

Ke Lan

List of Publications by Year in descending order

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papers

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430874

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all docs

55
docs citations

55
times ranked

361
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	High flux symmetry of the spherical hohlraum with octahedral 6LEHs at the hohlraum-to-capsule radius ratio of 5.14. Physics of Plasmas, 2014, 21, 010704.	1.9	67
3	Octahedral spherical hohlraum and its laser arrangement for inertial fusion. Physics of Plasmas, 2014, 21, .	1.9	56
4	Novel spherical hohlraum with cylindrical laser entrance holes and shields. Physics of Plasmas, 2014, 21, .	1.9	43
5	First demonstration of improving laser propagation inside the spherical hohlraums by using the cylindrical laser entrance hole. Matter and Radiation at Extremes, 2016, 1, 2-7.	3.9	39
6	First Investigation on the Radiation Field of the Spherical Hohlraum. Physical Review Letters, 2016, 117, 025002.	7.8	35
7	Determination of the Hohlraum M -band Fraction by a Shock-Wave Technique on the SGIII-Prototype Laser Facility. Physical Review Letters, 2012, 109, 145004.	7.8	33
8	A novel method for determining the M-band fraction in laser-driven gold hohlraums. Physics of Plasmas, 2011, 18, .	1.9	28
9	Experimental demonstration of low laser-plasma instabilities in gas-filled spherical hohlraums at laser injection angle designed for ignition target. Physical Review E, 2017, 95, 031202.	2.1	28
10	Simulation study of <i>Hohlraum</i> experiments on SGIII-prototype laser facility. Physics of Plasmas, 2010, 17, .	1.9	26
11	Theoretical study on discharge-pumped soft x-ray laser in Ne-like Ar. Physics of Plasmas, 1999, 6, 4343-4348.	1.9	25
12	An initial design of hohlraum driven by a shaped laser pulse. Laser and Particle Beams, 2010, 28, 421-427.	1.0	23
13	Initial study and design on ignition ellipraum. Laser and Particle Beams, 2012, 30, 175-182.	1.0	23
14	Neutron Generation by Laser-Driven Spherically Convergent Plasma Fusion. Physical Review Letters, 2017, 118, 165001.	7.8	23
15	Study on Au+Au sandwich Hohlraum wall for ignition targets. Laser and Particle Beams, 2010, 28, 75-81.	1.0	22
16	Insensitivity of the octahedral spherical hohlraum to power imbalance, pointing accuracy, and assemblage accuracy. Physics of Plasmas, 2014, 21, .	1.9	22
17	Photopumping of XUV lasers by XFEL radiation. Laser and Particle Beams, 2004, 22, 261-266.	1.0	19
18	Direct measurement of x-ray flux for a pre-specified highly-resolved region in hohlraum. Optics Express, 2015, 23, A1072.	3.4	19

#	ARTICLE	IF	CITATIONS
19	First experimental comparisons of laser-plasma interactions between spherical and cylindrical hohlraums at SGIII laser facility. <i>Matter and Radiation at Extremes</i> , 2017, 2, 77-86.	3.9	18
20	First Octahedral Spherical Hohlraum Energetics Experiment at the SGIII Laser Facility. <i>Physical Review Letters</i> , 2018, 120, 165001.	7.8	16
21	First Inertial Confinement Fusion Implosion Experiment in Octahedral Spherical Hohlraum. <i>Physical Review Letters</i> , 2021, 127, 245001.	7.8	16
22	Novel Target Designs to Mitigate Hydrodynamic Instabilities Growth in Inertial Confinement Fusion. <i>Physical Review Letters</i> , 2021, 126, 185001.	7.8	15
23	Radiation-temperature shock scaling of 1 ns laser-driven hohlraums. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	14
24	Radiation flux study of spherical hohlraums at the SGIII prototype facility. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	14
25	Non-equilibrium between ions and electrons inside hot spots from National Ignition Facility experiments. <i>Matter and Radiation at Extremes</i> , 2017, 2, 3-8.	3.9	14
26	P2 asymmetry of Au's M-band flux and its smoothing effect due to high-Z ablator dopants. <i>Matter and Radiation at Extremes</i> , 2017, 2, 69-76.	3.9	14
27	Study on two-dimensional transfer of radiative heating wave. <i>Laser and Particle Beams</i> , 2005, 23, .	1.0	13
28	Analysis of hohlraum energetics of the SG series and the NIF experiments with energy balance model. <i>Matter and Radiation at Extremes</i> , 2017, 2, 22-27.	3.9	13
29	Electron heat conduction under non-Maxwellian distribution in hohlraum simulation. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	11
30	Two-photon group radiation transfer study in low-density foam cylinder. <i>Laser and Particle Beams</i> , 2006, 24, 495-501.	1.0	10
31	The radiation temperature and M-band fraction inside hohlraum on the SGIII-prototype laser facility. <i>Physics of Plasmas</i> , 2014, 21, 022704.	1.9	10
32	Uranium hohlraum with an ultrathin uranium nitride coating layer for low hard x-ray emission and high radiation temperature. <i>New Journal of Physics</i> , 2015, 17, 113004.	2.9	10
33	A method to determine the flux limiter via the motion of the M-band emission region in Au hohlraum. <i>Laser and Particle Beams</i> , 2012, 30, 387-396.	1.0	9
34	Comparison of the laser spot movement inside cylindrical and spherical hohlraums. <i>Physics of Plasmas</i> , 2017, 24, 072711.	1.9	9
35	Design of octahedral spherical hohlraum for CH Rev5 ignition capsule. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	9
36	Foam Au driven by 4 ns ignition laser pulse for inertial confinement fusion. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	8

