, Tehran, Iran **Department of Metallurgy and Materials Science, Iran University of Science and Technology, Narmark, Tehran, Iran

***National Institute for Materials Sceince (NIMS), Tsukuba, Japan Cu Effects on Coercivity and Microstructure Features in Nanocrystalline Nd-Fe-Co-B Annealed Melt-Spun Ribbons

Journal of Magnetism and Magnetic Materials, 2007, Vol. 311, p702-707, *M.R. Alinejad, *N. Tajabor, *H.K. Fadafan, **D. Fruchart and ***D. Gignoux *Department of Physics, Ferdowsi University, Mashand, Iran **Laaboratoire de Cristallographie, CNRS, Grenoble, France ***Laboratoire Louis Neel, CNRS, Grenoble, France A Comparative Study of the Magnetoelastic Properties of the YFe₁₀V₂ and NdFe₁₀V₂ Compounds

Journal of Alloys and Compounds, 2008, Vol. 448, p284-286, M.R. Madaah Hosseini and N. Naghibolashraphy

The Effect of Misch-Metal Oxide Addition on Magnetic Properties and Crystal Structure of $Sr_{1-x}MM_xFe_{12}O_{19}$ Ferrite

Journal of Magnetism and Magnetic Materials, 2008, Vol. 320, 1712-1716, *M.R. Alinejad, *N. Tajabor, *H.K. Fadafan, **D. Fruchart and ***D. Gignoux *Department of Physics, Ferdowsi University, Mashand, Iran **Laboratoire de Cristallographie, CNRS, Grenoble, France ***Laboratoire Louis Neel, CNRS, Grenoble, France Influence of H and N Insertion on the Magnetostriction and Thermal Expansion of YFe₁₀V₂Z_x (Z=N,H) Compositions

Journal of Magnetism and Magnetic Materials, 2008, Vol. 320, p1884-1888, S. Falahi, M. Taheri and M. Akhavan Hall Effect and Reversal in Gd(Ba_{2-x}Nd_x)Cu₃O₇

Journal of Magnetism and Magnetic Materials, 2008, Vol. 320, p2140-2143, *M.R. Alinejad, *N. Tajabor and **F. Pourarian *Department of Physics, Ferdowsi University, Mashad, Iran **Department of Material Science and Engineering, Carnegie Mellon University, Pittsburgh, PA Study of the Magnetostrictive Strains in Pr₆Fe₁₁Ga₃ Alloy Journal of Alloys and Compounds, 2009, Vol. 468, p11-14, *M.R. Alinejad, *N. Tajabor, *H.K. Fadafan, **D. Fruchart and ***D. Gignoux *Department of Physics, Ferdowsi University, Mashand, Iran **Laaboratoire de Cristallographie, CNRS, Grenoble, France ***Laboratoire Louis Neel, CNRS, Grenoble, France Magnetostriction and Thermal Expansion of Interstitially Modified NdFe₁₀V₂Z_x (Z=N,H) Compounds

Journal of Alloys and Compounds, 2009, Vol. 480, p198-202, *D.S. Khoshnoud, *T. Tajabor, **D. Fruchart, **D. Gignoux, **S. Miraglia and ***F. Pourarian *Department of Physics, Ferdowsi University, Mashand, Iran **Laboratoire Louis Neel, CNRS, Grenoble, France ***Department of Material Science and Engineering, Carnegie Mellon University, Pittsburgh, PA Influence of Co Substitution on Magnetoelastic Properties of Er₂Fe₁₄₋₂Co_xB (X=1,3 and 5) Intermetallic Compounds

Journal of Magnetism and Magnetic Materials, 2009, Vol. 321, p3391-3395, *N. Nezakat, **R. Gholamipour, *A. Amadeh, *A. Mohammadi and ***T. Ohkubo *Faculty of Engineering, University of Tehran, Tehran, Iran **Iranian Research Organization for Science and Technology, Tehran, Iran ***National Institute for Materials Science, Tsukuba, Japan Corrosion Behavior of Nd_{9.4}Fe_{bal.}Co₆B₆Ga_{0.5}Ti_xC_x (X=0, 1.5, 3, 6) Nanocomposites Annelaed Melt-Spun Ribbons

Journal of Physics D, 2009, Vol. 42, 115410, *S.P.H. Marashi, **A. Abedi, ***S. Kavaiani, ****S.H. Aboutalebi, ****M. Rainforth and *****H.A. Davies *Mining and Metallurgical Department, Amirkabir University of Technology, Tehran, Iran

**Department of Mechanical Engineering, Imam Hossein University (IRGC), Tehran, Iran

***Materials and Energy Research Center, Karaj, Iran

****Department of Engineering Materials, Sheffield, UK

Effect of Melt-Spinning Roll Speed on the Nanostructure and Magnetic Properites of Stoichiometric and Near Stoichiometric Nd-Fe-B Ribbon Alloys

Journal of Magnetism and Magnetic Materials, 2009, In press, *D.S. Khoshnoud, *N. Tajabour, **F. Pourarian and ***H. Salamati

*Department of Physics, Ferdowsi University, Mashad, Iran

** Department of Material Science and Engineering, Carnegie Mellon University, Pittsburgh, PA

***Faculty of Physics, Isfahan University of Technology, Isfahan, Iran

Influence of Si and Co Substitution on Magnetoeleastic Properties of R_2Fe_{17} (R=Y, Er and Tm) Intermetallic Compounds

Carbon Fiber Manufacture:

Conference Papers:

Proceedings of the 7th Iran Metallurgical Engineering Society Conference, Ocotber 2003, Tehran, Iran, A. Sedghi Fabrication of Carbon Fibers from Commerical PAN Fibers

Proceedings of Polychar-13, Annual World Forum on Advanced Materials, July 3-8, 2005, Singapore, A. Sedghi Feasability Study for Fabrication of Carbon, Baslat, and Glass Fibers in Iran

Proceedings of the Ninth International SAMPE Symposium, November 29 – December 2, 2005, Tokyo, Japan, A. Sedghi The Effect of Processing Parameters on the Properties of Carbon Fibers Fabricated from Commercial Dry Spin Acrylonitrile Fiber Precursors

Journal Articles:

Material Science and Technology, 2006, Vol. 22, p1235-, A. Sedghi, A. Shokuhfar and R.E. Eslami Effect of Thermal Characteristics of Commercial and Special Polyacrylonitrile Fibers on the Fabrication of Carbon Fibers

E-polymers, 2006, No. 1, A. Sedghi Stabilization of Commercial Polyacrylonitrile Fibers for Fabrication of Low Cost Medium Strength Carbon Fibers

Fibre Chemistry, 2006, Vol. 5, p383-6, R.E. Frasani, A. Shokuhfar and A. Sedghi Fabrication of Carbon Fibres from Wet-Spun Commercial Polyacrylonitrile Fibres

Materials Science-Poland, 2007, Vol. 25, p113-20, R.E. Eslami Farsani, S. Raissi, A. Shokuhfar and A. Sedghi Optimisation of Carbon Fibres Made from Commercial Polyacrylonitrile Fibres Using the Screening Design Method

Academy of Science, Engineering and Technology, 2007, Vol. 35, p233236, E. Eslami Farsani, A. Shokuhfar and A. Sedghi Conversion of Modified Commerical Polyacrylonitrile Fibers to Carbon Fibers

Journal of Materials Processing Technology, 2008, Vol. 198, p60-67, A. Sedghi, R.E. Farsani and A. Shokuhfar The Effect of Commercial Polyacrylonitrile Fibers Characterizations on the Produced Carbon Fibers Properties International Journal of Mechanical Systems Science and Engineering, 2008, Vol. 1, p182-5, R.E. Eslami Farsani, A. Shokuhfar and A. Sedghi Conversion of Modified Commercial Polyacrylonitrile Fibers to Carbon Fibers

Proceedings of the World Academy of Science, Engineering and Technology, 2009, Vol. 38, p434437, R. Eslami Farsani, S. Raissi, A. Shokuhfar and A. Sedghi FT-IR Study of Stabilized PAN Fibers for Fabrication of Carbon Fibers

Carbon Fiber Composites:

Thesis:

H. Golestanian, Thesis (PhD), Mechanical and Engineering Department, University of Missouri-Columbia, 1997 Modeling of Process Induced Residual Stresses and Resin Flow Behavior in Resin Transfer Molded Composites with Woven Fiber Mats

S.M. Kamali, Thesis (M.Sc.), Iran University of Science and Technology, 2002 Determination of Residual Stresses in Composites

Conference Papers:

4th Manufacturing Conference, Amirkabir University, 1999, H. Golestanian Effects of Resin Cure on Stiffness Matrices of Composite Lamina with Woven Fiber Mats in RTM

AIAA/ASME/ASCE/AHS Structural Dynamics, and Materials Conference, April 2003, Norfolk, Virginia, H. Golestanian Cure Analysis in Resin Transfer Molding of a Composite Cylinder

Journal Articles:

Composite Structures, 1997, Vol. 39, p157-64, M. Darvizeh, S.T.S. Al-Hassani and H. Haftchenari An Analytical Study of Buckling of Composite Tubes with Various Boundary Conditions

Composite Structure, 1999, Vol. 44, p55-62, *C.B. Sharma, **M. Darvizeh and **A. Darvizeh

*Department of Mathematics, UMIST, Manchester, UK

**Department of Mechanical Engineering, Guilan University, Rasht, Iran Free Vibration Behavior of Helically Wound Cylindrical Shells

Composites Science and Technology, 2002, Vol. 62, p861-79, A. Shojaei, S.R. Ghaffarian and S.M.H. Karimian Numerical Simulation of Three-Dimensional Mold Filling Process in Resin Transfer Molding Using Quasi-Steady State and Partial Saturation Formulations Esteghlal, 2003, Vol. 21, p111-125, S.M.R. Khalili, M. Zohour and A. Khorrami Introducing a New Mathematical Package and Developing a Computer Package for 3-D Machining of Fiber Reinforced Polymer Composites

Composites Science and Technology, 2003, Vol. 63, p1931-48, A. Shojaei, S.R. Ghaffarian and S.M.H. Karimian Simulation of the Three-Dimensional Non-Isothermal Model Filling Process in Resin Transfer Molding

Composite Structures, 2004, Vol. 65, p381-90, A. Shojaei, S.R. Ghaffarian, S.M.H. KarimianThree-Dimensional Process Cycle Simulation of Composite Parts Manufactured by Resin Transfer Molding

Journal of Composite Materials, 2005, Vol.39, p2213-25, M.M. Shokrieh and S.M. Kamali Theoretical and Experimental Studies on Residual Stresses in Laminated Polymer Composites

International Journal of Solids and Structures, 2005, Vol. 42, p2741-2754, M. Tahani, A. Nosier and S.M. Zebarjad Deformation and Stress Analysis of Circumferentially Fiber-reinforced Composite Disks

Composite Structures, 2006, Vol. 74, p495-502, *M. Darvizeh, *H. Haftchenari, *A. Dravizeh, *R. Ansari and **C.B. Sharma *Department of Mechanical Engineering, Guilan University, Rasht, Iran **Department of Mathematics, UMIST, Manchester, UK The Effect of Boundary Conditions on the Dynamic Stability of Orthotropic Cylinders using a Modified Exact Analysis

Composites Science and Technology, 2006, Vol. 66, p1546-57, A. Shojaei A Numerical Study of Filling Process through Multilayer Preforms in Resin Injection/Compression Molding

Advanced Composites Materials, 2007, Vol. 14, p379-391, A. Vafaeesefat and A. Khani Head Shape and Winding Angle Optimization of Composite Pressure Vessels Based on a Multi-Level Strategy

Archive of Applied Mechanics, 2007, Vol. 77, p363-379, K. Daneshjou, A. Nouri and R. Talebitooti Sound Transmissions Characteristics of a Cylindrical Shell using Analytical and Experimental Models

Composite Structures, 2007, Vol. 81, p587-597, B. Farshi and R. Rabiei Optimum Design of Composite Laminates for Frequency Constraints Journal of Materials Science, 2008, Vol. 43, p6676-6681, H. Golestanian Preform Permeability Variation with Porosity of Fiberglass and Carbon Mats

