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Journal Information

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Classification History

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2026		✓	✓	
2025		✓	✓	
2024		✓	✓	
2023		✓	✓	
2021/2022		✓	✓	
2020		✓	✓	
2019		✓	✓	
2018		✓		

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Recent Articles

Labeled-Particle Hybrid Monte Carlo–Discrete Ordinates Transport with Quasi–Monte Carlo Sampling
2026-10-28 Pages 1-20
Authors: Johannes Krotz, Ryan G. McClarren
DOI: 10.1080/00295639.2026.2744026

Benchmarking and Theory-Guided Allocation of Monte Carlo Particle Histories in Neutron Transport with Thermal-Hydraulic Feedback
2026-10-27 Pages 1-11
Authors: Kaiwen Li, Jan Dufek
DOI: 10.1080/00295639.2026.2745306

Peacock: A Monte Carlo Code for Reactor Physics
2026-10-26 Pages 1-16
Authors: William C. Dawn, Charles Wemple, Tung D. C. Nguyen et al.
DOI: 10.1080/00295639.2026.2746851

Transfer Learning for Multifidelity Surrogate Modeling of Fuel Irradiation in Lead-Cooled Fast Reactors
2026-10-26 Pages 1-15
Authors: Burak Sarioglu, Victor J. Casas-Molina, Riccardo Rossa et al.
DOI: 10.1080/00295639.2026.2746242

Characterization of Sodium Vapor Formation During Simulated Fuel-Coolant Interaction Using Real-Time X-ray Imaging
2026-10-23 Pages 1-14
Authors: Avinash Kumar Acharya, S. Mahadevan, Hemanth E. Rao et al.
DOI: 10.1080/00295639.2026.2746856

Managing Uncertainty in Efficiency, Safety, and Independence for the Licensing and Regulation of Advanced Nuclear Reactors
2026-10-21 Pages 1-29
Authors: George Joslin, Arden Rowell, Ha Bui et al.
DOI: 10.1080/00295639.2026.2746252

Verification and Validation of Neutron Cross Sections and Covariances for Iron Using Deterministic and Monte Carlo Transport, Sensitivity and Uncertainty Analysis of SINBAD Benchmark Experiments
2026-10-21 Pages 1-20
Authors: Ivan A. Kodeli
DOI: 10.1080/00295639.2026.2737893

Uncertainty Reduction and Bias Correction of Effective Multiplication Factor in an LFR Using Criticality Experiments
2026-10-21 Pages 1-14
Authors: Daan Houben, Luca Fiorito, Pierre-Etienne Labeau et al.
DOI: 10.1080/00295639.2026.2746196

Monte Carlo–Informed Surrogate Model for the Analysis of Decay Heat Behavior in Molten Salt Reactors
2026-10-19 Pages 1-18
Authors: Nicolò Iaselli, Stefano Lorenzi
DOI: 10.1080/00295639.2026.2744010

MC21/CTF Solutions to OECD/NEA TVA Watts Bar Unit 1 Multiphysics Cycle 1 Benchmark Exercises
2026-10-14 Pages 1-14
Authors: Edwin J. Grant, Daniel J. Kelly, Brian N. Aviles
DOI: 10.1080/00295639.2026.2741436