Song Jing

List of Publications by Year
in descending order

27 papers	476 citations	1307594 7 h-index	677142 22 g-index
28 all docs	28 docs citations	28 times ranked	322 citing authors

#	Article	IF	Citations
1	Reactor pressure vessel damage (dpa/s) calculation and testing of 56Fe data libraries based on PCA benchmark model simulations using the SuperMC 3.4 code. Annals of Nuclear Energy, 2022, 166, 108694.	1.8	0
2	Analysis of gas-cooled fast reactor integral shielding experiment: "Wuerenlingen iron benchmark experiment (PROTEUS)" using SuperMC. Annals of Nuclear Energy, 2021, 152, 108016.	1.8	3
3	An artificial neural network based neutron field reconstruction method for reactor. Annals of Nuclear Energy, 2020, 138, 107195.	1.8	6
4	An adaptive regularized iterative FBP algorithm with high sharpness for irradiated fuel assembly reconstruction from few projections in FNCT. Annals of Nuclear Energy, 2020, 145, 107515.	1.8	5
5	Shielding analysis for TCP and IVVS bio-shield plugs of ITER. Fusion Engineering and Design, 2020, 153, 111478.	1.9	2
6	Development and Validation of an Adaptive Accurate Radiotherapy System KylinRay. Journal of Medical and Biological Engineering, 2019, 39, 498-507.	1.8	1
7	Verification and Validation of SuperMC3.2 Using VENUS-3 Benchmark Experiments. Journal of Nuclear Engineering and Radiation Science, 2019, 5, .	0.4	1
8	Preliminary analysis of reactivity reconstruction capability based on inverse kinetics method under different initial reactivity states. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	1
9	Data decomposition method for full-core Monte Carlo transport–burnup calculation. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	2
10	Development of Chinese Female Computational Phantom Rad-Human and Its Application in Radiation Dosimetry Assessment. Nuclear Technology, 2018, 201, 155-164.	1.2	4
11	Validation of SuperMC code by simulating a Metal-cooled fast reactor – BFS-62-3A. Annals of Nuclear Energy, 2018, 113, 122-129.	1.8	5
12	Validation of SuperMC with BEAVRS benchmark at hot zero power condition. Annals of Nuclear Energy, 2018, 111, 709-714.	1.8	11
13	Optimization of beam shaping assembly based on D-T neutron generator and dose evaluation for BNCT. Journal of the Korean Physical Society, 2017, 70, 816-821.	0.7	0
14	Bi-level spatial subdivision based monte carlo ray tracing directly using CAD models. Fusion Engineering and Design, 2017, 122, 211-217.	1.9	4
15	Advanced geometry navigation methods without cavity representation for fusion reactors. Fusion Engineering and Design, 2017, 122, 232-237.	1.9	2
16	Impacts of lung and tumor volumes on lung dosimetry for nonsmall cell lung cancer. Journal of Applied Clinical Medical Physics, 2017, 18, 22-28.	1.9	0
17	On-the-fly Doppler broadening method based on optimal double-exponential formula. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	3
18	Validation of Shielding Analysis Capability of SuperMC with SINBAD. EPJ Web of Conferences, 2017, 153, 02009.	0.3	6

#	Article	IF	Citations
19	CAD-based hierarchical geometry conversion method for modeling of fission reactor cores. Annals of Nuclear Energy, 2016, 94, 369-375.	1.8	12
20	Criticality validation of SuperMC with ICSBEP. Annals of Nuclear Energy, 2016, 87, 494-499.	1.8	18
21	CAD-based Monte Carlo automatic modeling method based on primitive solid. Annals of Nuclear Energy, 2016, 87, 162-166.	1.8	2
22	Preliminary Shielding Design and Analysis of Liquid Lead–Lithium Blanket for Chinese Fusion Engineering Testing Reactor. Journal of Fusion Energy, 2015, 34, 443-447.	1.2	2
23	Convex-based void filling method for CAD-based Monte Carlo geometry modeling. Annals of Nuclear Energy, 2015, 85, 380-385.	1.8	7
24	CAD-based Monte Carlo program for integrated simulation of nuclear system SuperMC. Annals of Nuclear Energy, 2015, 82, 161-168.	1.8	315
25	Optimal Spatial Subdivision method for improving geometry navigation performance in Monte Carlo particle transport simulation. Annals of Nuclear Energy, 2015, 76, 479-484.	1.8	10
26	ICONE23-1814 AUTOMATIC OPTIMIZED WIELANDT'S ACCELERATION METHOD OF SOURCE CONVERGENCE FOR MONTE CARLO CRITICALITY CALCULATION. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2015, 2015.23, _ICONE23-1-_ICONE23-1.	0.0	0
27	Benchmarking of CAD-based SuperMC with ITER benchmark model. Fusion Engineering and Design, 2014, 89, 2499-2503.	1.9	54