Materials and Design, 2009, Vol. 30, 1976-1984, M. Abadyan, V. Khademi, R. Bagheri, H. Haddadpour, M.A. Kouchakzadeh and M. Farsadi Use of Rubber Modification Technique to Improve Fracture-Resistance of Hoop Wound Composites

Archive of Applied Mechanics, 2009, Vol. 79, M. Talebitooti, M. Ghayour, S. Ziaei-Rad and R. Talebittoti Free Vibration of Rotating Composite Conical Shelles with Stringer and Ring Stiffeners

Materials and Design, 2009, Vol. 30, p3048-3055, M. Abadyan, R. Bagheri, H. Haddadpour and P. Motamedi Investigation of the Fracture Resistance in Hoop Wound Composites Modified with Two Different Reactive Oligomers

Journal of Mechanics, 2009, Vol. 25, p299-306, K. Daneshjou, R. Talebitooti and A. Nouri Acoustic Transmission through Cylindrical Shells Treated with FLD Mechanics

Maraging Steel Related Research:

Conference Papers:

2nd Production and Manufacturing Engineering Conference, Tehran, Iran, 1995, S. Serajzadeh and A. Karimi Taheri Determination of Temperature Distribution in Hot Rod Rolling

Second International Conference of Iranian Mechnaical Engineering ISME, Shiraz, Iran, 1996, S. Serajzadeh and A. Karimi Taheri Prediction of Temperature Distribution and Microstructure in Hot Rolling of Bars and Rod

3rd Production and Manufacturing Engineering Conference, Tehran, Iran, 1996, S.
Serajzadeh and A. Karimi Taheri
Analysis of Hot Rod Rolling Using the Finite Element Method
E-MRS Fall Meeting 2005, Symposium I, *S. Hossein Nedjad, **M. Nili Ahmadabadi, and ***T. Furuhara
*University of Tehran
**Sahand University of Technology
***Kyoto University
Evolution of Precipitate Coarsening Reaction in a Nanostructured Fe-Ni-Mn Maraging Steel

Proceedings of the International Conference on Recent Advances in Mechanical and Materials Engineering, Kuala Lumpur, Malaysia, May 30-31, 2005, M.H. Parsa, A.M.A. Pazooki, and M. Nili Ahmadabadi

The Prediction Process Parameter Effects on Flow Formability in High Strength Steels Using Simulation

Proceedings of the International Conference on Recent Advances in Mechanical and Materials Engineering, Kuala Lumpur, Malaysia, May 30-31, 2005, A. Kolagar and A. Attari

Effect of Vacuum Investment Casting Variables on the Microporosity Content in Ni-Base Superalloy IN738LC

Super-High Strength Steels, Rome, Italy, November 2-5, 2005, M. Nili Ahmadabadi, S. Hossein Nedjad, M. Sadeghi, and H. Shirazi Improvement of Mechanical Properties in Fe-Mn-Ti Steel by Alloying with Cr and Mo

First International Conference on Nanoscience and Nanotechnology, Tehran, Iran, December 18-20, 2006, *M. Iranpour-Mobarake, *M. Nili-Ahmabadabi, *B. Poorganji, **T. Furuhara and *H. Shirazi

*School of Metallurghy and Materials Engineering, University of Tehran, Tehran, Iran **Institute for Materials Research, Tohoku University, Sendai, Japan Mechanical Properties of Nano-Grains Maraging Steel Prepared by ECAP Process

First International Conference on Nanoscience and Nanotechnology, Tehran, Iran, December 18-20, 2006, *S. Hossein Nedjad, *M. Nili-Ahmabadabi, **T. Furuhara, and ***T. Maki

*School of Metallurghy and Materials Engineering, University of Tehran, Tehran, Iran **Institute for Materials Research, Tohoku University, Sendai, Japan

***Department of Materials Science and Engineering, Kyoto University, Kyoto, Japan Mechanism of Ultrafine Grain Formation during Cold Rolling and Aging of Lath Martensite in a Maraging Steel

Journal Articles:

Journal of Material Processing Technology, 2004, Vol. 153-4, p209-12, H. Farhangi, S. Norouzi, and M. Nili-Ahmadabadi Effects of Casting Process Variables on the Residual Stress in Ni-Base Superalloys

Materials Science and Engineering, 2004, Vol. 378A, p314-8, S. Hossein Nedjad, M. Nili-Ahmadabadi, R. Mahmudi, and H. Farhangi Effect of Conventional and Subzero Treating on the Mechanical Properties of Aged Martensitic Fe-12 wt.% Ni-X wt.% Mn Alloys

International Journal of Machine Tools and Manufacturing, 2004, Vol. 44, p1537-45, S. Serajzadeh, S.M.H. Mirbagheri, A. Karimi Taheri, and S.M. Zebarjad Modelling of Metal Flow during Hot Forging with Regard to Microstructural Aspects

Materials Science and Engineering, 2006, Vol. 438-40A, p288-91, *S. Hossein Nedjad, **M. Nili Ahmadabadi, **R. Mahmudi, ***T. Furuhara, and ****T. Maki *Faculty of Materials Engineering, Sahand University of Technology **School of Metallurgy and Materials Engineering, University of Tehran ***Institute for Materials Research, Tohoku University ****Department of Materials Science and Engineering, Kyoto University Analytical Transmission Electron Microscopy Study of Grain Boundary Precipitates in an Fe-Ni-Mn Maraging Steel

Iranian Journal of Materials Science and Engineering, 2006, Vol. 3, p6-12, H. Arabi, M. Divandari and A.H.M. Hosseini

The Effect of Ti Content on the Amounts of Inclusions Formation and Mechanical Properties of C300 High Strength Steel

Journal of Materials Processing Technology, 2007, In press, *M.H. Parsa, *M.N. Ahmadabadi, *H. Shirazi, **B. Poorganji and *P. Pournia *School of Metallurgy and Materials Engineering, University of Tehran **Institute for Material Research, Tohoku University, Sendi, Japan Evaluation of Microstructure Change and Hot Workablity of High Nickel High Strength Steel Using Wedge Test

Journal of Materials Processing Technology, 2008, Vol. 196, p115-9, H. Sheikh and S. Serajzadeh Estimation of Flow Stress Behavior of AA5083 Using Artificial Neural Networks with Regard to Dynamic Strain Ageing Effect

Metallurgical and Materials Transactions A, 2008, Vol. 39, p19-27, *S. Hossein Nedjad, **M.N. Ahmadabadi and ***T. Furuhara

*Faculty of Materials Engineering, Sahand University of Technology, Tanriz, Iran **School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran ***Institute for Materials Research, Tohoku University, Sendai, Japan

Transmission Electron Microscopy Study on the Grain Boundary Precipitation of an Fe-Ni-Mn Maraging Steel

Materials Science and Engineering A, 2008, Vol. 473, p249-53, S. Hossein Nedjad, M.R.M. Garabagh, M.N. Ahmadabadi and H. Shirazi Effect of Further Alloying on the Microstructure and Mechanical Properties of an Fe-10Ni-5Mn Maraging Steel

Vaccum, 2008, Vol. 82, p521-8, S.R.E. Hoseini, H. Arabi and H. Razavizadeh Improvement in Mechanical Proeprties of C300 Maraging Steel by Application of VAR Process Journal of Materials Processing Technology, 2008, Vol. 199, p304-13, M.H. Parsa, M.N. Ahmadabadi, H. Shirzai, B. Poorganji and P. Pournia Evaluation of Microstructure Change and Hot Workability of High Nickel High Strength Steel Using Wedge Test

Materials Science and Engineering A, 2008, Vol. 490, p105-112, *S. Hossein Nedjad, **M.N. Ahmadabadi and ***T. Furuhaar

*Faculty of Materials Engineering, Sahand University of Technology, Tanriz, Iran **School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran ***Institute for Materials Research, Tohoku University, Sendai, Japan Correlation between the Intergranular Brittleness and Precipitation Reactions during Isothermal Aging of an Fe-Ni-Mn Maraging Steel

Materials Science and Engineering A, 2008, Vol. 491, p172-176, M. Iranpour Mobarake, M. Nili-Ahmadabadi, B. Poorganji, A. Fatehi, H. Shirazi, T. Furuhara, H. Parsa and S. Hossein Nedjad Microstructural Study of an Age Hardenable Martensitic Steel Deformed by Equal Channel Angular Pressing

International Journal of Modern Physics B, 2008, Vol. 22, p2814-2822, M. Nili-Ahmadabadi, H. Shirazi, A. Fatehi and S. Hossein-Nedjad Improvement in Mechanical Properties of Fe-Ni-Mn maraging Steel by Heavy Cold Rolling

Materials Science and Engineering A, 2009, Vol. 501, p182-187, S. Hossein Nedjad, S. Meimandi, A. Mahmoudi, T. Abedi, S. Yazdani, H. Shirazi and M. Nili Ahmadabadi Effect of Aging on the Microstructure and Tensile Properties of Fe-Ni-Mn-Cr Maraging Alloys

Materials Science and Engineering A, 2009, Vol. 503, p156-159, *S. Hossein Nedjad, **M. Nili Ahmadabadi and ***T. Furuhara

*Faculty of Materials Engineering, Sahand University of Technology, Tanriz, Iran **School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran ***Institute for Materials Research, Tohoku University, Sendai, Japan Annealing Behavior of an Ultra-Fine Fe-Ni-Mn Steel during Isothermal Aging

Scripta Materialia, 2009, Vol. 60, p528-531, S. Hossein Nedjad, J. Teimouri, A. Tahmasebifar, H. Shirazi and M. Nili Ahmadabadi A New Concept in Further Alloying of Fe-Ni-Mn Maraging Steels

Extrusion Studies:

Thesis:

R.F. Assempour, Thesis (M.S.), 2000, Sharif UniversityAnalyzing of Metal Forming Process using Physical Modeling and Finite ElementMethodM. Bagherzadeh, Thesis (M.S.), 2003, Sharif UniversityPressure Estimation in Hydroforming of Sheet Metals

Conference Papers:

Proceedings of the 10th International Conference of Mechanical Engineering, Tehran, Iran, 2002, M. Bakhshi-Jooybari and M.S. Hojjati Finite-Element Simulation and Experimental Study of Cold Aluminum Extrusion

Proceedings of the 5th Iranian Manufacturing Engineering Conference, Amirkabir University of Technology, February 17-20, 2003, D. Radmehr and M. Mosavi Parts Production by Hydroforming

Proceedings of the 12th International Conference of Mechanical Engineering of Iran, Tehran, Iran, 2004, M. Mosavi and M. Bakhshi-Jooybari Experimental Study and Finite Volume Simulation of Hot Extrusion of Steel

Proceedings of the 7th Iranian Manufacturing Engineering Conference, November 2005, H. Kashanizedeh and M. Mosavi

Parametric Analysis of Tube Hydroforming for Different Cross Sections with Use of FEM

Proceedings of the 7th Iranian Manufacturing Engineering Conference, November 2005, H. Kashanizadeh and M.M. Mosavi Analysis of Tube Hydroforming Parameters with FEM for Several Cross-Sections

Proceedings of the 13th International Conference of Mechanical Engineering of Iran, Isfahan, Iran, 2005, M. Noorani-Azad and M. Bakhshi-Jooybari Optimum Die Profile in Cold Forward Rod Extrusion

Proceedings of the 13th International Conference of Mechanical Engineering of Iran, Isfahan, Iran, 2005, M. Saboori and M. Bakhshi-Jooybari Optimum Die Profile in Cold Backword Rod Extrusion

3rd Conference of Iranian Society of Material and Metals Forming of Iran, May 2006, G. Faraji and M. Mosavi Study of the Emperical Parameters in Forming Process of Metal Bellows Proceedings of the 14th International Conference of Mechanical Engineering of Iran, Isfahan, Iran, 2006, M. Elyasi and M. Bakhshi-Jooybari Experimental Study of the Effect of Billet Geometry on Metal Flow in Precision Closed-Die Forging

