Shanfang Huang

List of Publications by Year
in descending order

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41	548	687363 13	677142 22
papers	citations	h-index	g-index

41	41	41	258
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neutronic and Thermal-Mechanical Coupling Schemes for Heat Pipe-Cooled Reactor Designs. Journal of Nuclear Engineering and Radiation Science, 2022, 8, .	0.4	2
2	Effect of inclination angle on the startup of a frozen sodium heat pipe. Applied Thermal Engineering, 2022, 201, 117625.	6.0	33
3	Single neutron tracking method for calculating the probability of survival based on the RMC code. Annals of Nuclear Energy, 2022, 165, 108763.	1.8	1
4	Research on global neighbor list method in Monte Carlo code RMC. Annals of Nuclear Energy, 2022, 167, 108861.	1.8	1
5	Coupled irradiation-thermal-mechanical analysis of the solid-state core in a heat pipe cooled reactor. Nuclear Engineering and Technology, 2022, 54, 2094-2106.	2.3	11
6	Convergence diagnostics for Monte Carlo fission source distributions using the Wasserstein distance measure. Nuclear Engineering and Design, 2022, 389, 111675.	1.7	5
7	Development of an improved direct kinetic simulation capability in RMC code. Annals of Nuclear Energy, 2022, 173, 109110.	1.8	2
8	Neutronic and thermal-mechanical coupling analyses in a solid-state reactor using Monte Carlo and finite element methods. Annals of Nuclear Energy, 2021, 151, 107923.	1.8	40
9	Kinetic methods in Monte Carlo code RMC and its implementation to C5G7-TD benchmark. Annals of Nuclear Energy, 2021, 151, 107864.	1.8	9
10	Improved generalized perturbation theory method for sensitivity analysis of generalized response function. Progress in Nuclear Energy, 2021, 134, 103643.	2.9	2
11	Improvement of sensitivity and uncertainty analysis capabilities of generalized response in Monte Carlo code RMC. Annals of Nuclear Energy, 2021, 154, 108099.	1.8	5
12	An improved tracking method for particle transport Monte Carlo simulations. Journal of Computational Physics, 2021, 437, 110330.	3.8	4
13	A flow rate measurement method for horizontal oil-gas-water three-phase flows based on Venturi meter, blind tee, and gamma-ray attenuation. Flow Measurement and Instrumentation, 2021, 80, 101965.	2.0	13
14	A hash mapping method using cell vectors in Monte Carlo code RMC. Annals of Nuclear Energy, 2021, 160, 108395.	1.8	3
15	Temperature perturbation method using on-the-fly treatment of the cross-sections in the resolved resonance region. Annals of Nuclear Energy, 2021, 159, 108329.	1.8	1
16	Transient heat pipe failure accident analysis of a megawatt heat pipe cooled reactor. Progress in Nuclear Energy, 2021, 140, 103904.	2.9	23
17	Coupled neutronic, thermal-mechanical and heat pipe analysis of a heat pipe cooled reactor. Nuclear Engineering and Design, 2021, 384, 111473.	1.7	20
18	Improved adaptive variance reduction algorithm based on RMC code for deep penetration problems. Annals of Nuclear Energy, 2020, 137, 107113.	1.8	14

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19	Heat pipe failure accident analysis in megawatt heat pipe cooled reactor. Annals of Nuclear Energy, 2020, 149, 107755.	1.8	54
20	Geometric sensitivity analysis of generalized response function with RMC code. Annals of Nuclear Energy, 2020, 149, 107824.	1.8	2
21	Superhistory-based differential operator method for generalized responses sensitivity calculations. Annals of Nuclear Energy, 2020, 140, 107291.	1.8	6
22	Criticality benchmarking of ENDF/B-â...§.0 and JEFF-3.3 neutron data libraries with RMC code. Nuclear Engineering and Technology, 2020, 52, 1917-1925.	2.3	8
23	Neutronics and thermal-hydraulics coupling analysis in accelerator-driven subcritical system. Progress in Nuclear Energy, 2020, 122, 103235.	2.9	12
24	Calculating the k-Eigenvalue Sensitivity to Typical Geometric Perturbations with the Adjoint-Weighted Method in the Continuous-Energy Reactor Monte Carlo Code RMC. Nuclear Science and Engineering, 2019, 193, 1186-1218.	1.1	5
25	RMC/CTF multiphysics solutions to VERA core physics benchmark problem 9. Annals of Nuclear Energy, 2019, 133, 837-852.	1.8	23
26	Gas flow rate measurement in low-quality multiphase flows using Venturi and gamma ray. Experimental Thermal and Fluid Science, 2019, 100, 319-327.	2.7	35
27	A TRANSIENT AND STEADY-STATE NETWORK MODEL FORANNULAR-WICK HEAT PIPES IN CONTINUUM FLOW PATTERN. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1363.	0.0	3
28	INVERSE UNCERTAINTY QUANTIFICATION OF CTF PHYSICAL MODEL PARAMETERS USING BAYESIAN INFERENCE. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1435.	0.0	0
29	EXPLORATION OF TRAINING MODE FOR PHD STUDENTS OF NUCLEAR ENGINEERING. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1376.	0.0	0
30	A new model for volume fraction measurements of horizontal high-pressure wet gas flow using gamma-based techniques. Experimental Thermal and Fluid Science, 2018, 96, 311-320.	2.7	22
31	CFD Analysis of the Passive Decay Heat Removal System of an LBE-Cooled Fast Reactor. Science and Technology of Nuclear Installations, 2018, 2018, 1-11.	0.8	1
32	Local Void Fractions and Bubble Velocity in Vertical Air-Water Two-Phase Flows Measured by Needle-Contact Capacitance Probe. Science and Technology of Nuclear Installations, 2018, 2018, 1-14.	0.8	10
33	Experimental study on steady-state heat transfer characteristics of the Nozzle-atomized dispersed flow. Applied Thermal Engineering, 2018, 140, 686-695.	6.0	3
34	BEAVRS full core burnup calculation in hot full power condition by RMC code. Annals of Nuclear Energy, 2017, 101, 434-446.	1.8	35
35	Prediction of Flow and Temperature Distributions in a High Flux Research Reactor Using the Porous Media Approach. Science and Technology of Nuclear Installations, 2017, 2017, 1-13.	0.8	3
36	Heat Transfer Calculation on Plate-Type Fuel Assembly of High Flux Research Reactor. Science and Technology of Nuclear Installations, 2015, 2015, 1-13.	0.8	14

#	Article	IF	Citations
37	A method of extending subcritical heat transfer correlations to supercritical conditions. Nuclear Engineering and Design, 2014, 266, 186-193.	1.7	6
38	Study on discharge coefficient of perforated orifices as a new kind of flowmeter. Experimental Thermal and Fluid Science, 2013, 46, 74-83.	2.7	67
39	Study on flow pattern maps in hilly-terrain airâ€“waterâ€“oil three-phase flows. Experimental Thermal and Fluid Science, 2013, 47, 158-171.	2.7	27
40	Equivalent water layer height (EWLH) measurement by a single-wire capacitance probe in gasâ€“liquid flows. International Journal of Multiphase Flow, 2008, 34, 809-818.	3.4	23
41	Optimization of spatial structure designs of control rod using Monte Carlo code RMC. Frontiers in Energy, 0, , 1.	2.3	0