

Contents

REVIEW ARTICLE

- 2241** A Review of Neutron–Gamma-Ray Discrimination Methods Using Organic Scintillators
Imane Ahnouz, Hanan Arahmane, Rajaa Sebihi

RESEARCH ARTICLES

- 2274** Some Results Concerning the Singular Solution of the Conservative Transport Equation in Spherical Geometry
R. D. M. Garcia
- 2291** Improved Collision Probability Analysis of the Double-Heterogeneity Problem Based on Matrix Chord Length Correction
Zhaoyu Liang, Ding She, Yutong Wen, Lei Shi, Zuoyi Zhang
- 2304** Demonstrating a Quantitative and Systematic Approach to Reducing Excess Conservatism in Nuclear Criticality Safety Analyses
Sharbrenai Anise Holyk, Robert B. Hayes
- 2316** Convergence Study of 2D Transport Method for Multigroup k-Eigenvalue Problems with High-Order Scattering Source Using Fourier Analysis
Boran Kong, Longfei Xu, Baiwen Li
- 2335** Research on Nuclear Power Plant Operational Task Complexity Assessment Method Based on Group Decision Making and Deep Learning of EEG Signals
Dongliang Zhang, Jie Wu, Kunpeng Wu, Hanming Tao
- 2350** A Consequence-Informed Licensing Path Selection for the Design of Physical Protection Systems at Commercial Nuclear Power Facilities
Thomas Freyman, Karen Vierow Kirkland
- 2368** Pre-Experimental Assessment of Uranyl Nitrate Solution Irradiation in Kartini Reactor Facilities
Feryantama Putra, Syarip, Sihana
- 2382** Numerical Investigation of Process Parameter Effects on Flow Oscillations in a Natural Circulation Boiling Integral PWR-Type SMR Test Rig
Muhammad Ishaq, Muhammad Zaman, Muhammad Ilyas, Alam Nawaz Khan Wardag, Mansoor H. Inayat

—continued—

Contents continued

VOLUME 198 · NUMBER 12 · DECEMBER 2024

- 2403** Verification of Griffin-Pronghorn-Coupled Multiphysics Code System Against CNRS Molten Salt Reactor Benchmark
Mustafa K. Jaradat, Namjae Choi, Abdalla Abou-Jaoude
- 2437** Optimizing the Fixed Number Detector Placement for the Nuclear Reactor Core Using Reinforcement Learning
Kai Tan, Fan Zhang
- 2460** On the Use of the Jacobian-Free Newton Krylov Method to Generate One-Group Discontinuity and Super Homogenization Factors for Full-Core Neutron Diffusion Simulations
Bailey Painter, Dan Kotlyar