ISSN: 2161-6795 Vol. 2, No. 2, April 2012



World Journal of Nuclear Science and Technology



Journal Editorial Board

ISSN 2161-6795 (Print) ISSN 2161-6809 (Online)

http://www.scirp.org/journal/wjnst

Editorial Board

Dr. Abdullah Aydin Kirikkale University, Turkey

Dr. Jiejin Cai Sun Yat-sen University, China

Prof. Ahmet CengizUluda University, Turkey

Prof. Andrzej Grzegorz Chmielewski Institute of Nuclear Chemistry, Poland

Prof. Abdelmajid Choukri University of Ibn Tofail, Morocco

Prof. Snežana Dragovic University of Belgrade, Serbia

Prof. Hardy Christian Ekberg Chalmers University of Technology, Sweden

Prof. Shilun Guo China Institute of Atomic Energy, China

Prof. Shaban Ramadan Mohamed Harb South Valley University, Egypt

Prof. Xiaolin Hou Technical University of Denmark, Denmark

Prof. Ning Liu Sichuan University, China

Prof. Man Gyun Na Chosun University, Korea (South)

Prof. Dragoslav Nikezic University of Kragujevac, Serbia

Dr. Rafael Rodríguez Pérez University of Las Palmas de Gran Canaria, Spain

Prof. K. Indira Priyadarsini Bhabha Atomic Research Centre, India

Prof. Vitalii D. Rusov Odessa National Polytechnic University, Ukraine

Prof. Chhanda Samanta Saha Institute of Nuclear Physics, India

Dr. Wataru Shu Japan Atomic Energy Agency, Japan

Prof. Kune Y. Suh Seoul National University, Korea (South)

Prof. João dias de Toledo Arruda-NetoUniversity of São Paulo, Brazil

Prof. Avesh Kumar Tyagi Homi Bhabha National Institute, India

Prof. Marco Túllio Menna Barreto de Vilhena Federal University of Rio Grande do Sul, Brazil



TABLE OF CONTENTS

Volume 2	Number 2	April 2012
	Cell Calculation Using Collision Probability Method with at Flux Approach	
M. A. Shafii, Z.	Su'ud, A. Waris, N. Kurniasih	49
O	he Effects of Neutron Source Number and Arrangement in Landmines hermal Neutron Capture Gamma Ray Analysis	3
L. A. Shiramin,	S. F. Masoudi	54
Molybdenum (Carbide Nano-Powder for Production of Mo-99 Radionuclides	
V. D. Risovany,	K. V. Rotmanov, G. I. Maslakov, Y. D. Goncharenko, G. A. Shimansky,	
A. I. Zvir, I. M	I. Smirnova, I. N. Kuchkina	58

Copyright © 2012 SciRes.

World Journal of Nuclear Science and Technology (WJNST)

Journal Information

SUBSCRIPTIONS

The World Journal of Nuclear Science and Technology (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright©2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assumes no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: wjnst@scirp.org



World Journal of Nuclear Science and Technology (WJNST)

ISSN 2161-6795 (Print) ISSN 2161-6809 (Online) http://www.scirp.org/journal/wjnst

World Journal of Nuclear Science and Technology (WJNST) is an international peer-reviewed, open access journal publishing in English original research studies, reviews in all aspects of nuclear science and technology and its applications. Symposia or workshop papers may be published as supplements.

Editorial Board

Dr. Abdullah Aydin

Dr. Jiejin Cai

Prof. Ahmet Cengiz

Prof. Andrzej Grzegorz Chmielewski

Prof. Abdelmajid Choukri

Prof. Snežana Dragovic

Prof. Hardy Christian Ekberg

Prof. Shilun Guo

Prof. Shaban Ramadan Mohamed Harb

Prof. Xiaolin Hou

Prof. Ning Liu

Prof. Man Gyun Na

Prof. Vitalii D. Rusov

Prof. Dragoslav Nikezic

Dr. Rafael Rodríguez Pérez

Prof. K. Indira Priyadarsini

Prof. Chhanda Samanta

Dr. Wataru Shu Prof. Kune Y. Suh

Prof. João dias de Toledo Arruda-Neto

Prof. Avesh Kumar Tyagi

Prof. Marco Túllio Menna Barreto de Vilhena

Subject Coverage

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

- Fuel Cycle and Isotopes
- Global Nuclear Security Technology
- Nonreactor Nuclear Facilities
- Nuclear and Chemical Waste Management
- Nuclear and Particle Physics
- Nuclear Cardiology
- Nuclear Energy
- Nuclear Engineering and Design
- Nuclear Fusion

- Nuclear Instruments and Methods
- Nuclear Magnetic Resonance Spectroscopy
- Nuclear Materials
- Nuclear Medicine and Molecular Imaging
- Nuclear Medicine and Biology
- Nuclear Physics
- Nuclear Structural Engineering
- Nuclear Science and Techniques

- Nuclear Track Detection
- Nuclear Tracks and Radiation Measurements
- Radiation Applications and Instrumentation
- Radioanalytical and Nuclear Chemistry
- Reactor and Nuclear Systems
- Reactor Science and technology
- Solid State Nuclear Magnetic Resonance

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the WJNST.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-mail

http://www.scirp.org/journal/wjnst E-mail: wjnst@scirp.org