

Ke Lan

List of Publications by Year in descending order

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all docs

55
docs citations

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times ranked

361
citing authors

#	ARTICLE	IF	CITATIONS
1	Matter and radiation at extremes: Prospects and impacts. Matter and Radiation at Extremes, 2021, 6, 013002.	3.9	0
2	Novel Target Designs to Mitigate Hydrodynamic Instabilities Growth in Inertial Confinement Fusion. Physical Review Letters, 2021, 126, 185001.	7.8	15
3	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
4	First Inertial Confinement Fusion Implosion Experiment in Octahedral Spherical Hohlräum. Physical Review Letters, 2021, 127, 245001.	7.8	16
5	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
6	Escape of α -particle from hot-spot for inertial confinement fusion. Physics of Plasmas, 2019, 26, 122701.	1.9	2
7	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
8	First Octahedral Spherical Hohlräum Energetics Experiment at the SGIII Laser Facility. Physical Review Letters, 2018, 120, 165001.	7.8	16
9	High coupling efficiency of foam spherical hohlraum driven by 2ω laser light. Physics of Plasmas, 2018, 25, .	1.9	6
10	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
11	Octahedral spherical Hohlräum for Rev. 6 NIF beryllium capsule. Physics of Plasmas, 2018, 25, 102701.	1.9	6
12	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
13	Analysis of hohlraum energetics of the SG series and the NIF experiments with energy balance model. Matter and Radiation at Extremes, 2017, 2, 22-27.	3.9	13
14	Non-equilibrium between ions and electrons inside hot spots from National Ignition Facility experiments. Matter and Radiation at Extremes, 2017, 2, 3-8.	3.9	14
15	P2 asymmetry of Au's M-band flux and its smoothing effect due to high-Z ablator dopants. Matter and Radiation at Extremes, 2017, 2, 69-76.	3.9	14
16	Editorial for special issue on laser fusion. Matter and Radiation at Extremes, 2017, 2, 1-2.	3.9	1
17	Foam Au driven by 4ω ignition laser pulse for inertial confinement fusion. Physics of Plasmas, 2017, 24, .	1.9	8
18	First experimental comparisons of laser-plasma interactions between spherical and cylindrical hohlraums at SGIII laser facility. Matter and Radiation at Extremes, 2017, 2, 77-86.	3.9	18

#	ARTICLE	IF	CITATIONS
19	Experimental demonstration of low laser-plasma instabilities in gas-filled spherical hohlraums at laser injection angle designed for ignition target. <i>Physical Review E</i> , 2017, 95, 031202.	2.1	28
20	Calibration of the linear response range of x-ray imaging plates and their reader based on image grayscale values. <i>Review of Scientific Instruments</i> , 2017, 88, 083115.	1.3	4
21	Comparison of the laser spot movement inside cylindrical and spherical hohlraums. <i>Physics of Plasmas</i> , 2017, 24, 072711.	1.9	9
22	Design of octahedral spherical hohlraum for CH Rev5 ignition capsule. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	9
23	First measurement of plasma stagnation radiation in a hohlraum in the Shenguang-III prototype. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 085006.	2.1	0
24	Study on laser-irradiated Au plasmas by detailed configuration accounting atomic physics. <i>Physics of Plasmas</i> , 2017, 24, 102706.	1.9	6
25	Neutron Generation by Laser-Driven Spherically Convergent Plasma Fusion. <i>Physical Review Letters</i> , 2017, 118, 165001.	7.8	23
26	Effects of the P2 M-band flux asymmetry of laser-driven gold Hohlraums on the implosion of ICF ignition capsule. <i>Physics of Plasmas</i> , 2016, 23, 072705.	1.9	5
27	Radiation flux study of spherical hohlraums at the SGIII prototype facility. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	14
28	First Investigation on the Radiation Field of the Spherical Hohlraum. <i>Physical Review Letters</i> , 2016, 117, 025002.	7.8	35
29	First demonstration of improving laser propagation inside the spherical hohlraums by using the cylindrical laser entrance hole. <i>Matter and Radiation at Extremes</i> , 2016, 1, 2-7.	3.9	39
30	Progress in octahedral spherical hohlraum study. <i>Matter and Radiation at Extremes</i> , 2016, 1, 8-27.	3.9	106
31	Study on size of laser entrance hole shield for ignition octahedral spherical hohlraums. <i>Laser and Particle Beams</i> , 2015, 33, 731-739.	1.0	7
32	New two-dimensional space-resolving flux detection technique for measurement of hohlraum inner radiation in Shenguang-III prototype. <i>Review of Scientific Instruments</i> , 2015, 86, 103112.	1.3	2
33	Direct measurement of x-ray flux for a pre-specified highly-resolved region in hohlraum. <i>Optics Express</i> , 2015, 23, A1072.	3.4	19
34	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
35	Insensitivity of the octahedral spherical hohlraum to power imbalance, pointing accuracy, and assemblage accuracy. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	22
36	High flux symmetry of the spherical hohlraum with octahedral 6LEHs at the hohlraum-to-capsule radius ratio of 5.14. <i>Physics of Plasmas</i> , 2014, 21, 010704.	1.9	67

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37	Octahedral spherical hohlraum and its laser arrangement for inertial fusion. Physics of Plasmas, 2014, 21, .	1.9	56
38	The radiation temperature and M -band fraction inside hohlraum on the SGIII-prototype laser facility. Physics of Plasmas, 2014, 21, 022704.	1.9	10
39	Novel spherical hohlraum with cylindrical laser entrance holes and shields. Physics of Plasmas, 2014, 21, .	1.9	43
40	Some recent studies on hohlraum physics. EPJ Web of Conferences, 2013, 59, 02003.	0.3	0
41	Electron heat conduction under non-Maxwellian distribution in hohlraum simulation. Physics of Plasmas, 2012, 19, .	1.9	11
42	A method to determine the flux limiter via the motion of the M-band emission region in Au hohlraum. Laser and Particle Beams, 2012, 30, 387-396.	1.0	9
43	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
44	Initial study and design on ignition ellipraum. Laser and Particle Beams, 2012, 30, 175-182.	1.0	23
45	A novel method for determining the M-band fraction in laser-driven gold hohlraums. Physics of Plasmas, 2011, 18, .	1.9	28
46	Radiation-temperature shock scaling of 1 ns laser-driven hohlraums. Physics of Plasmas, 2010, 17, .	1.9	14
47	Study on Au+Au sandwich Hohlraum wall for ignition targets. Laser and Particle Beams, 2010, 28, 75-81.	1.0	22
48	An initial design of hohlraum driven by a shaped laser pulse. Laser and Particle Beams, 2010, 28, 421-427.	1.0	23
49	Simulation study of $Hohlraum$ experiments on SGIII-prototype laser facility. Physics of Plasmas, 2010, 17, .	1.9	26
50	Numerical Simulation on Laser Fusion in China. , 2009, , .		0
51	Two-photon group radiation transfer study in low-density foam cylinder. Laser and Particle Beams, 2006, 24, 495-501.	1.0	10
52	Study on two-dimensional transfer of radiative heating wave. Laser and Particle Beams, 2005, 23, .	1.0	13
53	Photopumping of XUV lasers by XFEL radiation. Laser and Particle Beams, 2004, 22, 261-266.	1.0	19
54	Theoretical study on discharge-pumped soft x-ray laser in Ne-like Ar. Physics of Plasmas, 1999, 6, 4343-4348.	1.9	25

#	ARTICLE	IF	CITATIONS
55	Study on expanding recombination plasma. Physics of Plasmas, 1999, 6, 1631-1635.	1.9	4