

Michael Grosskopf

List of Publications by Year in descending order

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28
papers

759
citations

623734

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526287

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32
docs citations

32
times ranked

823
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Computer Model Calibration for Radiation Transport Simulation. <i>Technometrics</i> , 2021, 63, 27-39.	1.9	3
2	Exploring Sensitivity of ICF Outputs to Design Parameters in Experiments Using Machine Learning. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 2238-2246.	1.3	8
3	Identifying Entangled Physics Relationships Through Sparse Matrix Decomposition to Inform Plasma Fusion Design. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 2410-2419.	1.3	5
4	Informing nuclear physics via machine learning methods with differential and integral experiments. <i>Physical Review C</i> , 2021, 104, .	2.9	14
5	Coupling 1D xRAGE simulations with machine learning for graded inner shell design optimization in double shell capsules. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	10
6	Calibration of energy density functionals with deformed nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 074001.	3.6	7
7	Assessment of Novel Techniques for Nuclear Data Evaluation. , 2018, , 105-116.		2
8	Emulation of Numerical Models With Over-Specified Basis Functions. <i>Technometrics</i> , 2017, 59, 153-164.	1.9	6
9	Calibrating a large computer experiment simulating radiative shock hydrodynamics. <i>Annals of Applied Statistics</i> , 2015, 9, .	1.1	46
10	Prediction and Computer Model Calibration Using Outputs From Multifidelity Simulators. <i>Technometrics</i> , 2013, 55, 501-512.	1.9	69
11	Spline-Based Emulators for Radiative Shock Experiments With Measurement Error. <i>Journal of the American Statistical Association</i> , 2013, 108, 411-428.	3.1	15
12	Simulation of laser-driven, ablated plasma flows in collisionless shock experiments on OMEGA and the NIF. <i>High Energy Density Physics</i> , 2013, 9, 192-197.	1.5	5
13	Increase of the density, temperature and velocity of plasma jets driven by a ring of high energy laser beams. <i>High Energy Density Physics</i> , 2013, 9, 336-340.	1.5	10
14	A calibration and data assimilation method using the Bayesian MARS emulator. <i>Annals of Nuclear Energy</i> , 2013, 52, 103-112.	1.8	16
15	Measurement of Radiative Shock Properties by X-Ray Thomson Scattering. <i>Physical Review Letters</i> , 2012, 108, 145001.	7.8	34
16	Studying astrophysical collisionless shocks with counterstreaming plasmas from high power lasers. <i>High Energy Density Physics</i> , 2012, 8, 38-45.	1.5	82
17	Self-organized electromagnetic field structures in laser-produced counter-streaming plasmas. <i>Nature Physics</i> , 2012, 8, 809-812.	16.7	118
18	Blast-wave driven Kelvin-Helmholtz shear layers in a laser driven high-energy-density plasma. <i>Astrophysics and Space Science</i> , 2011, 336, 139-143.	1.4	15

#	ARTICLE	IF	CITATIONS
19	Astrophysically relevant radiation hydrodynamics experiment at the National Ignition Facility. <i>Astrophysics and Space Science</i> , 2011, 336, 207-211.	1.4	19
20	Radiative effects in radiative shocks in shock tubes. <i>High Energy Density Physics</i> , 2011, 7, 130-140.	1.5	38
21	Predictive modeling of a radiative shock system. <i>Reliability Engineering and System Safety</i> , 2011, 96, 1184-1193.	8.9	16
22	A physics informed emulator for laser-driven radiating shock simulations. <i>Reliability Engineering and System Safety</i> , 2011, 96, 1194-1207.	8.9	14
23	Follow-Up Experimental Designs for Computer Models and Physical Processes. <i>Journal of Statistical Theory and Practice</i> , 2011, 5, 119-136.	0.5	11
24	Observation of a Kelvin-Helmholtz Instability in a High-Energy-Density Plasma on the Omega Laser. <i>Physical Review Letters</i> , 2009, 103, 045005.	7.8	86
25	TWO-DIMENSIONAL BLAST-WAVE-DRIVEN RAYLEIGH-TAYLOR INSTABILITY: EXPERIMENT AND SIMULATION. <i>Astrophysical Journal</i> , 2009, 696, 749-759.	4.5	61
26	Modeling of multi-interface, diverging, hydrodynamic experiments for the National Ignition Facility. <i>Astrophysics and Space Science</i> , 2009, 322, 57-63.	1.4	6
27	Image processing of radiographs in 3D Rayleigh-Taylor decelerating interface experiments. <i>Astrophysics and Space Science</i> , 2009, 322, 49-55.	1.4	5
28	Dual, orthogonal, backlit pinhole radiography in OMEGA experiments. <i>Review of Scientific Instruments</i> , 2006, 77, 10E327.	1.3	37