

Feng Wang

List of Publications by Year in descending order

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35
papers

422
citations

840776

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752698

20
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35
all docs

35
docs citations

35
times ranked

366
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in octahedral spherical hohlraum study. Matter and Radiation at Extremes, 2016, 1, 8-27.	3.9	106
2	Experimental progress of inertial confinement fusion based at the ShenGuang-III laser facility in China. Nuclear Fusion, 2019, 59, 032006.	3.5	40
3	Studies of laser-plasma interaction physics with low-density targets for direct-drive inertial confinement fusion on the Shenguang III prototype. Matter and Radiation at Extremes, 2021, 6, .	3.9	31
4	Recent research progress of laser plasma interactions in Shenguang laser facilities. Matter and Radiation at Extremes, 2019, 4, .	3.9	28
5	Analysis of stimulated Raman backscatter and stimulated Brillouin backscatter in experiments performed on SG-III prototype facility with a spectral analysis code. Physics of Plasmas, 2014, 21, .	1.9	27
6	Recent diagnostic developments at the 100 kJ-level laser facility in China. Matter and Radiation at Extremes, 2020, 5, .	3.9	25
7	First Inertial Confinement Fusion Implosion Experiment in Octahedral Spherical Hohlraum. Physical Review Letters, 2021, 127, 245001.	7.8	16
8	Experimental demonstration of laser to x-ray conversion enhancements with low density gold targets. Applied Physics Letters, 2016, 108, .	3.3	15
9	Efficient soft x-ray sources from laser-irradiated gold foam targets with well-controlled impurities. Nuclear Fusion, 2018, 58, 016038.	3.5	14
10	A line-imaging velocity interferometer technique for shock diagnostics without x-ray preheat limitation. Review of Scientific Instruments, 2011, 82, 103108.	1.3	12
11	First integrated implosion experiments on the SG-III laser facility. Plasma Physics and Controlled Fusion, 2018, 60, 085017.	2.1	12
12	Analysis of electromagnetic pulses generation from laser coupling with polymer targets: Effect of metal content in target. Matter and Radiation at Extremes, 2020, 5, .	3.9	12
13	Laser-direct-driven quasi-isentropic experiments on aluminum. Physics of Plasmas, 2014, 21, .	1.9	10
14	Design of Neutron Imaging Aperture for Inertial Confinement Fusion in Laser Fusion Research Center. Journal of Instrumentation, 2019, 14, C11007-C11007.	1.2	9
15	Enhancing electromagnetic radiations by a pre-ablation laser during laser interaction with solid target. Physics of Plasmas, 2020, 27, .	1.9	9
16	Study of M-band X-ray preheating effect on shock propagation via streaked optical pyrometer system at SG-III prototype lasers. Physics of Plasmas, 2019, 26, .	1.9	7
17	Investigation on laser plasma instability of the outer ring beams on SGIII laser facility. AIP Advances, 2019, 9, .	1.3	6
18	Analytical model for ramp compression. Physica B: Condensed Matter, 2016, 495, 64-69.	2.7	5

#	ARTICLE	IF	CITATIONS
19	Investigation of the yield degradation of the first shaped-pulse implosion experiments on the SG-III laser facility. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	5
20	Development of a quasi-coaxial dual-energy flat spectral response X-ray imaging instrument for measuring hotspot electron temperature. <i>Optics Express</i> , 2022, 30, 8777.	3.4	5
21	Note: New method for high-space-resolving hotspot electron temperature measurements on Shenguang-III prototype. <i>Review of Scientific Instruments</i> , 2018, 89, 096108.	1.3	4
22	Single-shot pump-probe technique using mirror array. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	4
23	Quantitative observation of monochromatic X-rays emitted from implosion hotspot in high spatial resolution in inertial confinement fusion. <i>Scientific Reports</i> , 2021, 11, 14492.	3.3	4
24	Experimental and simulation studies on radiative properties of uranium planar target coated with an ultrathin aluminum layer. <i>Nuclear Fusion</i> , 2018, 58, 026020.	3.5	3
25	The neutron imaging system for inertial confinement fusion at the 100 kilo-Joule laser facility. <i>Journal of Instrumentation</i> , 2022, 17, C03026.	1.2	3
26	A Full Aperture Backscattering Light Diagnostic System Installed on the Shenguang-III Prototype Laser Facility. <i>Plasma Science and Technology</i> , 2014, 16, 567-570.	1.5	2
27	Design of the scintillator imaging lens for the neutron imaging system at the 100 kJ-level laser facility. <i>Review of Scientific Instruments</i> , 2022, 93, 043303.	1.3	2
28	A simple method to prevent hard X-ray-induced preheating effects inside the cone tip in indirect-drive fast ignition implosions. <i>Physics of Plasmas</i> , 2016, 23, 062703.	1.9	1
29	A Novel Recovery Method of Soft X-ray Spectrum Unfolding Based on Compressive Sensing. <i>Sensors</i> , 2018, 18, 3725.	3.8	1
30	The effect of scattered neutrons on the ion temperature measurement with different line-of-sight on the SGIII laser facility. <i>AIP Advances</i> , 2019, 9, 015124.	1.3	1
31	Combined optical reflectivity measurement and ab initio simulation of expanded gold fluid across the metalâ€“nonmetal transition regime. <i>AIP Advances</i> , 2020, 10, 095008.	1.3	1
32	Optimization of x-ray emissions with Gd + Au + Gd sandwich design. <i>AIP Advances</i> , 2021, 11, 025005.	1.3	1
33	Implementation of a large-aperture Thomson scattering system for diagnosing driven ion acoustic waves on Shenguang-III prototype laser facility. <i>Journal of Instrumentation</i> , 2022, 17, P05017.	1.2	1
34	X-ray preheat shield in laser direct-drive ramp compression experiments. <i>AIP Advances</i> , 2019, 9, 035007.	1.3	0
35	Solutions of several theory and technique problems in high-space-resolving hotspot electron temperature diagnosis techniques in inertial confinement fusion. <i>AIP Advances</i> , 2022, 12, 075007.	1.3	0