Contents

RESEARCH ARTICLES

1109 Thermal Assessment of Repository Footprint Requirement for Advanced Fuel Cycles
   Milos I. Atz, Massimiliano Fratoni

1129 Reliability Evaluation of Complex Nuclear Energy Redundancy Systems with Atypical Time-Distribution Events
   Shaoxuan Wang, Zhixian Lin, Ming Sun, Yuantao Yao, Jie Wu, Daochuan Ge

1145 Heat Transfer Analysis of Core Melt Contact with a CANDU Calandria
   Robert David

1154 Criticality Evaluation During Fuel Debris Particle Sedimentation Using Coupled DEM-MPS Code
   Shigeki Shiba, Daiki Iwahashi, Tsuyoshi Okawa

1164 Sensitivity Analysis of Transient Critical Heat Flux by RIA Under High-Pressure Flow Boiling Conditions in TRTL
   Nicholas A. Meehan, Seok Bin Seo, Trevor K. Howard, Nicholas R. Brown

1189 Monte Carlo Analysis of Coolant Stream Impurity Gamma Emissions in Gas-Cooled Fast Reactors
   Londrea J. Garrett, Milos Burger, Adam Burak, Xiaodong Sun, Piyush Sabharwall, Igor Jovanovic

1197 Evaluation of Control Rod Interaction Measurement in the Prototype Fast Reactor Monju
   Kazuya Ohgama, Taira Hazama, Hiroki Katagiri, Atsushi Takegoshi

1215 Evaluation of BORAL Panels from an Operating Spent Fuel Pool
   Hatice Akkurt

1229 A Monte Carlo Study for Soft Tissue Equivalency of Potential Polymeric Biomaterials Used in Carbon Ion Radiation Therapy
   Fatih Ekinci, Erikan Bostanci, Mehmet Serdar Güzel, Özlem Dagli