Proceedings of the Japanese Spring Conference for the Technology of Plasticity, Osaka, Japan, 2006, *M. Mousavi, K.I. Mori, K. Hayasi, S. Maki and *M. Bakhshi-Jooybari *Babol Noshirvani University of Technology

**Department of Material Science and Engineering, Kyoto University, Japan Mechanism of Improvement and Shape Accuracy in Pulsating Hydroforming of Tube with Box Die

Proceedings of the International Conference on Advances in Mechanical Engineering, Punjab, India, December 1-3, 2006, F. Mohammadi, H. Kashanizadeh and M. Mosavi Finite Element Modeling and Optimization in Unequal T Joint Tube Hydroforming

AMPT2008 Conference, Maname, Bahrain, 2008, M. Elyasi, A. Gorji, M. Bakhshi-Jooybari and G. Alinejad A New Die Design for the Hydroforming of Stepped Tubes

AMPT2008 Conference, Maname, Bahrain, 2008, M. Bakhshi-Jooybari, A. Gorji, M. Hosseinzadeh, M. Jamshidi and G. Alinejad A New Sheet Hydroforming Die for Complex Industrial Parts

12th International Metal Forming Conference, Krakow, Poland, September 21-24, 2008,
M. Elyasi, M. Bakhshi-Jooybari, A. Gorji, S. Nourouzi and G. Alinejhad
Numerical and Experimental Investigation on Forming Bellows in Closed and Open-Die
Hydroforming

Journal Articles:

Journal of Materials Processing Technology, 2002, Vol. 125, p369-374, M. Bakhshi-Jooybari

A Theoretical and Experimental Study of Friction in Metal Forming by the use of the Forward Extrusion Process

Iranian Journal of Engineering, Transactions B: Applications, 2004, Vol. 17, p389-398, A. Assempour, M. Bagherzadeh and M.R. Emani An Upper Bound Approach for Analysis of Hydroforming of Sheet Metals

JSME International Journal, 2005, Vol. 48, p95-102, A. Assempour and M. Gandomkar An Energy Method for Analyzing Deep Drawing process by Simulated Annealing Optimization Algorithm Journal of Materials Processing Technology, 2005, Vol. 164-5, p1572-1577, M. Noorani-Azad, M. Bakhshi-Jooybari, S.J. Hosseinipour and A. Gorji Experimental and Numerical Study of Optimum Die Profile in Cold Forward Extrusion of Aluminum

Proceedings of the Japanese Spring Conference for the Technology of Plasticity, 2006, p7-8, *M. Lou-Mousavi, **M. Ken-Ichiro, **H. Kentaro, *M. Bakhshi-Jooybari *Mazandaran University

**Toyohashi University of Technology, Japan

Mechanism of Improvement of Formability and Shape Accuracy in Pulsating Hydroforming of Tube with Box Die

Mechanical and Aerospce Engineering Journal, 2006, Vol. 2, p41-49, G. Faraji, M. Mosavi, H. Kashani Zadeh and M.K. Besharati Experimental and Finite Element Analysis of Metal Bellows Manufacturing

Journal of Materials Processing Technology, 2006, Vol. 177, 596-599, M. Bakhshi-Jooybari, M. Saboori, S.J. Hosseinipour, M. Shakeri and A. Gorji Experimental and Numerical Study of Optimum Die Profile in Backward Rod Extrusion

Journal of Materials Processing Technology, 2006, Vol. 177, p684-687, H. Kashani Zadeh and M.M. Mashadi Finite Element Simulation and Experiment in Tube Hydroforming of Unequal T Shapes

Journal of Materials Engineering Performance, 2007, Vol. 17, p1-6, M. Ganjiani and A. Assempour

Implementation of a Robust Algorithm for Prediction of Forming Limit Diagrams

Iranian Journal of Engineering, Transactions A: Basics, 2007, Vol. 20, p55-66, M. Ganjiani and A. Assempour

The Performance of Karafillis-Boyce Yield Function on Determination of Forming Limit Diagrams

Finite Element Analysis and Design, 2007, Vol. 43, p218-233, M.H. Parsa and P. Pournia Optimization of Initial Blank Shape Predicted Based on Inverse Finite Element Method

Key Engineering Materials, 2007, Vol. 344, p461-467, M. Loh-Mousavi, K. Mori, K. Hayashi and M. Bakhshi-Jooybari

Improvement of Filling of Die Corners in Box-Shaped Tube Hydroforming by Control of Wrinkling

Journal of Materials Processing Technology, 2007, Vol. 182, p598-607, M. Ganjiani and A. Assempour

An Improved Analytical Approach for Determination of Forming Limit Diagrams Considering the Effects of Yield Functions Journal of the Faculty of Engineering (University of Tehran), 2007, Vol. 40, p881-894, H. Kashani Zadeh and M.M. Mashadi Finite Element Simulation and Experiment in Tube Hydro-Forming of Aluminum T-Shapes

Journal of Materials and Design, 2007, Vol. 28, p1812-1818, M. Bakhshi-Jooybari, M. Saboori, M. Noorani-Azad and S.J. Hosseinipour Combined Upperbound and Slab Method, Finite Element and Experimental Study of Optimum Die Profile in Extrusion

Proceedings of IMechE, PartB: Engineering Manufacture, 2007, Vol. 221, p1299-1305,F. Mohammadi, H. Kashanizade and M.M. MashadiOptimization using Finite Element Analysis, Neural Network, and Experiment in TubeHydroforming of Aluminum T Joints

Journal of Materials Engineering and Performance, 2008, Vol. 17, p1-6, M. Ganjiani and A. Assempour Implementation of a Robust Algorithm for Prediction of Forming Limit Diagrams

Steel Research Journal, 2008, Vol. 79, p184-154, M. Elyasi, M. Bakhshi-Jooybari, A. Gorji, S. Nourouzi and G. Alinejad Numerical and Experimental Investigation on Forming Metallic Bellows in Closed and Open Die Hydroforming

Proceedings of IMechE, PartB: Engineering Manufacture, 2008, Vol. 222, p467-483, A.R. Safikhani, R. Hashemi and A. Assempour The Strain Gradient Approach for Determination of Forming Limit Stress and Strain Diagrams

International Journal of Advanced Manufacturing Technology, 2008, Vol. 38, p641-648, G. Faraji, M.K. Besharati, M. Mosavi and H. Kashanizadeh Experimental and Finite Element Analysis of Parameters in Manufacturing of Metal Bellows

Proceedings of IMechE, PartB: Engineering Manufacture, 2008, Vol. 222, M. Loh-Mousavi, M. Bakhshi-Jooybari, K.I. Mori and K. Hyashi Improvement of Formability in T-Shape Hydroforming of Tubes by Pulsating Pressure

Materials and Design, 2008, Vol. 29, p1965-1972, R. Azizi and A. Assempour Applications of Linear Inverse Finite Element Method in Prediciton of the Optimum Blank in Sheet Metal Forming Iranian Journal of Science and Technology, 2008, Vol. 32, p611-618, *M. Lou-Mousavi, **M. Bakhshi, ***K. Mori, ***T. Maeno, M. Farzin and **S.J. Hosseinipour *Department of Mechanical Engineering, Islamic Azad University, Iran **Department of Mechanical Engineering, Mazandaran University, Iran ***Department of Production Systems Engineering, Toyohashi University of Technology, Japan

***Department of Mechanical Engineering, Isfahan University of Technology, Iran3-D Finite Element Simulation of Pulsating Free Bulge Hydroforming of Tubes

International Journal of Advanced Manufacturing Technology, 2009, Vol. 43, p1-10, F. Mohammadi and M.M. Mosavi

Determination of the Loading Path for Tube Hydroforming Process of a Copper Joint using a Fuzzy Controller

Computational Materials Science, 2009, Vol. 45, p195-204, A. Assempour, R. Hashemi, K. Abrinia, M. Ganjiani and E. Masoumi

A Methology for Prediction of Forming Limit Stress Diagrams Considering the Strain Path Effect

Materials and Design, 2009, Vol. 30, p727-740, A.R. Safikhani, R. Hashemi and A. Assempour

Some Numerical Aspects of Necking Solution in Prediction of Sheet Metal Forming Limits by Strain Gradient Plasticity

Proceedings of the Institute of Mechanical Engineers, Part B: Journal of Engineering Manufacturing, 2009, Vol. 223, 821-827, M. Elyasi, M. Bakhshi-Jooybari, A. Gorji, J. Hosseinipour and S. Nourouzi

New Die Design for Improvement of Die Corner Filling in Hydroforming of Cylindrical Stepped Tubes

Materials and Design, 2009, Vol. 30, p1350-1355, A. Assempour and A. Hassannejadasl Minimization of the Exit Profile Curvature in Non-Symmetric T-Shaped Sections in the Extrusion Process

Journal of Materials Processing Technology, 2009, Vol. 209, p1758-1769, A. Assempour, A.R. Safikhani and R. Hashemi An Improved Strain Gradient Approach for Determination of Deformation Locaization and Forming Limit Diagrams

Materials and Design, 2009, Vol. 30, p3824-3830, M. Elyasi, M. Bakhshi-Jooybari and A. Gorji

Mechanism of Improvement of Die Corner Filling in a New Hydroforming Die for Stepped Tubes Proceedings of the Institute of Mechanical Engineers, Part B: Journal of Engineering Manufacturing, 2009, Vol. 223, Article in press, M. Bakhshi-Jooybari, M. Elyasi and A. Gorji

Numerical and Experimental Investigation of the Effect of the Pressure Path on Forming Metal Bellows

Journal of Materials Processing Technology, 2009, Vol. 209, p3431-3437, G. Faraji, M.M. Mosavi and V. Norouzifrad Evaluation of Effective Parameters in Metal Bellows Forming Process

Materials and Design, 2009, Vol. 30, p3545-3553, R. Hashemi, A. Assempour, E.M. Khalil Abad Implementation of the Forming Limit Stress Diagram to Obtain Suitable Load Path in Tube Hydroforming Considering M-K Model

International of Material Forming, 2009, M. Elyasi, M. Bakhshi-Jooybari and A.H. Gorji A New Die Design for the Hydroforming of Stepped Tubes

International Journal of Advanced Manufacturing Technology, 2009, In press, R. Hashemi, G. Faraji, K. Abrina and A.F. Dizaji Application of the Hydroforming Strain- and Stress-Limit Diagrams to Predict Necking in Metal Bellows Forming Process

Machining Related Studies

Conference Papers:

1998 IEEE International Conference on Robotics and Automation, Leuven, Belgium,
1998, *A. Vafaeesefat and **Hoda A. Elmaraghy
*Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran
**Intelligent Manufacturing Systems Center, University of Windsor, Ontario, Canada
Accessability Analysis in 5-Axis Machining of Sculptered Surfaces

11th ESAFORM2008 Conference on Metal Forming, Lyon, France, April 23-25, 2008, A. Vafaeesefat

Optimum Blank Shape Design in Sheet Metal Forming by Boundary Projection Method

International Conference on Simulation Based Engineering and Sciences, Venice, Italy, October 16-17, 2008

Blank Shape Design in Sheet Metal Forming by Boundary Projection Method

Journal Articles:

Proceedings of the Institute of Mechanical Engineering, Part B, 1997, Vol. 211, p11-18, *J.R.R. Mayer, *Y.A. Mir, *F. Trochu, **A. Vafaeesefat and *M. Balazinski *Mechanical Engineering Department, Ecole Polytechnique, Montreal, Quebec, Canada ** Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran

Touch Probe Radius Compensation for Coordinate Measurement using Kriging Interpolation

International Journal of Production Research, 2000, Vol. 38, p2215-2231, *A. Vafaeesefat and **Hoda A. Elmaraghy

*Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran **Intelligent Manufacturing Systems Center, University of Windsor, Ontario, Canada Automated Accessibility Analysis and Measurement Clustering for CMMs

Proceedings of the Institute of Mechanical Engineering, Part B, 2000, Vol. 215, 671-681, *A. Vafaaesefat and **Hoda A. Elmaraghy

*Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran **Intelligent Manufacturing Systems Center, University of Windsor, Ontario, Canada Optimal Workpiece Orientations for Machining of Sculptured Surfaces

Proceedings of the Institute of Mechanical Engineering, Part B, 2001, Vol. 215, p745-753, *A. Vafaaesefat and **Hoda A. Elmaraghy

*Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran **Intelligent Manufacturing Systems Center, University of Windsor, Ontario, Canada Rough Pocketing of Multi-Sculptured Surface Cavities

International Journal of Machine Tools and Manufacture, 2007, Vol. 47, p1625-1635, Y. Hosseinkhani, J. Akbari and A. Vafaeesefat Penetration-Elimination Method for Five-Axis CNC Machining of Sculptured Surfaces

International Journal of Material Forming, 2008, Vol. 1, Supplement 1, p189-192, A. Vafaeesefat

Optimum Blank Shape Design in Sheet Metal Forming by Boundary Projection Method

World Applied Sciences Journal, 2009, Vol. 6, p64-69, R. Jalili Saffar, M.R. Razfar, A.H. salami and M.M. Khani

Optimization of Machining Parameters to Minimize Tool Deflection in the End Milling Operation using Genetic Algorithm

Casting/Prototype Studies

Conference Papers:

Sixth European Conference on Rapid Prototyping and Manufacturing, Nottingham, UK, 1997, *S. Rahmati and **P. Dickens *Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran **Rapid Manufacturing Research Group, Loughborough University, UK Rapid Tooling Anaylsis of Stereolithography Injection Moulding Tooling Stereolithography Injection Moulding Tooling

Eighth Annual Solid Freeform Fabrication, Texas, 1997, *S. Rahmati and **P. Dickens *Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran **Rapid Manufacturing Research Group, Loughborough University, UK Stereolithography Injection Moulding Tool Failure Anaylsis

Seventh European Conference on Rapid Prototyping and Manufacturing, Aachen, Germany, 1998, *S. Rahmati, **P. Dickens and **C. Wykes Tehran International Congress on Manufacturing Engineering (TICME2005), *S. Rahmati and **P. Dickens *Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran **Rapid Manufacturing Research Group, Loughborough University, UK Pressure Effects in Stereolithography Injection Moulding Tools

2nd International Conference on Advanced Research in Virtual and Rapid Prototyping, Leiria, Portugal, 2005, *S. Rahmati and **P. Dickens
*Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran
**Rapid Manufacturing Research Group, Loughborough University, UK Stereolithography Rapid Tooling for Injection Moulding

Journal Articles:

Rapid Prototyping Journal, 1997, Vol. 3, p53-60, *S. Rahmati and **P. Dickens *Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran **Rapid Manufacturing Research Group, Loughborough University, UK Stereolithography for Injection Mould Tooling International Journal of Machine Tools and Manufacture, 2007, Vol. 47, p740-747, *S. Rahmati and **P. Dickens *Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran **Rapid Manufacturing Research Group, Loughborough University, UK Rapid Tooling Analysis of Stereolithography Injection Mould Tooling

Rapid Prototyping Journal, 2007, Vol. 13, p115-122, S. Rahmati, J. Akbari and E. Barati Dimensional Accuracy Analysis of Wax Patterns Created by RTV Silicone Rubber Molding using the Taguchi Approach

Journal of the Faculty of Engineering (University of Tehran), 2007, Vol. 41, p525-533, R.A. Madhavinezhad and Nezad Gholami Mechanical and Thermal Stress Analysis in Spindle of Turning Machines

Rapid Prototyping Journal, 2009, Vol. 15, 187-191, S. Rahmati Piezo-Electric Head Application in a New 3D Printing Design

Rapid Prototyping Journal, 2009, Vol. 15, p255-263, Y. Norouzi, S. Rahmati and Y. Hojjat A Novel Lattice Structure for SL Investment Casting Patterns

Tsinghua Science and Technology, 2009, Vol. 14, Supplement 1, p24-28, S. Rahmati, F. Shirazi and H. Baghayeri Perusing Piezoelectric Head Performance in a New 3-D Printing Design

Tsinghua Science and Technology, 2009, Vol. 14, Supplement 1, p108-115, S. Rahmati, M.R. Rezaei and J. Akbari Design and Manufacture of a Wax Injection Tool for Investment Casting using Rapid Tooling

Gaseous Diffusion Related Studies

Journal Articles:

International Journal for Numerical Methods in Fluids, 2009, Inpress, M. Babaelahi, D.D. Ganji and A.A. Joneidi

Analysis of Velocity Equation of Steady Flows of a Viscous Incompressisble Fluid in Channel with Porous Walls

Uranium Hexafluoride Synthesis Related Studies

Conference Papers:

International Conference on Multiphase Flow, Leipzig, Germany, July 9-13, 2007, M. Farzaneh, M. Shams and R. Ebrahimi A Sensitivty Analysis of Flow Characteristics in Fluidized Beds to Drag Models

Journal Articles:

Iranian Journal of Nuclear Science and Technology, 2008, Vol. 43, p31-40, A. Niksir and A. Rahimi

Mathematical Modeling and Simulation of the Fluorination Reaction of Uranium Dioxide and Evaluation of Exisitng Gas-Solid Reaction Models

Annals of Nuclear Energy, 2008, Vol. 35, p704-7, M.H. Khani, H. Pahlavanzadeh and M. Ghannadi

Kinetics Study of the Fluorination of Uranium Tetrafluoride in a Fluidized Bed Reactor

Annals of Nuclear Energy, 2008, Vol. 35, p2321-26, M.H. Khani, H. Pahlavanzadeh an M. Ghannadi Two-Phase Modeling of a Gas Phase Fluidized bed Reactor for the Fluorination of Uranium Tetrafluoride

Journal of Nuclear Science and Technology, 2009, Vol. 46, p50-58, Z. Vatani, J. Safdari, H. Abolghasemi and R. Orouj

Study of UF_6 Gas Flow by using Orifice and Needle Valve under Medium Vaccum Conditon and Investigation of Effective Parameters on it

International Communications in Heat and Mass Transfer, 2009, Vol. 36, p757-762, A.A. Joneidi, D.D. Ganji and M. Babaelahi Differntial Transformation Method to Determine Fin Efficiency of Convective Straight Fins with Temperature Dependent Thermal Conductivity

International Communications in Heat and Mass Transfer, 2009, InPress, A.A. Joneidi, D.D. Ganji and M. Babaelahi Micropolar Flow in a Porous Channel with High Mass Transfer

Chemical Product and Process Modeling, 2009, Vol. 4, Article 19, S. H. Hosseini, M. Zivdar, R. Rahimi and A. Samimi CFD Simulation of Solid Hold-Up in Gas-Solid Fluidized Bed at High Gas Velocities

Separation Nozzle Aerodynamic Method

Thesis:

S.M. Barough, MSc. Islamic Azad University Designing of Isotope Separation Unit by Nozzle Process

Conference Papers:

Untitled Conference, Iran, February 2005, M.S. Barough and M. Rahgoshay Design of a Unit Nozzle Separation

Sixth International Conference of the Balkan Physical Union (BPU6), Turkey, August 22-26, 2006, S.M. Barough, M. Rahgoshay, A. Abaspour, A. Hogabri and M. Ghorannevis Simulating and Examination of the Separation Stage performance with Rotating Wall

First International Conference on Physics and Technology of Reactors and Applications, Morocco, March 14 – 16, 2007, M.S. Barough, S.A. Milani and M. Ghorannevis Simulation of the Separation Stage Nozzle

International Nuclear Conference, Kuala Lumpur, Malaysia, June 29 – July 1, 2009, M.S. Barough, S.S. Kashani and M. Rahgoshay Evaluation and Simulation of the Entrnace Gas Variations on Separation Factor in Nozzle Aerodynamic Method

International Nuclear Conference, Kuala Lumpur, Malaysia, June 29 – July 1, 2009, M.S. Barough, S.S. Kashani and M. Rahgoshay The Simulation and Evaluation of the Effects of Light Gases Helium and Hydrogen in Isotopic Separation with Nozzle Aerodynamic Method

Laser Related Research

Documents/Reports:

AEOI Internal Report	A Proposal to Establish a Center for Research and Development in Laser Technology in Iran
R.K. Mosavi	1975
AEOI Internal Report R.K. Mosavi	Laser Technology Program 1975

AEOI Internal Report R.K. Mosavi	Results of Studies about the Importance of Different Areas of the Laser Project in Iran 1975
AEOI-18	Preliminary Design of Experiment High Power Density Laser Beam Interaction with Plasmas and Development of a Cold Cathode Electron Beam Laser Amplifier
R.K. Mosavi	1976
AEOI-45	Preliminary Design of a 300 KeV Electron Gun for a High Power CO ₂ Laser Amplifier
J. Katzenstein	1976
AEOI-64	Design, Construction and Performance of a 6 Watt CO ₂ Laser
M. Hamadani	1976

Special Reports:

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1992-3 Application of Optical Energy of High-Power Lasers

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1992-3 Conversion of Laser Energy into Dye Laser Energy

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1993-4 Laser Power Measurments by Using a Photochemical Method

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1993-4 Study of Dye Laser Oscillation and Amplification

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1994-5 Study of Dye Laser Oscillation and Amplification

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1997-8 Design and Construction of Power Supply for Semiconductor Lasers H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1998-9 Design and Construction of Power Supply for Semiconductor Lasers

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 2000-1 Simulation of Two- and Three-Electrode Spark Gaps

P. Parvin, G.R. Davoud-Abadi, H. Kariminezhad and Z. Zamanipoor, ESA-SP-561, European Space Agency, June 2004 The Remote Sensing of Radioative Plumes with a Hybrid System Including Gamma Spectroscopy and DIAL Lidar

Thesis:

M. Noorani, Thesis (M.S.), 2007, Islamic Azad University Design and Fabrication of TEA Laser

P. Noori, Thesis (M.S.), 2007, Islamic Azad University Modifying N_2 Laser Beam by Changing Pre-Ionization

Conference Papers:

Iran Conference on the Transfer of Nuclear Technology, Persepolis/Shiraz, April 10, 1977, S.M. Hamadani Development of Laser Devices of Interest for Nuclear Applications in Iran: A Case Study of Parallel Technology Transfer

Iran Conference on the Transfer of Nuclear Technology, Persepolis/Shiraz, April 10, 1977, R.K. Mosavi Laser Technology Transfer

Topical Meeting on Inertial Confinement Fusion, San Diego, CA, 1978, S.M. Hamadani Nanosecond CO₂ Single-Beam Target Irradiation

Proceedings of the International Conference on Electrical Machines, Brussels, Belgium, 1978, M.Z. Iqbal A Thyristor Booster Supply

CLEO 81. Conference on Lasers and Electro-Optics, Washington, D.C., 1981, M.R. Taghizadeh 12.8 mu m NH₃ Laser Emission with Up to 30% Energy Conversion and 40-60% Power Conversion Efficiencies Proceedings of MELECON '87: Mediterranean Electrotechnical Conference and 34th Congress on Electronics Joint Conference, Rome, Italy, 1987, M.H. Rahnavard Loss Calculation, in Symmetrically Infinite Strip Unstable Optical Resonator Using Different Techniques

Proceedings of the National Conference on Lasers and Their Applications, Atomic Energy Organziation, September 12-6, 1987, H. Golnabi Design and Construction of Dye Laser Components

Optoelectronic Devices and Applications, San Diego, USA, 1990, M.H. Rahnavard Effect of Grating Shapes on Bandwidth and Power of Distributed Feedback Lasers

Optoelectronic Devices and Applications, San Diego, USA, 1990, M.H. Rahnavard Phase and Amplitude Reconstruction of High Power DFB Semiconductor Diode from the Study of its Output Power

Fiber Optic and Laser Sensors VIII, San Jose, USA, 1990, M.H. Rahnavard Tunability of Cascaded Gratings Which is used in Distributed Feedback (DFB) Laser

Devices for Optical Processing, San Diego, USA, 1991, M.H. Rahnavard Tapered DBR for Improving Characteristics of DFB and DBR Lasers

