Qian Zhang

List of Publications by Year
in descending order

41 papers	243 citations	1163117 8 h-index	1058476 14 g-index
41 all docs	41 docs citations	41 times ranked	59 citing authors

#	Article	IF	Citations
1	The pseudo-resonant-nuclide subgroup method based globalâ€“local self-shielding calculation scheme. Journal of Nuclear Science and Technology, 2018, 55, 217-228.	1.3	46
2	An Improved Resonance Self-Shielding Calculation Method Based on Equivalence Theory. Nuclear Science and Engineering, 2015, 179, 233-252.	1.1	26
3	Heterogeneous Pseudo-Resonant Isotope Method for Resolved Resonance Interference Treatment in Resonance Self-Shielding Calculation. Nuclear Science and Engineering, 2016, 184, 495-513.	1.1	15
4	Implementation and performance analysis of the massively parallel method of characteristics based on GPU. Annals of Nuclear Energy, 2019, 131, 257-272.	1.8	14
5	Accurate resonance absorption calculation for fuel pins with non-uniform intra-pellet temperature profile based on ultra-fine-group slowing-down calculations. Annals of Nuclear Energy, 2018, 120, 392-401.	1.8	13
6	Implementation of the CPU/GPU hybrid parallel method of characteristics neutron transport calculation using the heterogeneous cluster with dynamic workload assignment. Annals of Nuclear Energy, 2020, 135, 106957.	1.8	12
7	Application of deep neural network for generating resonance self-shielded cross-section. Annals of Nuclear Energy, 2020, 149, 107785.	1.8	10
8	Overlapping communication and computation of GPU/CPU heterogeneous parallel spatial domain decomposition MOC method. Annals of Nuclear Energy, 2020, 135, 106988.	1.8	9
9	Improvements of subgroup method based on fine group slowing-down calculation for resonance self-shielding treatment. Annals of Nuclear Energy, 2020, 136, 106992.	1.8	9
10	Modeling of Resonance-Interference Effect in Depleted Fuel Compositions by Pseudo Resonant Isotopes. Nuclear Science and Engineering, 2018, 191, 46-65.	1.1	8
11	Investigation on the heterogeneous resonance integral in the embedded self-shielding method. Annals of Nuclear Energy, 2018, 120, 485-500.	1.8	8
12	Evaluation of improved subgroup resonance treatment based on Sanchez-Pomraning method for double heterogeneity in PWR. Annals of Nuclear Energy, 2020, 143, 107491.	1.8	8
13	Improvements on the method of ultra-fine-group slowing-down solution coupled with method of characteristics on irregular geometries. Annals of Nuclear Energy, 2020, 136, 107017.	1.8	7
14	Extended development of a Monte Carlo code OpenMC for fuel cycle simulation of molten salt reactor. Progress in Nuclear Energy, 2020, 118, 103115.	2.9	7
15	A comprehensive evaluation of the RPT method on FCM fuel in light water reactor. Annals of Nuclear Energy, 2020, 142, 107434.	1.8	7
16	Fitting-based resonance database method for resonance self-shielding calculations of large-scale task considering depletion and intra-pin distribution. Annals of Nuclear Energy, 2020, 139, 107247.	1.8	6
17	Improvements of the Embedded Self-Shielding Method with Pseudo-Resonant Isotope Model on the Multifuel Lattice System. Nuclear Science and Engineering, 2018, 192, 311-327.	1.1	5
18	Investigation of the chord length Markovian probability distribution for self-shielding treatment on double heterogeneity problem. Annals of Nuclear Energy, 2020, 146, 107658.	1.8	5

#	Article	IF	Citations
19	Evaluation of the MOC based on the Sanchez-Pomraning method for double heterogeneity system. Annals of Nuclear Energy, 2021, 151, 107922.	1.8	5
20	Problem-dependent compression method for burnup library. Annals of Nuclear Energy, 2020, 140, 107287.	1.8	4
21	DEVELOPMENT AND VERIFICATION OF POINT-DEPLETION CODE FOR PWR. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1681.	0.0	3
22	Least squares linear source approach in method of characteristics. Annals of Nuclear Energy, 2020, 138, 107142.	1.8	2
23	Assembly pin factor parameterization method based on the proper orthogonal decomposition. Annals of Nuclear Energy, 2020, 139, 107262.	1.8	2
24	Investigation on the depletion calculation with neutronic-temperature coupling in the fuel pellet of light water reactor. Annals of Nuclear Energy, 2020, 140, 107297.	1.8	2
25	A DEEP LEARNING BASED SURROGATE MODEL FOR ESTIMATING THE FLUX AND POWER DISTRIBUTION SOLVED BY DIFFUSION EQUATION. EPJ Web of Conferences, 2021, 247, 03013.	0.3	2
26	Improved subgroup method coupled with particle swarm optimization algorithm for intra-pellet non-uniform temperature distribution problem. Annals of Nuclear Energy, 2021, 153, 108070.	1.8	2
27	Analysis of Categorical Subgroup Method for Resonance Self-Shielding Treatment. Frontiers in Energy Research, 2019, 7, .	2.3	1
28	A Comparison Between the Embedded Self-Shielding Method and the Enhanced Neutron Current Method Based on the Equivalent Pin Cell Model on the Irregular Fuel Lattice Problem. Nuclear Science and Engineering, 2020, 194, 232-247.	1.1	1
29	Evaluation of burnup calculation for double-heterogeneity system based on Sanchez-MOC framework in LWR. Annals of Nuclear Energy, 2020, 147, 107668.	1.8	1
30	Investigation of the efficiency optimization for the improved subgroup resonance self-shielding treatment on the GPU platform. Annals of Nuclear Energy, 2021, 159, 108318.	1.8	1
31	Investigation on the modeling capability of ALPHA code for fuel rod deformation. Annals of Nuclear Energy, 2022, 169, 108892.	1.8	1
32	Development and verification of a GPU-based MOC transient solver. Annals of Nuclear Energy, 2022, 174, 109171.	1.8	1
33	GPU Based Two-Level CMFD Accelerating Two-Dimensional MOC Neutron Transport Calculation. Frontiers in Energy Research, 2020, 8, .	2.3	0
34	THE TWO-STEP APPROACH FOR WHOLE-CORE RESONANCE SELF-SHIELDING CALCULATION. EPJ Web of Conferences, 2021, 247, 03014.	0.3	0
35	Spatially Dependent Resonance Cross Sections in a Fuel Plate. , 2013, , .		0
36	Development and Application of a 2D/1D Fusion Code With Leakage Reconstruction Method. , 2018, , .		0

#	Article	IF	Citations
37	Multi-Dimensional Heterogeneous Resonance Integral Tables Generated for Embedded Self-Shielding Method Towards Irregular Lattices. , 2018, , .		0
38	IMPLEMENTATION OF A MASSIVELY PARALLEL METHOD OF CHARACTERISTICS NEUTRON TRANSPORT CALCULATION ON CPUS/GPUS HETEROGENEOUS HIGHPERFORMANCE COMPUTING CLUSTERS. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1451.	0.0	0
39	NEUTRONIC EVALUATION OF THE UO2-BEO FUEL BASED ON THE LATTICE PHYISICS CALCULATION. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1264.	0.0	0
40	RESONANCE TREATMENT BASED ON SUBGROUP METHOD IN TWO-DIMENSIONAL GEOMETRY. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1452.	0.0	0
41	RESEARCH ON ACCELERATION OF ULTRA-FINE-GROUP CALCULATION BASED ON METHOD OF CHARACTERISTIC. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1874.	0.0	0