Jan Dufek

List of Publications by Year
in descending order

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Version: 2024-02-01

27	335	1040056	839539
papers	citations	9	18
		h-index	g-index

27	27	27	137
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The stochastic implicit Euler method â€“ A stable coupling scheme for Monte Carlo burnup calculations. Annals of Nuclear Energy, 2013, 60, 295-300.	1.8	42
2	Stochastic Approximation for Monte Carlo Calculation of Steady-State Conditions in Thermal Reactors. Nuclear Science and Engineering, 2006, 152, 274-283.	1.1	41
3	Numerical Stability of Existing Monte Carlo Burnup Codes in Cycle Calculations of Critical Reactors. Nuclear Science and Engineering, 2009, 162, 307-311.	1.1	41
4	Numerical stability of the predictorâ€“corrector method in Monte Carlo burnup calculations of critical reactors. Annals of Nuclear Energy, 2013, 56, 34-38.	1.8	37
5	Preventing xenon oscillations in Monte Carlo burnup calculations by enforcing equilibrium xenon distribution. Annals of Nuclear Energy, 2013, 60, 78-85.	1.8	31
6	Fission matrix based Monte Carlo criticality calculations. Annals of Nuclear Energy, 2009, 36, 1270-1275.	1.8	26
7	Building the nodal nuclear data dependences in a many-dimensional state-variable space. Annals of Nuclear Energy, 2011, 38, 1569-1577.	1.8	12
8	Description of a stable scheme for steady-state coupled Monte Carloâ€“thermalâ€“hydraulic calculations. Annals of Nuclear Energy, 2014, 68, 1-3.	1.8	12
9	Stability and convergence problems of the Monte Carlo fission matrix acceleration methods. Annals of Nuclear Energy, 2009, 36, 1648-1651.	1.8	11
10	Neutron batch size optimisation methodology for Monte Carlo criticality calculations. Annals of Nuclear Energy, 2015, 75, 620-626.	1.8	11
11	Development and comparison of spectral methods for passive acoustic anomaly detection in nuclear power plants. Applied Acoustics, 2014, 83, 100-107.	3.3	9
12	Estimation of errors in the cumulative Monte Carlo fission source. Annals of Nuclear Energy, 2014, 72, 151-155.	1.8	8
13	Monte Carlo criticality calculations accelerated by a growing neutron population. Annals of Nuclear Energy, 2016, 94, 16-21.	1.8	8
14	Optimal neutron population growth in accelerated Monte Carlo criticality calculations. Annals of Nuclear Energy, 2018, 117, 297-304.	1.8	8
15	Derivation of a stable coupling scheme for Monte Carlo burnup calculations with the thermalâ€“hydraulic feedback. Annals of Nuclear Energy, 2013, 62, 260-263.	1.8	7
16	Time step length versus efficiency of Monte Carlo burnup calculations. Annals of Nuclear Energy, 2014, 72, 409-412.	1.8	6
17	Stabilization effect of fission source in coupled Monte Carlo simulations. Nuclear Engineering and Technology, 2017, 49, 1095-1099.	2.3	6
18	Stochastic-deterministic response matrix method for reactor transients. Annals of Nuclear Energy, 2020, 140, 107103.	1.8	5

#	Article	IF	Citations
19	From once-through nuclear fuel cycle to accelerator-driven transmutation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 630-633.	1.6	4
20	Correlation of errors in the Monte Carlo fission source and the fission matrix fundamental-mode eigenvector. Annals of Nuclear Energy, 2016, 94, 415-421.	1.8	4
21	Does neutron clustering affect tally errors in Monte Carlo criticality calculations?. Annals of Nuclear Energy, 2021, 155, 108130.	1.8	3
22	Optimal time step length and statistics in Monte Carlo burnup simulations. Annals of Nuclear Energy, 2020, 139, 107244.	1.8	2
23	An efficient parallel computing scheme for Monte Carlo criticality calculations. Annals of Nuclear Energy, 2009, 36, 1276-1279.	1.8	1
24	Performance of the Explicit Euler and Predictor-Correctorâ€“Based Coupling Schemes in Monte Carlo Burnup Calculations of Fast Reactors. Nuclear Technology, 2015, 191, 193-198.	1.2	0
25	APPLICATION OF RESPONSE MATRIX METHOD TO TRANSIENT SIMULATIONS OF NUCLEAR SYSTEMS. EPJ Web of Conferences, 2021, 247, 04014.	0.3	0
26	OPTIMISATION OF MONTE CARLO BURNUP SIMULATIONS. EPJ Web of Conferences, 2021, 247, 04016.	0.3	0
27	Optimised Iteration in Coupled Monte Carlo â€“ Thermal-Hydraulics Calculations. , 2014, , .		0