Annual Physics Conference, Isfahan University, 1991, P. Parvin and R. Sadighi The Simulation of Electrical Discharge and the Study of Temporal Response of Current and Voltage in Blumelein Circuit of High Power Short Pulse Lasers

Ninth International Symposium on Gas Flow and Chemical Lasers, Crete, Greece, 1992, A.R. Bahram-Pour A Double Grid Corona Discharge TEA CO₂ Laser

Ninth International Symposium on Gas Flow and Chemical Lasers, Crete, Greece, 1992, A. Shojai Gain and Output Power Calculation in Plasma Injection Laser

Ninth International Symposium on Gas Flow and Chemical Lasers, Crete, Greece, 1992, M.H. Rahnavard Optimization of First Order Trapezoidal Gratings used in DFB and DBR Lasers

Ninth International Symposium on Gas Flow and Chemical Lasers, Crete, Greece, 1992, M. Shojai, M.A. Bolorizadeh, A.R. Bahram-Pour, M. Rahnama, and E. Medizadeh Effect of Nozzle Shape on Small Signal Gain in Gasdynamic Laser

The Second International Laser and Its Applications Conference, AEOI, Tehran, Iran, 1993, P. Parvin, R. Sadighi and A. Zareh The Computer Simulation of N₂ Laser in Order to Optimize Oupput Power at Various C-B Vibrational Transitions

The Second International Laser and Its Applications Conference, AEOI, Tehran, Iran, 1993, P. Parvin, A. Saliminia and A. Zareh Fabrication and Optimization of a Series Oscillator-Amplifier of N²⁺ Laser

Annual Iranian Conference of Physics, Sanandaj University, Iran, 1994, M.S. Zafarani, P. Parvin and R. Sadighi Fabrication and Optimization of Oscillator-Amplifier of Atomic Fluorine Laser

Annual Iranian Physics Conference, Urmieh University, Iran, 1995, P. Parvin and R. Sadighi Design and Fabrication of of XeF Excimer Oscillator Amplifier in Order to Determine Small Signal Gain and Saturation Intensity of the Amplifying Medium

Iranian Conference on Physics, 1996, H. Golnabi Study of Electrical Discharges in Two- and Three-Electrode Designs

Annual Iranian Physics Conference, Gilan University, 1997, P. Parvin, K. Mirabas Zadeh and B. Jaleh Solving the Boltzman Transport Equation in Order to Determine the Electron Energy Distribution of Excimer Laser Plasma

National Seminar and Workshop on Lasers and Their Applications, Tehran, April 30 – May 1, 1997, R. Sadighi-Bonabi Emission Characteristics and Optimization of Eximer Laser

1st National Conference on Optimization and Its Applications, Mashhad, Iran, 1997, A. Bahmrampour Effect of Shock Waves on Optimal Gain in Gasdynamic Lasers

The Preliminary Conference on Military Applications of Lasers, Emam Hussein University, Tehran, Iran, 1998, P. Parvin The Antisensor Lasers

Proceedings of the 1998 International Conference on Pulsed Power, Praha, Czech Republic, B. Marghechi, S. Mirzanejhad, and A. Tavakoli Magnetoresonance in Free Electron Lasers with Electromagnetic and Magnetostatic Wiggler

Annual Physics of Iran, Babolsar University, Iran, 1999, P. Parvin, R. Sadighi and K. Azizi

Design, Fabrication and Operation of a KrF Excimer Laser

Annual Physics of Iran, Babolsar University, Iran, 1999, P. Parvin, R. Sadighi and Z. Zamanipour Design and Fabrication of a KrF Laser Pumped Dye Laser

Proceedings of the International Topical Conference on Plasma Physics, Treieste, Italy, 1999, B. Farokhi, B. Maraghechi and J.E. Willet Space-Charge and Cyclotron Waves in a Raman Free-Electron Laser

The Conference on Laser Application in Armed Forces, The Optics and Laser Research Center, Malek Ashtar University, Isfahan, Iran, 2001, P. Parvin, A. Eslami and N. Amirirad

The Latest Progress in Antisensor Lasers and Their Defense Applications

Annual Physics Conference of Iran, Sabzevar University, Iran, 2001, A. Koohain, P. Parvin and M.F. Kimmitt The Photon Drag Detector for Optical Pumping of FIR Lasers

Annual Physics Conference, Zanjan University, Zanjan, Iran, 2002, P. Parvin, A. Eslami and Z. Zamanipour

Design and Fabrication of KrF Laser Pumped Dye Laser with Narrow Spectral Width in Order to Measure the Small Signal Gain and Saturation Intensity of the Gain Medium

The Nineth Photonics Conference of Iran, Iran Communications Research Center, Tehran, Iran, 2002, P. Parvin, B. Sajad and Z. Zamanipour The Behavior of Gain Parameters of an Oscillator-Amplifier of Copper Vapor Laser

International Conference on Lasers, Applications, and Technologies, Moscow, Russia, 2002, H. Ghomi Effect of Axial External Magnetic Field on the Output Power of a CuBr Laser

Eleventh International Laser Physics Workshop, Bratislava, Slovakia, 2002, S. Jelvani Dual Wavelength Dye Laser Pumped by a Copper Vapor Laser

Proceedings of CAOL'2003. 1st International Conference on Advanced Optoelectronics and Lasers, Alushta, Crimea, Ukraine, 2003, S. Saghafi Characterising Output Beams of Unstable Laser Resonators Employing Modal Analysis

Workshop on Plasma Physics, Trieste, Italy, 2003, *M.H. Mahdieh and **T.N. Hall * Department of Physics, Iran University of Science and Technology, Tehran, Iran ** Department of Physics, University of Essex, Essex, UK Characterization of Dense Plasmas Produced by Sub-Nanosecond Laser Pulses

Annual Physics Conference of Iran, Tabriz, Iran, August 25-8, 2003, S. Behrouzinia, P. Parvin, R. Sadighi, and H.L. Ghasem

Measurement of the Electrical and Photonic Parameters of a Copper Vapor Laser in an Oscillator-Amplifier Array

Annual Physics Conference of Iran, Tabriz, Iran, August 25-8, 2003, A. Majdabadi and H. Dashtizadeh The First Diode-Pumped Solid-State-Lasers with End Pumping in Iran

Annual Physics Conference of Iran, Tabriz, Iran, August 25-8, 2003, S. Jelvani, B. Khodadosi, and R. Sadighi Dual Wavelength Dye Laser and Gain Combination Effect

International Conference of Physics, Amirkabir University of Technology, Tehran, January 6-9, 2004, Ghoreyshi, K. Rahimian, and A. Hariri Double-Pass Amplification in a Longitudinally Excited Low Pressure N₂-Laser

International Conference of Physics, Amirkabir University of Technology, Tehran, January 6-9, 2004, P. Parvin, M.A. Basam, Z. Zamanipour, N. Boyok and H. Karimejad SF_6 Laser Remote Sensing by CO_2 Laser-DIAL Laser

7th International Conference on Optoelectronics, Fiber Optics and Photonics, Kochin, India, 2004, M.H. Mahdieh Two-Dimensional Simulation of Thermal Blooming Effects in Ring Laser Pattern

15th International Sympsoium on Gas Flow and Chemical Lasers, Prague, Czech Republic, 2004, M.H. Mahdieh Induced Thermal Distortion Effects in Active Unstable Optical Resonators with Non-Uniform Gain

The Second International Conference in Nuclear Science and Technology, Shiraz University, Iran, April 2004, P. Parvin, G.R. Davoud-Abadi, Z. Zamanipour and H. Kariminezadeh

A Hybrid Gamma Spectrometer-DIAL Lidar System for the Remote Sensing of Radioactive Plumes

Proceedings of the 2004 FEL Conference, August 29 – September 3, 2004, P. Parvin, G.R. Davoud-Abadi, A. Basam, B. Jaleh, Z. Zaminpour, B. Sajad, and F. Ebadpour A Mode Locked UV-FEL

Proceedings of the 2004 FEL Conference, August 29 – September 3, 2004, B. Marghechi, H. Aghahosseini, and A.A. Kordbacheh

Wiggler Effect on the Growth Rate of a Raman Free-Electron Laser with Axial Magnetic Field or Ion-Channel Guiding

3rd International Conference on Superstrong Fields in Plasmas, Varenna, Italy, 2005, M.H. Mahdieh

Optical Reflectivity of Multilayer Dense Plasma Produced by Ultra-Short Pulsed Power Lasers

Workshop on Plasma Physics, Trieste, Italy, 2005, M.H. Mahdieh Evaluation of Ion Plasmas Produced by Pulsed Lasers in Electrostatic Fields

Iranian Nuclear Conference, Bushehr, Iran, February 23-4, 2005, P. Parvin, B. Jahl, and Z. Zamanipour Remote Plume Tracing of Trans-Uranium Elements by a Hybrid Photoswitch-DIAL Lidar System Coupled with a Tunable UV Laser

XV International Symposium on Gas Flow, Chemical Lasers, and High-Power Lasers, March 23, 2005, M.H. Mahdieh, M. Shirmahi and A. Sharafi Induced Thermal Distortion Effects in Active Unstable Optical Resonators with Nonuniform Gain

CLEO Europe/EQEC, Munich, Germany, June 12-17, 2005, P. Parvin, G.R. Davoudabadi and Z. Zamanipour Remote Element Tracing of Trans-Uranium Plumes Using an Interactive UV Laser DIAL Coupled with a Photoswitch Detector

XXVIIth ICPIG, Eindhoven, the Netherlands, July 18-25, 2005, M. Kavian, M.J. Torkamany, M. Zand, and M. Ghorannevis Sealed Off Operation of a High Repetition Rate TEA CO₂ Laser

Annual Physics Conference of Iran, Lorestan, Iran, August 25–September 1, 2005, S. Behrouzinia, R. Sadighi, P. Parvin, and S. Abolhosseini Experimental Investigation of the Independence of the Total Output Power of Copper Vapor Laser on the Stimulated Emission Cross Section

Asia-Pacific Microwave Conference, December 4-7, 2005, M. Esmaeilzadeh Self-Fields Effects on Gain in an Ion-Channel Free-Electron Laser

7th Australasian Conference on Optics, lasers and Spectroscopy, December 5-9, 2005, Rotorua, New Zealand, M. Zand Study of the Effect of Copper Electrodes on Efficiency in a Large Bore Copper vapor Laser

7th Australasian Conference on Optics, lasers and Spectroscopy, December 5-9, 2005, Rotorua, New Zealand, M. zand, D. salehinia, K. Khorasani and B. Kia Flip-Flop Thyratrons Structures used in Metal Vapor Laser Power Supplies

Workshop on Laser Applications in Europe, December 9, 2005, M.H. Mahdieh, M. Shirmahi and M. Alavi-Nejad Beam Quality in Unstable Optical Resonators and the Effects of Misalignment International Sympsoium on Gas Flow, Chemical Lasers and High-Power Lasers, Gmunden, Austria, September 4, 2006, M.H. Mahdieh, M. Shirmahi and M. Lafooti Investigation of Variable Reflecting Mirrors Effects in Beam Quality of Unstable Optical Resonators

XVI International Symposium on Gas Flow, Chemical Lasers, and High Power Lasers, April 26, 2007, M.H. Mahdieh, M. Shirmahi and M. Lafooti Investigation of Variable Relfecting Mirrors Effects in Beam Quality of Unstable Optical Resonators

International Conference on Ultra Intense Laser Interaction Sciences, Bordeaux, France, 2007, M. Shirmahli, R. Fazeli, M.H. Mahdieh and G. Tallents X-Ray Yield Enhancement from Metal Nano-Targets Irradiated by Long Pulsed Laser

International Conference on Ultra Intense Laser Interaction Sciences, Bordeaux, France, 2007, M. Shirmahli, M. Nikbakht, M.H. Mahdieh and G. Tallents Numerical Evaluation of Ka Emission from Two Layer Targets Irradiated by Short Pulse Lasers

Journal Articles:

Physica Scripta, 1974, Vol. 10, p145-8, A. Anvari The Characteristics of a 40 kV Multistage Spark Gap

IEEE Transaction on Industry Applications, 1975, Vol. IA-11, p158-64, K.Y. Nikravesh Lyapunov Stability Analysis of Thyristor Invertor System

Applied Optics, 1976, Vol. 15, p793-5, Y. Kohanzadeh Hot Splices of Optical Waveguide Filters Journal of Applied Physics, 1976, Vol. 47, p177-9, Y. Kohanzadeh Injection Laser Coupling to Optical Waveguides with Integral Lenses

Applied Optics, 1978, Vol. 17, p3500-2, H. Madjidi-Zolbanine Spatial Coherence of a Ruby Laser Beam by Interferometry

Optics Commuications, 1980, Vol. 34, p445-6, M.R. Taghizadeh A Simple and Efficient Optically Pumped NH₃ Laser System

Applied Physics Letters, 1981, Vol. 39, p32-4, M.R. Taghizadeh 12.8-um NH₃ Laser Emission With 40-60% Power Conversion and Up to 28% Energy Conversion Efficiency

Applied Physics, 1982, Vol. B28, p237-8, M.R. Taghizadeh Efficient Multi-kW Mid Infra-Red Difference Frequency Generated in CdGeAs₂ IEEE Journal of Quantum Electronics, 1982, Vol. QE-18, 1239-42, M.R. Taghizadeh Efficient Multikilowatt Mid Infrared Difference Frequency Generated in CdGeAs₂

Scientific Bulletin of the Atomic Energy Organization of Iran, 1983, Vol. 3, p62-79, A. Hariri, M. Tarkashvand, F. Ardvani and A.A. Yarghchi Experimental Investigation of the TE N₂ Laser

Scientific Bulletin of the Atomic Energy Organization of Iran, 1983, Vol. 4, p36-64, S.M. Hamedani, A.A. Yarghchi, F. Madah, F. Soltanmoradi and M.H.B. Marvasti Comparison of the Characteristics of a CO₂ Gas Laser with the Parameters Obtained by the Five-Temperature Theoretical Model

Scientific Bulletin of the Atomic Energy Organization of Iran, 1986, Vol. 5, p1-10, A. Hariri, M. Tarkashwand, A. Karimi and F. Ardvani Nitrogen Laser-Pumped Dye Lasers

Scientific Bulletin of the Atomic Energy Organization of Iran, 1986, Vol. 5, p19-26, A. Behgat, F. Soltanmoradi, S.A. Naimi and K. Atighechi Design and Construction of High Power CW CO₂ Lasers

Scientific Bulletin of the Atomic Energy Organization of Iran, 1988, F. Soltanmoradi and S.A. Naimi Design and Construction of Mini TEA CO₂ Laser with Spark Array Preionization

Microwave and Optical Technology Letters, 1989, Vol. 2, p175-9, M.H. Rahnavard Comparative Analysis of Infinite Strip Unstable Optical Resonators

Microwave and Optical Technology Letters, 1989, Vol. 2, p321-5, M.H. Rahnavard Magnitude and Phase of the Electric Field of Infinite-Strip, Unstable Optical Resonators Using Different Techniques

Microwave and Optical Technology Letters, 1990, Vol. 3, p372-5, O.R. Moheimany Tunability of Cascaded Grating Used in Distributed Feedback Laser

Journal of Electromagnetic Waves and Applications, 1990, Vol. 4, p573-94, M.H. Rahnavard

Comparative Analyses of Spherically Symmetric Unstable Optical Resonators with Circular Aperatures

Microwave and Optical Technology Letters, 1990, Vol. 3, p643-7, A. Bakhtazad Tapered Corrugation for Improving Characterization of DFB and DBR Lasers

Review of Scientific Instruments, 1990, Vol. 61, p1408-12, A. Hariri Corona-Preionized Nitrogen Laser with Variable Pulse Width Review of Scientific Instruments, 1990, Vol. 61, p2247-8, A. Hariri Generation of Single Longitudinal Mode in a Pulsed Passively Q-Switched Nd:YAG Laser

Electric Power Systems Research, 1991, Vol. 22, p195-201, S.H. Hosseini New Definition of Reactive Power and Implementation of Wide Bandwidth Parameters

Review of Scientific Instruments, 1992, Vol. 63, p5804-5, H. Golnabi Reliable Spark Gap Switch for Laser Triggering

IEEE Journal of Quantum Electronics, 1993, Vol. 29, p1192-8, H. Golnabi Nitrogen Laser Charging Process Investigation

Optics Communications, 1994, Vol. 108, p84-90, A.H. Farahbod Application of Generalized Self-Filtering Unstable Resonators to a N₂-Laser Pumped Dye Laser

Review of Scientific Instruments, 1994, Vol. 65, p2798-801, H. Golnabi Design and Construction of a High-Precision Computer-Controlled Monochromator

Review of Scientific Instruments, 1994, Vol. 65, p3030-1, H. Golnabi Triggerable Spark Gap Switches for Pulsed Gas Lasers

Optics and Laser Technology, 1996, Vol. 28, p203-05, M.S. Zaeferani, P. Parvin, and R. Sadighi Pressure Dependence of the Spectral Lines of a High Power, High Pressure Atomic Fluorine Laser Pumped by a Charge Transfer from He⁺2

Optics and Laser Technology, 1996, Vol. 28, p207-11, A. Saliminia The Small Signal Gain and the Saturation Intensity Measurement of the Nitrogen Ion Laser

International Journal of Engineering, 1996, Vol. 9, p143-50, H. Golnabi The Study of Breakdown Voltages for Triggered Spark Gap Switches

Optics and Laser Technology, 1997, Vol. 29, p135-43, F. Shojaei On the Modelling of the Power Extraction Problem from a Gas-Dynamic CO₂ Laser Considering the Variations of Intensity

Canadian Journal of Physics, 1998, Vol. 76, p495-9, F. Hajiesmaeilbaigi Ultrashort-Pulse Generation by Self Mode Locked Ti:Sapphire Lasers Without Apertures and With Low Pumping Power

Scientia Iranica, 2000, Vol. 7, p19-24, A. Bahrampour, R.M. Farrahi and M. Radjabalipour Optimal Gain in CO₂-N₂-H₂0 Gasdynamic Lasers with Shock Free Active Medium International of Engineering, 2000, Vol. 13, p1-15, H. Golnabi Power Supply and Current Modulation Circuits for Semiconductor Lasers

Iranian Journal of Physics Research, 2000, Vol. 2, p38-, J. Sabbaghzadeh, S. Dadras and Z. Haghi Design and Construct of a Tunable Semiconductor Laser

Review of Scientific Instruments, 2000, Vol. 71, p413-9, H. Golnabi Comparison between the Discharge Development in Two- and Three-Electrode Spark Gap Switches

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 21, A. Hariri Performance of Nd:YAG Lasers in Coupled Generalized Self-Filtering and Positive-Brach Unstable Resonators

Physical Review E, 2000, Vol. 61, p7046-51, *B. Maraghechi, **B. Farrokhi, ***J.E. Willet, and ****U.-H. Hwang *Institute for Studies in Theoretical Physics and Mathematics, Tehran **Department of Physics, Amirkabir University, Tehran ***Department of Physics and Astronomy, University of Missouri-Columbia ****Physics Department, Korea University of Technology and Education, Chunan, Korea Equilibrium Orbit Analysis in a Free-Electron Laser with a Coxial Wiggler

Journal of Scientific and Industrial Research in Iran, 2001, Vol. 12, p77-87, A. Bahrampour, R.M. Farrahi and M. Radjabalipour Optimal Nozzle Shapes of CO₂-N₂-H₂0 Gasdynamic Lasers

Measurement Science and Technology, 2001, Vol. 12, p478-81, A. Koohian, P. Parvin and M.F. Kimmitt Photon Drag Detectors for CW Optically Pumped FIR Lasers

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p1-8, S. Ghoreyshi, A.H. Farahbod and A. Hariri Experimental Investigation of Generalized Self-Filtering Unstable Resonator in a Longitudinally Excited Molecur Nitrogen Laser

Scientia Iranica, 2002, Vol. 9, p116-24, S. Khorsani and H. Golnabi FEM Simulation of Two and Three-Electrode Spark Gap Discharges

International Journal of Numerical Methods in Fluids, 2002, Vol. 38, p1027-44, A.R. Bahrampour A Simplified Quasi Two Dimensional Model for Gain Optimization in Carbon Dioxid

A Simplified Quasi-Two-Dimensional Model for Gain Optimization in Carbon Dioxide Gasdynamic Lasers (GDL)

Review of Scientific Instruments, 2002, Vol. 73, p225-6, A. Amjadi Spatial Mode Control of a CO₂ Laser by Use of Controllable Back Mirror Focal Length

Review of Scientific Instruments, 2002, Vol. 73, p4014-21, H. Golnabi The Effect of Electrical Parameters on the Simulated Spark Gap Discharge Current

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p497-506, H. Golnabi

Temporal and Spatial Behaviors of Discharge in Nitrogen Gas between Two-Parallel-Plane Electrodes

IEEE Transactions on Plasma Science, 2002, Vol. 30, p301-9, H. Golnabi Dischrage Current Development in Two-Electrode Spark Gap Switches

International Journal for Numerical Methods in Fluids, 2002, Vol. 38, p1027-44, A.R. Bahrampour, R.M. Farrahi, and M. Radjabalipour A Simplified Quasi-Two-Dimensional Model for Gain Optimization in Carbon Dioxide Gasdynamic Lasers (GDL)

Journal of Science, Islamic Azad University, 2002, No. 45, p3653-62, H. Golnabi, A. Koohian, F. Esmailbagy, E. Drabi and L. Rozbeh Optimization of Optical Pumping of Nd:YAG Crystal using Laser Diodes

Journal of Physics D, 2003, Vol. 36, p9-18, A. Barampour Power Extraction Modelling in the Externally Pumped 16um Gasdynamic Lasers: Modelling and Optimization

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 26, p1-9, K. Rahimian, H. Farahbod and A. Hariri Nd:YAG (2w) Pumped Dye Laser using Self-Filtering Unstable Resonator (SFUR)

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 26, p10-16, D. Salehinia and K. Khorasani Pulsed Power Supplies in CVL Lasers

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 29, p17-24, A. Hariri, M. Torkashvand and A.H. Farahbod Experimental Study of an Oscillator-Amplifier Transversely Excited Molecular Nitrogen Laser System

Hadronic Journal, 2003, Vol. 26, p101-18, A. Bahrampour A Semiclassical Model for Theoretical Study of the Injection Locking Transversely Excited Atmospheric Pressure TEA CO₂ Laser Applied Optics, 2003, Vol. 42, p1013-18, S. Behrouzinia Pressure Dependence of the Small-Signal Gain and Saturation Intensity of a Copper Vapor Laser

Applied Physics B, 2003, Vol. B76, p749-53, A. Bahrampour A Quasioine-Dimensional Model for Cascade Gasdynamic Lasers

Scientia Iranica, 2003, Vol. 10, p449-53, A.R. Bahrampour and M.B. Marashi A Compact Simple Structure TEA CO₂ Laser with Dielectric Corona Preionization

Optics and Laser Technology, 2003, Vol. 35, p415-23, H. Golnabi Thermal Considerations of the Design and Operation of Lens Ducts

Laser Physics, 2003, Vol. 13, p1275-8, S. Jelvani, B. Khodadoost, E. Mohajerani and R. Sadighi Dual Wavelength Dye Laser Pumped by a Copper Vapor Laser

Journal of Physics D, 2003, Vol. 36, p2487-97, A. Bahrampour Theoretical Analysis of Electrical Transient Behavior in TEA CO₂ Laser with Dielectric Corona Pre-Ionization

Journal of Plasma Physics, 2004, Vol. 70, p9-24, *M. Esmaeilzadeh, *H. Mehdian, and **J.E. Willett Guiding, and Parallel/Reversed Axial Magnetic Field *Department of Physics, Teacher Training University, Tehran, Iran **Department of Physics and Astronomy, University of Missouri-Columbia, Columbia, Missouri Electron Trajectories in a Free-Electron Laser with Helical Wiggler, Ion-Channel

