

Steven P Hamilton

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

393
citations

840776

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752698

20
g-index

27
all docs

27
docs citations

27
times ranked

416
citing authors

#	ARTICLE	IF	CITATIONS
1	Domain decomposition in the GPU-accelerated Shift Monte Carlo code. <i>Annals of Nuclear Energy</i> , 2022, 166, 108687.	1.8	2
2	A Code-Agnostic Driver Application for Coupled Neutronics and Thermal-Hydraulic Simulations. <i>Nuclear Science and Engineering</i> , 2021, 195, 391-411.	1.1	5
3	DESIGN OF A CODE-AGNOSTIC DRIVER APPLICATION FOR HIGH-FIDELITY COUPLED NEUTRONICS AND THERMAL-HYDRAULIC SIMULATIONS. <i>EJW of Conferences</i> , 2021, 247, 06053.	0.3	0
4	Exascale applications: skin in the game. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190056.	3.4	53
5	Mesh independence of the generalized Davidson algorithm. <i>Journal of Computational Physics</i> , 2020, 409, 109322.	3.8	3
6	Singular value decomposition of adjoint flux distributions for Monte Carlo variance reduction. <i>Annals of Nuclear Energy</i> , 2020, 141, 107327.	1.8	0
7	Continuous-energy Monte Carlo neutron transport on GPUs in the Shift code. <i>Annals of Nuclear Energy</i> , 2019, 128, 236-247.	1.8	33
8	Optimization of processor allocation for domain decomposed Monte Carlo calculations. <i>Parallel Computing</i> , 2019, 87, 77-86.	2.1	6
9	Enhancing Monte Carlo proxy applications on GPUs. , 2019, , .		1
10	Eigenvalue Solvers for Modeling Nuclear Reactors on Leadership Class Machines. <i>Nuclear Science and Engineering</i> , 2018, 190, 31-44.	1.1	8
11	Multigroup Monte Carlo on GPUs: Comparison of history- and event-based algorithms. <i>Annals of Nuclear Energy</i> , 2018, 113, 506-518.	1.8	19
12	Deterministically estimated fission source distributions for Monte Carlo k-eigenvalue problems. <i>Annals of Nuclear Energy</i> , 2018, 119, 7-22.	1.8	1
13	Analysis of Monte Carlo accelerated iterative methods for sparse linear systems. <i>Numerical Linear Algebra With Applications</i> , 2017, 24, e2088.	1.6	20
14	Improving variance estimation in Monte Carlo eigenvalue simulations. <i>Annals of Nuclear Energy</i> , 2017, 110, 692-708.	1.8	6
15	Local Improvement Results for Anderson Acceleration with Inaccurate Function Evaluations. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, S47-S65.	2.8	25
16	Hot zero power reactor calculations using the Insilico code. <i>Journal of Computational Physics</i> , 2016, 314, 700-711.	3.8	6
17	Implementation, capabilities, and benchmarking of Shift, a massively parallel Monte Carlo radiation transport code. <i>Journal of Computational Physics</i> , 2016, 308, 239-272.	3.8	79
18	An assessment of coupling algorithms for nuclear reactor core physics simulations. <i>Journal of Computational Physics</i> , 2016, 311, 241-257.	3.8	35

#	ARTICLE	IF	CITATIONS
19	Efficient solution of the simplified P_N equations. Journal of Computational Physics, 2015, 284, 155-170.	3.8	23
20	A parallel multi-domain solution methodology applied to nonlinear thermal transport problems in nuclear fuel pins. Journal of Computational Physics, 2015, 286, 143-171.	3.8	15
21	A Monte Carlo synthetic-acceleration method for solving the thermal radiation diffusion equation. Journal of Computational Physics, 2014, 258, 338-358.	3.8	6
22	Massively Parallel, Three-Dimensional Transport Solutions for the k -Eigenvalue Problem. Nuclear Science and Engineering, 2014, 177, 111-125.	1.1	15
23	Validation Study of Pin Heat Transfer for UO ₂ Fuel Based on the IFA-432 Experiments. Nuclear Science and Engineering, 2014, 177, 275-290.	1.1	4
24	A Validation Study of Pin Heat Transfer for MOX Fuel Based on the IFA-597 Experiments. Nuclear Science and Engineering, 2014, 178, 172-185.	1.1	2
25	New multigrid smoothers for the Oseen problem. Numerical Linear Algebra With Applications, 2010, 17, 557-576.	1.6	24