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37	Study on size of laser entrance hole shield for ignition octahedral spherical hohlraums. Laser and Particle Beams, 2015, 33, 731-739.	1.0	7
38	Study on laser-irradiated Au plasmas by detailed configuration accounting atomic physics. Physics of Plasmas, 2017, 24, 102706.	1.9	6
39	High coupling efficiency of foam spherical hohlraum driven by 2 μm laser light. Physics of Plasmas, 2018, 25, .	1.9	6
40	Octahedral spherical Hohlraum for Rev. 6 NIF beryllium capsule. Physics of Plasmas, 2018, 25, 102701.	1.9	6
41	Study of high-Z-coated ignition target by detailed configuration accounting atomic physics for direct-drive inertial confinement fusion. Plasma Physics and Controlled Fusion, 2019, 61, 014006.	2.1	6
42	Effects of the P2 M-band flux asymmetry of laser-driven gold Hohlraums on the implosion of ICF ignition capsule. Physics of Plasmas, 2016, 23, 072705.	1.9	5
43	First exploration of radiation temperatures of the laser spot, re-emitting wall and entire hohlraum drive source. Scientific Reports, 2019, 9, 5050.	3.3	5
44	Study on expanding recombination plasma. Physics of Plasmas, 1999, 6, 1631-1635.	1.9	4
45	Calibration of the linear response range of x-ray imaging plates and their reader based on image grayscale values. Review of Scientific Instruments, 2017, 88, 083115.	1.3	4
46	Quantitative observation of monochromatic X-rays emitted from implosion hotspot in high spatial resolution in inertial confinement fusion. Scientific Reports, 2021, 11, 14492.	3.3	4
47	Experimental and simulation studies on radiative properties of uranium planar target coated with an ultrathin aluminum layer. Nuclear Fusion, 2018, 58, 026020.	3.5	3
48	Application of the space-resolving flux detector for radiation measurements from an octahedral-aperture spherical hohlraum. Review of Scientific Instruments, 2018, 89, 063502.	1.3	3
49	New two-dimensional space-resolving flux detection technique for measurement of hohlraum inner radiation in Shenguang-III prototype. Review of Scientific Instruments, 2015, 86, 103112.	1.3	2
50	Escape of β -particle from hot-spot for inertial confinement fusion. Physics of Plasmas, 2019, 26, 122701.	1.9	2
51	Editorial for special issue on laser fusion. Matter and Radiation at Extremes, 2017, 2, 1-2.	3.9	1
52	Numerical Simulation on Laser Fusion in China. , 2009, , .		0
53	First measurement of plasma stagnation radiation in a hohlraum in the Shenguang-III prototype. Plasma Physics and Controlled Fusion, 2017, 59, 085006.	2.1	0
54	Matter and radiation at extremes: Prospects and impacts. Matter and Radiation at Extremes, 2021, 6, 013002.	3.9	0

#	ARTICLE	IF	CITATIONS
55	Some recent studies on hohlraum physics. EPJ Web of Conferences, 2013, 59, 02003.	0.3	0