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p13-7, M. Zand, D. Salehinia, K. Khorasani and B. Kia Paralled Thyratrons Structure used in Metal Vapor Laser Power Supplies

Iranian Journal of Physics Research, 2004, Vol. 4, p209-216, M.H. zandi and A. Bahrampour A Theoretical Study of the Injection Locking TEA-CO₂ Laser

Japanese Journal of Applied Physics, Part 1, 2004, Vol. 43, p824-6, H. Ghomi Effect of an External Magnetic Field on the Output Power of a CuBr-Ne Laser

Physics of Plasma, 2004, Vol. 11, p3904-10, F. Sohbatzadeh The Influence of an External Magnetic Field on a Radio Frequency Excited CO₂ Laser

Optics Communications, 2004, Vol. 238, p139-49, S. Ghoreyski Gain and Saturation Energy Measurements in Low Pressure Longitudinally Excited N₂ Lasers Laser Physics, 2004, Vol. 14, p1050-3, S. Behrouzinia, R. Sadighi-Bonabi, P. Parvin and M. Zand Temperature Dependence of the Amplifying Parameters of a Copper Vapor Laser

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 32, p9-14, K. Silakhori, F. Soltanmoradi, M. Montazerghaem, and R. Sadr Single Mode Operation of a TEA CO₂ Laser by a CW CO₂ Laser Radiation Injection

Physics Letters A, 2005, Vol. 335, p295-303, S.H. Tavassoli and H. Latifi Magnetic Field Effects on Electrical Parameters of rf Excited CO₂ Lasers

Acta Physica Polonica, 2005, Vol. 107, p895-906, S. Saviz and H. Mehdian The Effect of Ion-Channel Guiding on the Chaotic Electron Trajectories in a Free Electron Laser

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 33, p21-6, R. Mohammadpour, R. Sedighi, F. Soltanmoradi, and M. Zand CuCl-Ne Laser Construction and Optimization of Specific Output Power

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 34, M. Aram Characteristics of a Trigatron with Homo and Hetero-Polar Trigeering Configurations

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 35, p15-23, K. rahimian, S. Ghoreyshi and A. Hariri Study of the Effect of N. Cos Durity and the Length of the Active Medium on Leser

Study of the Effect of N_2 Gas Purity and the Length of the Active Medium on Laser Parameter in an Oscillator-Amplifier N_2 Laser System

Japanese Journal of Applied Physics, 2005, Vol. 44, p7972-75, H. Ghomi and H. Latifi Experimental Investigations of Z Dependence of External Magnetic Field on Magnetic Excitation of CuBr Laser

Iranian Journal of Science and Technology, Transaction A, 2005, Vol. 29, p401-410, M.H. Mahdieh and M. Alavi-Nejad A new Method for Electric Field Optimization in High Power Laser Multilayers

Optical Engineering, 2005, Vol. 44, 096001, M.H. Mahdieh Two-Dimensional Simulation of Ring Pattern Laser Beam Propagating in Atmosphere

Iranian Journal of Science and Technology, Transaction A, 2006, Vol. 29, p401-410, M.H. Mahdieh

A New Method for Electric Field Optimization in High Power Laser Multilayers

Canadian Journal of Physics, 2006, Vol. 84, p223-40, *S. Saghafi, **M.J. Withford, and *Z. Ghoranneviss

* Plasma-Physics Research Center, Islamic-Azad University, Tehran

**Department of Physics, Macquarie University, Sydney, Australia

Characterizing Flat-Top Laser Beams Using Standard Beam Parameters

Canadian Journal of Physics, 2006, Vol. 84, p241-52, *S. Saghafi, **M.J. Withford, and **J.A. Piper

*Plasma-Physics Research Center, Islamic-Azad University, Tehran **Department of Physics, Macquarie University, Sydney, Australia Propagation of Laser Beams Formed by Unstable Resonators with Different Magnifications

Laser Physics Letters, 2006, Vol. 3, p480484, M.J. Torkamany, M. Kavian and M. Zand Experimental Study of Sealed Off Operation of a High Repetition Rate TEA CO₂ Laser

Laser Physics, 2006, Vol. 16, p447-54, K. Rahimian, S. Ghoreyshi and A. Hariri Behavioral Studies of Gain and Saturation Energy Density in a N_2 Laser with Corona Preionization

Plasma Physics and Controlled Fusion, 2006, Vol. 48, p991-1003, H. Mehdian and A. Raghavi Kinetic Description of a Wiggler Pumped Ion-Channel Free Electron Laser

Laser Physics, 2006, Vol. 16, p1616-20, S. Behrouzinia, A.R. Namdar, M. Zand, R. Barry, and A. Hojabri

Effect of a Magnetic Pulse Compression Circuit on the Operation of a Halide Laser

Optics Communications, 2007, Vol. 272, p168-74, S. Ghoreyshi, K. Rahimian, and A. Hariri

Polarization-Dependent Gain and Saturation Energy Density in a TE N₂-Laser Amplifier

Optics and Laser Technology, 2007, Vol. 39, p182-8, S. Jelvani and B. Khodadoost Gain Competition Effect in Dual-Wavelength Dye Lasers

Quantum Electronics, 2007, Vol. 37, p325-30, R. Sadighi-Banabi, F. Soltanmoradi, R. Mohammadpour, M. Tavakoli and M. Zand Study of the Dependence of the Specific Output Power of a Copper Chloride Laser on the Radial Temperature Profile of a Gas Plasma

Optics and Laser Technology, 2007, Vol. 39, p669-80, M.H. Mahdieh, M. Shirmahi and M. Mosavi Numerical Characterizations of Unstable Optical Resonators and Evaluation of the Geometry Effects Optics and Laser Technology, 2007, Vol. 39, p1014-9, A. Bahrampour, R. Fallah, A.A. Ganjovi and A. Bahrampour Theoretical Investigation of Dielectric Corona Pre-Ionization TEA Nitrogen Laser Based on Transmission Line Method

Physics of Plasmas, 2007, Vol. 14, 053104, T. Mohsenpour, B. Maragheci and S. Mirzanejhad Unstable Coupled-Mode Structures in a One-Dimensional Raman Free-Electron Laser

Physics of Plasmas, 2007, Vol. 14, 053114, S. Babaei and B. Maraghechi Kinetic Description of a Plasma-Loaded Free-Electron Laser

Iranian Journal of Physics Research, 2008, Vol. 8, p12-, M. Zand, S.A. Naeimi and M. Montazerolghaem HRR TEA CO₂ Laser with 220W Average Output Power

Iranian Journal of Physics Research, 2008, Vol. 8, p73-6, M. Zand, S.A. Naeimi and M. Montazerolghaem High Repetition Rate, Transverse Atmospheric Pressure CO₂ Laser with 220 Watts Average Output Power

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 42, p46-50, A. Hariri, S. Ghoreysshi and K. Rahimian Study of Geometrical-Dependence of Glow Discharge on Gain Coefficient in a TE-N₂ Laser

Optics Communications, 2008, Vol. 281, p121-8, M.H. Mahdieh and M. Shirmahi Numerical Investigation of Beam Quality in Unstable Optical Resonators and the Effects of Pratical Imperfections

Optics Communications, 2008, Vol. 281, p3395-3402, M.H. Mahdieh Numerical Approach to Laser Beam Propagation through Turbulent Atmosphere and Evaluation of Beam Quality Factor

Optics Communications, 2008, Vol. 281, p3799-3801, K. Khorasani, D. Salehinia, S. Behrouzinia, B. Sajad and M. Parvizian Frequency Dependence of the Output Power of Metal Vapor Lasers

Journal of Russian Laser Research, 2008, Vol. 29, p364-7, D. Salehinia and K. Khorasani Dependence of Small-Signal Gain and Saturation-Energy Intensity on Laser Active Length, Buffer-Gas Type, and Pressure Variations in Gold-Vapor Lasers

Journal of Russian Laser Research, 2008, Vol. 29, 599-603, K. Khorasani, S. Behrouzinia and D. Salehinia Air as a Buffer Gas in Metal-Vapor Lasers Journal of Russian Laser Research, 2008, Vol. 29, p599-603, K. Khorasani, S. Behrouzinia and D. Salehinia Air as a Buffer Gas in Metal-Vapor Lasers

Optics and Laser Technology, 2008, Vol. 40, p1000-1007, V.R. Adineh, C. Aghanajafi, G.H. Dehghan and S. Jelvani Optimization of the Operational Parameters in a Fast Axial Flow CW CO₂ Laser using Artificial Neural Networks and Genetic Algorithms

Applied Optics, 2009, Vol. 48, p3460-3467, M. Zoghi, P. Parvin, S. Behrouzinia, D. Salehinia, K. Khorasani and H. Mehravaran Acoustic Effects of Metal Vapor Lasers

Spectroscopy Related Experiments

Conference Papers:

International Conference on Lasers and Optoelectronics, 1979, H. Tajalli and A. Jafari Two-Photon Transitions in the Optogalvanic Spectrum of Neon

Proceedings of the Physics Conference, Isfahan, Iran, 1991, H. Tajalli Direct Calibration of Laser Wavelength Using the Optogalvanic Effect in Hollow Cathode Lamps

Proceedings of the Physics Conference, August 2-6, 1996, Mashhad, Iran, H. Tajalli Penning Ionization Spectroscopy Using Laser Optogalvanic Effect

National Seminar and Workshop on Lasers and Their Applications in Polymers, April 30-May 1, 1997, F. Soltanmoradi IR Multi Photo Absorption by Molecules

Proceedings of the XVI International Conference on Coherent and Nonlinear Optics, June 29-July 3, 1998, Moscow, Russia, *H. Tajalli, *M. Mahmoudi and **A.C. Izmailov *Center for Applied Physics Research, University of Tabriz, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan On the Possibility of Selective Photoexcitation of Molecules in Dense Gas Media

10th Iranian Conference on Photonics, 2003, M.H. Mahdieh Three Step Photoexciation of Gd by Optogalvanic Technique

Journal Articles:

Spectroscopy Letters, 1979, Vol. 12, p725-32, A. Montaser Inductively Coupled Plasmas as Excitation Sources for Atomic Fluorescence Spectrometry Laser Physics, 1997, Vol. 7, p1194-6, *H. Tajalli, *M. Kalafi and **A.C. Izmailov *Center for Applied Physics Research, University of Tabriz, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan Rise of the Selectivity of the Photoexcitation of Atoms by Means of the Optical Orientation of Their Ground Level

Laser Physics, 1998, Vol. 8, p508-11, *H. Tajalli, *M. Kalafi, *A. Namdar, and **A.C. Izmailov

*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan Dynamics of Absorption of the Monochromatic Radiation in a Thin Gas Cell

Laser Physics, 1998, Vol. 8, p921-4, *M. Mahmoudi, **H. Tajalli, and ***A.C. Izmailov * Institute for Advanced Studies in Basic Sciences, Zanjan, Iran ** Center for Applied Physics Research, University of Tabriz, Tabriz, Iran *** Center for Applied Physics Research, University of Tabriz, Tabriz, Iran Subrecoil Velocity Selection of Molecules on the Basis of Coherent Population Trapping under the Stationary Optical Pumping

Laser Physics, 1999, Vol. 9, p476-80, *A. Namdar, *H. Tajalli, *M. Kalafi, and **A.C. Izmailov *Center for Applied Physics Research, University of Tabriz, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan

Sub-Doppler Absorption Resonances of Three-Level Quantum Systems in Thin Gas Cells

Laser Physics, 1999, Vol. 9, p1223-7, *H. Tajalli, *S. Ahmadi, and **A.C. Izmailov *Center for Applied Physics Research, University of Tabriz, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan About Nonlinear Magnetooptical Phenomena in Thin Gas Cells

Optics and Spectroscopy, 1999, Vol. 86, p749-54, *M. Mahmoudi, *H. Tajalli, and **A.C. Izmailov

