

NUCLEAR TECHNOLOGY & RADIATION PROTECTION

an international
scientific journal

Vol. XXXI ♦ No. 1

Contents

Papers

- Milan P. Pešić*
A STUDY ON THE USE OF THE REACTOR BASIC EXPERIMENTS
IN THE U-D₂O LATTICES OF THE RB CRITICAL ASSEMBLY FOR
VALIDATION OF MODERN NUCLEAR DATA LIBRARIES 1-15
- Fawaz Alroumi, Donghoon Kim, Ryan Schow, Tatjana Jevremovic*
CHARACTERIZATION OF CONTROL ROD WORTHS AND
FUEL ROD POWER PEAKING FACTORS IN THE UNIVERSITY
OF UTAH TRIGA MARK I REACTOR 16-27
- Ehsan Boustani, Samad Khakshournia, Hossein Khalafi*
A PRAGMATIC APPROACH TOWARDS DESIGNING A SECOND
SHUTDOWN SYSTEM FOR TEHRAN RESEARCH REACTOR 28-36
- Yury A. Teterin, Konstantin I. Maslakov, Mikhail V. Ryzhkov,
Anton Yu. Teterin, Kirill E. Ivanov, Stepan N. Kalmykov,
Vladimir G. Petrov, Dmitry N. Suglobov*
VALENCE XPS STRUCTURE AND CHEMICAL BOND IN Cs₂UO₂Cl₄ 37-50
- Sangkyu Lee, Amanda Foley, Tatjana Jevremovic*
NOVEL PRECISION ENHANCEMENT ALGORITHM WITH
REDUCED IMAGE NOISE IN COSMIC MUON TOMOGRAPHY
APPLICATIONS 51-64
- Miloš Z. Živanović, Gordana K. Pantelić, Jelena D. Krneta Nikolić,
Milica M. Rajačić, Dragana J. Todorović*
RADON MEASUREMENTS WITH CHARCOAL CANISTERS
Temperature and Humidity Considerations 65-72
- Elham Hasanzadeh, Fereidoun Mianji, Asghar Sadighzadeh,
Farhang Mizani*
COMPARISON OF PASSIVE AND ACTIVE RADON MEASUREMENT
METHODS FOR PERSONAL OCCUPATIONAL DOSE ASSESSMENT 73-78
- Adewale Akinmosin, Michael A. Oladunjoye, Fabian Essien*
EVALUATION OF THE NATURAL RADIOACTIVITY LEVEL OF
NIGERIAN TAR SAND DEPOSITS, EASTERN DAHOMEY
BASIN, SOUTHWESTERN NIGERIA 79-88
- Seyed Mostafa Ghavami, Hosein Ghiasi, Asghar Mesbahi*
MONTE CARLO MODELING OF THE YTTRIUM-90
NANOSPHERES APPLICATION IN THE LIVER RADIONUCLIDE
THERAPY AND ORGANS DOSES CALCULATION 89-96
- Marija D. Obrenović, Djordje R. Lazarević, Srbojub J. Stanković,
Nenad M. Kartalović*
THE IMPACT OF RADIATION ON SEMICONDUCTING
CHARACTERISTICS OF MONOCRYSTALLINE
SILICON AND GERMANIUM 97-101
- Gerd Juergen Beyer, Bernd Eichler, Teja Reetz, Rudolf Muenze,
Jožef J. Comor*
NEW HEAD PROCESS FOR NON-HEU ⁹⁹Mo PRODUCTION
BASED ON THE OXIDATION OF IRRADIATED UO₂-PELLETS
FORMING SOLUBLE U₃O₈ 102-108

Erratum 109

FOUR ISSUES PER YEAR

List of Reviewers