

Elizabeth C Merritt

List of Publications by Year in descending order

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36
papers

625
citations

623734

14
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24
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44
all docs

44
docs citations

44
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Design considerations for indirectly driven double shell capsules. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	65
2	Experimental characterization of railgun-driven supersonic plasma jets motivated by high energy density physics applications. <i>Physics of Plasmas</i> , 2012, 19, 123514.	1.9	48
3	The Shock/Shear platform for planar radiation-hydrodynamics experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	45
4	Experimental Characterization of the Stagnation Layer between Two Obliquely Merging Supersonic Plasma Jets. <i>Physical Review Letters</i> , 2013, 111, 085003.	7.8	43
5	Experimental evidence for collisional shock formation via two obliquely merging supersonic plasma jets. <i>Physics of Plasmas</i> , 2014, 21, 055703.	1.9	39
6	Development of a Big Area BackLighter for high energy density experiments. <i>Review of Scientific Instruments</i> , 2014, 85, 093501.	1.3	33
7	Experimental study of energy transfer in double shell implosions. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	32
8	Enhanced energy coupling for indirectly driven inertial confinement fusion. <i>Nature Physics</i> , 2019, 15, 138-141.	16.7	32
9	Late-Time Mixing Sensitivity to Initial Broadband Surface Roughness in High-Energy-Density Shear Layers. <i>Physical Review Letters</i> , 2016, 117, 225001.	7.8	25
10	Late-time mixing and turbulent behavior in high-energy-density shear experiments at high Atwood numbers. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	22
11	Laboratory plasma physics experiments using merging supersonic plasma jets. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	20
12	Modifying mixing and instability growth through the adjustment of initial conditions in a high-energy-density counter-propagating shear experiment on OMEGA. <i>Physics of Plasmas</i> , 2015, 22, 062306.	1.9	19
13	Multi-chord fiber-coupled interferometer with a long coherence length laser. <i>Review of Scientific Instruments</i> , 2012, 83, 033506.	1.3	16
14	Shock-driven discrete vortex evolution on a high-Atwood number oblique interface. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	16
15	Multi-chord fiber-coupled interferometry of supersonic plasma jets (invited). <i>Review of Scientific Instruments</i> , 2012, 83, 10D523.	1.3	14
16	Observation and analysis of emergent coherent structures in a high-energy-density shock-driven planar mixing layer experiment. <i>Physical Review E</i> , 2016, 94, 023101.	2.1	14
17	Smooth-particle applied mechanics: Conservation of angular momentum with tensile stability and velocity averaging. <i>Physical Review E</i> , 2004, 69, 016702.	2.1	12
18	Development of Indirectly Driven Shock Tube Targets for Counter-Propagating Shear-Driven Kelvin-Helmholtz Experiments on the National Ignition Facility. <i>Fusion Science and Technology</i> , 2016, 70, 316-323.	1.1	12

#	ARTICLE	IF	CITATIONS
19	Evolution of surface structure in laser-preheated perturbed materials. <i>Physical Review E</i> , 2017, 95, 023202.	2.1	12
20	Progress Toward Fabrication of Machined Metal Shells for the First Double-Shell Implosions at the National Ignition Facility. <i>Fusion Science and Technology</i> , 2018, 73, 344-353.	1.1	12
21	Computational study of instability and fill tube mitigation strategies for double shell implosions. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	12
22	Shock-driven hydrodynamic instability of a sinusoidally perturbed, high-Atwood number, oblique interface. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	11
23	Diagnostics for the Plasma Liner Experiment. <i>Review of Scientific Instruments</i> , 2010, 81, 10E115.	1.3	8
24	Experimental validation of thermodynamic mixture rules at extreme pressures and densities. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	8
25	Experimental measurement of two copropagating shocks interacting with an unstable interface. <i>Physical Review E</i> , 2020, 102, 043212.	2.1	8
26	Mechanisms of shape transfer and preheating in indirect-drive double shell collisions. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	7
27	The Laser-Driven X-ray Big Area Backlighter (BABL): Design, Optimization, and Evolution. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012062.	0.4	6
28	Increasing shot and data collection rates of the Shock/Shear experiment at the National Ignition Facility. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012059.	0.4	5
29	Developing one-dimensional implosions for inertial confinement fusion science. <i>High Power Laser Science and Engineering</i> , 2016, 4, .	4.6	5
30	Symmetry tuning and high energy coupling for an Al capsule in a Au rugby hohlraum on NIF. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	5
31	Neural network for 3D inertial confinement fusion shell reconstruction from single radiographs. <i>Review of Scientific Instruments</i> , 2021, 92, 033547.	1.3	5
32	Studying the Richtmyer-Meshkov instability in convergent geometry under high energy density conditions using the Decel platform. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	4
33	Wavelet analysis methods for radiography of multidimensional growth of planar mixing layers. <i>Review of Scientific Instruments</i> , 2016, 87, 075103.	1.3	3
34	Three-dimensional signatures of self-similarity in a high-energy-density plasma shear-driven mixing layer. <i>Physics of Plasmas</i> , 2020, 27, 032701.	1.9	3
35	Improved imaging using Mn He- α x rays at OMEGA EP. <i>Review of Scientific Instruments</i> , 2021, 92, 093508.	1.3	2
36	Toward imploding spherical plasma liner formation via an array of merging supersonic plasma jets. , 2013, , .		0