*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran

** Institute of Photoelectronics, Baku, Azerbaijan

On the Possibility of Selective Photoprocesses in Molecules on the Basis of Coherent Population Trapping

Optics Communications, 2000, Vol. 176, p137-48, *Azad Ch. Izmailov, **M. Mahmoudi, and ***H. Tajalli

*Institute of Photoelectronics, Baku, Azerbaijan

**Institute for Advanced Studies in Basic Sciences, Zanjan, Iran

***Center for Applied Physics Research, University of Tabriz, Tabriz, Iran

On the Selective Photoexcitation of Molecules within the Homogenous Width of Optical Lines

Journal of Optics B, 2000, Vol. 2, p315-22, *M. Mahmoudi, **H. Tajalli, ***M.S. Zubairy *Department of Electronics, Quaidi-i-Azam University, Islamabad, Pakistan ** Institute for Advanced Studies in Basic Sciences, Zanjan, Iran ***Department of Physics, Tabriz University, Tabriz, Iran Measurement of the Wigner Function of a Cavity Field via Autler-Townes Spectroscopy Laser Physics, 2000, Vol. 10, p403-5, *M. Kalafi, *H. Tajalli, *A. Namdar, and **A.C. Izmailov *Center for Applied Physics Research, University of Tabriz, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan Spectroscopy of the Probe Wave for the Cascade System of Levels in a Thin Gas Cell Laser Physics, 2000, Vol. 10, p1028-32, *H. Tajalli, **M. Mahmoudi, and ***A.C. Izmailov *Center for Applied Physics Research, University of Tabriz, Tabriz, Iran **Institute for Advanced Studies in Basic Science, Zanjan, Iran *** Institute of Photoelectronics, Baku, Azerbaijan On the Possible Control of the Velocity Selection of Molecules Laser Physics, 2001, Vol. 11, p1256-61, H. Tajalli On the Resolution of the Sub-Doppler Laser Spectroscopy in Thin Gas Cells

Laser Physics, 2002, Vol. 12, p558-62, *A. Namdar, *H. Tajalli, and **A.C. Izmailov *Center for Applied Physics Research, University of Tabriz, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan Manifestations of the Sub-Doppler Structure of the Atomic Spectra in Characteristics of the Running Monochromatic Wave at the Optical Nonuniformity of a Gas

Laser Physics, 2002, Vol. 11, p1256-61, *H. Tajalli, *S. Ahmadi, and **A.C. Izmailov *Center for Applied Physics Research, University of Tabriz, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan On the Resolution of the Sub-Doppler Laser Spectroscopy in Thin Gas Cells

Journal of Optics B, 2002, Vol. 4, p208-14, *H. Tajalli, *S. Ahmadi, and **A.C. Izmailov

*Center for Applied Physics and Astronomical Research, Tabriz University, Tabriz, Iran ** Institute of Photoelectronics, Baku, Azerbaijan

New Sub-Doppler Absorption Resonances in a Thin Gas Cell Produced by Means of a Running Monochromatic Wave

Laser Physics, 2003, Vol. 13, p137-5, *H. Tajalli, **M. Mahmoudi, and ***A.C. Izmailov

*Center for Applied Physics and Astronomical Research, Tabriz University, Tabriz, Iran **Department of Physics, Zanjan University, Zanjan, Iran

*** Institute of Photoelectronics, Baku, Azerbaijan

Coherent Population Trapping in the Open Three-Level Cascade System

Iranian Journal of Physics Research, 2005, Vol. 4, p245-54, M.H. Mahdieh, H. Ghasem and N. Mohammadzadeh

Photo-Excitation of Cd Atom by Optogalvaanic Technique Monitoring

Physics Letters A, 2006, Vol. 357, p66-71, *M. Mahmoudi, **M. Sahrai, and ***H. Tajalli

*Department of Physics, Zanjan University, Zanjan, Iran

**Institute for Advanced Studies in Basic Sciences, Zanjan, Iran

***Research Institue for Applied Physics and Astronomy, Tabriz University, Tabriz, Iran Subluminal and Superluminal Light Propagation via Interference of Incoherent Pump Fields

Journal of Sciences, Islamic Republic of Iran, 2006, Vol. 17, p273-9, M. Sahrai and H. Tajalli

Localizing of a Four-Level Atom via Absorption Spectrum

Journal of Sciences, Islamic Republic of Iran, 2006, Vol. 17, p351-8, S. Roshan Entezar and H. Tajalli

Spontaneous Emission Spectrum from a Driven Three-level Atom in a Double-Band Photonic Crystal

Laser Physics, 2007, Vol. 17, p40-44, M. Sahri, M. Mahmoudi, and R. Kheradmand Atom Localization of a Two-Level Pump-Probe System via the Absorption Spectrum

Laser Focus, 2007, Vol. 17, p98-102, M. Sahrai Atom Localization via Absorption Spectrum

Journal of Physics B, 2007, Vol. 40, p2927-2937, S. Roshan Entezar Effect of a Modifed Reservor on the Nature of Interference in the Spontaneous Emission of a Drvien Four-Level Atom

Laser Isotope Separation Related Research

Review:

The 13th International Summer Symposium on Science and World Affairs, Berlin, Germany, July 20-30, 2001, P. Parvin, B. Sajad, K. Silakhori, M. Hooshvar, and Z. Zamanipour MLIS versus AVLIS Progress in Nuclear Energy, 2004, Vol. 44, p331-45, P. Parvin, B. Sajad, K. Silakhori, M. Hooshvar and Z. Zamanipour Molecular Laser Isotope Separation versus Atomic Vapor Laser Isotope Separation

Atomic Vapor Laser Isotope Separation

Conference Papers:

Proceedings of the 12th International Conference on Microelectronics, Tehran, Iran, October 31 – November 2, 2000, M. Ahadi, K. Jamshidi and B. Rashidian Design and Implementation of an Adaptive Controller for an Electronbeam Evaporation System

Journal Articles:

Plasma Sources, Science and Technology, 2003, Vol. 12, p513-22, M.H. Mahdieh Two-Dimensional Evaluation of an Ion Plasma Produced by Pulsed Lasers Extracted by Non-Parallel Collectors

Iranian Journal of Science and Technology, 2004, Vol. 29, p247-57, M.H. Mahdieh and F. Marsusi Evaluation of Three-Step Selective Photo-Ionization of Gd¹⁵⁷, and Gd¹⁵⁵ Isotopes

International Journal of Engineering Science, 2005, Vol. 16, p99-109, M.H. Mahdieh and A. Gavili Two Dimensional Hydrodynamics of Uniform Ion Plasma in Electrostatic Field

Two-Dimensional Hydrodynamics of Uniform Ion Plasma in Electrostatic Field

Optics and Spectroscopy, 2005, Vol. 98, p875-8, S. Jelvani, B. Khodadoost, and S. Behrouzinia

Measurement of Isotope Shifts of Gadolinium Levels by Laser-Induced Fluorescence Spectroscopy

Iranian Journal of Physics Research, 2005, Vol. 4, p245-54, M.H. Mahdieh, H. Ghasem and N. Mohammadzadeh Photo-Excitation of Gd Atom by Optogalvanic Technique Monitoring

Journal of Physics D, 2006, Vol. 39, p135-47, M.H. Mahdieh and A. Gavili Hydrodynamics of a Non-Uniform Super-Gaussian Ion Plasma Produced by Pulsed Lasers in an Electrostatic Field

Optics and Spectroscopy, 2006, Vol. 100, p188-91, S. Jelvani, B. Khodadoost, and S. Behrouzinia Measurement of the Velocity Distribution of Neutral Atoms Using Laser-Induced Fluorescence

Molecular Laser Isotope Separation

Thesis:

K. Silakhori, Thesis (M.S.), July 2000, Amirkabir Technical University, Department of Physics and Nuclear Science, Tehran, Iran Laser Isotope Separation Methods Based on MPA by Short Pulse Lasers

M. Hooshvar, Thesis (M.S.), 2001, Amirkabir Technical University, Department of Physics and Nuclear Science, Tehran, Iran Molecular Laser Isotope Separation of SF_6 Molecules by TEA CO₂ Lasers

S. Gharemani, Thesis (M.S.), 2002, Amirkabir Technical University, Department of Physics and Nuclear Science, Tehran, Iran The Theoretical Study of Multiphoton Absorption for Laser Isotope Separation

B. Sajad, Thesis (PhD), Inprocess, Amirkabir Technical University, Department of Physics and Nuclear Science, Tehran, Iran The Isotope Separation of Sulfur in SF₆ with Molecular Photodissociation Based on Multiphoton Absorption of Pulsed CO₂ Laser in Multiline Process

Conference Papers:

9th Congress of Chemical and and Chemical Engineering, 1993, H. Golnabi Laser Isotope Separation by Photochemical Reactions

National Seminar and Workshop on Lasers and Their Applications in Polymers, Tehran, April 30 – May 1, 1997, F. Soltanmoradi IR Multi Photo Absorption by Molecules

The First Conference on the Application of Physics and Nuclear Science on Medicine and Industry, Tehran, Iran, 1999, P. Parvin, K. Silikhori, and Z. Zamanipour The ³⁴S Isotope Separation with Multiphoton Disociation of SF₆ Moleculaes by TEA CO₂ Laser

Conference on the Applications of Physics and Nuclear Medicines in Medicine and Industry, Tehran, February 7, 2000, P. Parvin, K. Silakhori, Z. Zamani, and B. Ghanbarzadeh

³⁴S Isotope Separation by Photodissociation Process Due to Multi Photon Absorption by SF_6 Molecules by the Exposure of High Power-Short Pulse CO_2 Laser

The 7th Optics Congression of Iran, Tehran, Iran, 2000, P. Parvin, K. Silikhori, and Z. Zamanipour

The Measurement of Molecular Laser Isotope Separation of ${}^{34}SF_6$ in SF₆ Molecules by IR Spectroscopy

The 7th Congress on Nuclear Physics in Iran, Mashad, Iran, 2000, P. Parvin, K. Silikhori, B. Sajad and Z. Zamanipour The Isotope Separation of Light Molecules by MOLIS

Annual Physics Conference of Iran, Zanjan, Iran, 2002, B. Sajad and P. Parvin The Rate Equation and Mulitphoton Absorption Process

The Nineth Photonic Conference of Iran, Tehran, Iran, 2002, P. Parvin, B. Sajad, and Z. Zamanipour The Selectivity Increase of SF_6 Dissociation with Untuned TEA-CO₂ Laser Comparing Tuned Beam at 10.6um

2003 European Quantum Electronics Conference, Munich, Germany, 2003, P. Parvin Selective Obliteration of SF₆ Molecules Based on Multiphoton Absorption

Journal Articles:

Journal of the Physical Society of Japan, 1998, Vol. 67, 4296-9, E.K. Goharshadi Direct Determination of the Interaction Potentials of Sulfur Hexafluoride-Noble Gases from the Extended Principle of Corresponding States

Journal of Sciences, IRI, 1999, Vol. 10, p202-7, H. Golnabi A Model Study of Laser Isotope Separation by Photoionization or Photodissociation Process

Optics Communications, 2000, Vol. 176, p137-48, A.C. Izmailov, M. Mahmoudi and H. Tajalli

On the Selective Photoexcitation of Molecules within the Homogenous Width of Optical Lines

Journal of Science, Azad Islamic University of Iran, 2003, Vol. 47, A. Aghamir, P. Parvin, H. Ghahremani, and B. Sajad Rate Equation Model of Multiphoton Dissociation of SF₆ Isotopes by CO₂ Laser

Iranian Journal of Nuclear Science and Technology, 2004, Vol. 41, p771-6, B. Sajad, P. Parvin, K. Silakhori, Z. Zamanipour and M. Hooshvar Dissociation Rate Measurements for Selectivity Evaluation in SF₆: Selective Dissociation by Multiline vs. Single Line CO₂ Laser

Journal of Physics D: Applied Physics, 2004, Vol. 37, p3402-8, B. Sajad, P. Parvin and M.A. Bassam SF_6 Decomposition and Layer Formation Due to Excimer Laser Photoablation of SiO₂ Surface at Gas-Solid System