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List of Publications by Year in descending order

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63
papers

1,969
citations

186265

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63
all docs

63
docs citations

63
times ranked

1194
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectrometry of charged particles from inertial-confinement-fusion plasmas. Review of Scientific Instruments, 2003, 74, 975-995.	1.3	214
2	Characterizing counter-streaming interpenetrating plasmas relevant to astrophysical collisionless shocks. Physics of Plasmas, 2012, 19, .	1.9	101
3	Core performance and mix in direct-drive spherical implosions with high uniformity. Physics of Plasmas, 2001, 8, 2251-2256.	1.9	84
4	Development of Compton radiography of inertial confinement fusion implosions. Physics of Plasmas, 2011, 18, .	1.9	82
5	Soft x-ray power diagnostic improvements at the Omega Laser Facility. Review of Scientific Instruments, 2006, 77, 10E518.	1.3	76
6	Increasing Hydrodynamic Efficiency by Reducing Cross-Beam Energy Transfer in Direct-Drive-Implosion Experiments. Physical Review Letters, 2012, 108, 125003.	7.8	67
7	Charged-particle acceleration and energy loss in laser-produced plasmas. Physics of Plasmas, 2000, 7, 5106-5117.	1.9	59
8	D ³ He proton spectra for diagnosing shell IR and fuel Ti of imploded capsules at OMEGA. Physics of Plasmas, 2000, 7, 2578-2584.	1.9	54
9	First results from cryogenic target implosions on OMEGA. Physics of Plasmas, 2002, 9, 2195-2201.	1.9	49
10	Using secondary-proton spectra to study the compression and symmetry of deuterium-filled capsules at OMEGA. Physics of Plasmas, 2002, 9, 2725-2737.	1.9	48
11	Inference of mix in direct-drive implosions on OMEGA. Physics of Plasmas, 2002, 9, 2208-2213.	1.9	48
12	OMEGA ICF experiments and preparation for direct drive ignition on NIF. Nuclear Fusion, 2001, 41, 1413-1422.	3.5	45
13	Experimental Demonstration of X-Ray Drive Enhancement with Rugby-Shaped Hohlräume. Physical Review Letters, 2010, 104, 035004.	7.8	44
14	Suppression of Stimulated Brillouin Scattering by Increased Landau Damping in Multiple-Ion-Species Hohlraum Plasmas. Physical Review Letters, 2008, 100, 105001.	7.8	43
15	Demonstration of the Density Dependence of X-Ray Flux in a Laser-Driven Hohlraum. Physical Review Letters, 2008, 101, 035001.	7.8	43
16	Direct-drive cryogenic target implosion performance on OMEGA. Physics of Plasmas, 2004, 11, 2790-2797.	1.9	39
17	Implementation of a high energy 41% probe beam on the Omega laser. Review of Scientific Instruments, 2004, 75, 3906-3908.	1.3	38
18	Uncertainty analysis technique for OMEGA Dante measurements. Review of Scientific Instruments, 2010, 81, 10E505.	1.3	37

#	ARTICLE	IF	CITATIONS
19	Efficient laser-induced 6-8 keV x-ray production from iron oxide aerogel and foil-lined cavity targets. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	37
20	A reflective optical transport system for ultraviolet Thomson scattering from electron plasma waves on OMEGA. <i>Review of Scientific Instruments</i> , 2012, 83, 10E349.	1.3	36
21	Shell trajectory measurements from direct-drive implosion experiments. <i>Review of Scientific Instruments</i> , 2012, 83, 10E530.	1.3	36
22	Neutron temporal diagnostic for high-yield deuterium-tritium cryogenic implosions on OMEGA. <i>Review of Scientific Instruments</i> , 2016, 87, 053501.	1.3	33
23	Direct-drive cryogenic target implosion performance on OMEGA. <i>Physics of Plasmas</i> , 2003, 10, 1937-1945.	1.9	32
24	Sub-nanosecond single line-of-sight (SLOS) x-ray imagers (invited). <i>Review of Scientific Instruments</i> , 2018, 89, 10G123.	1.3	32
25	Laser-plasma interactions in direct-drive ignition plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124016.	2.1	31
26	Ten-inch manipulator-based neutron temporal diagnostic for cryogenic experiments on OMEGA. <i>Review of Scientific Instruments</i> , 2003, 74, 1713-1716.	1.3	30
27	Refraction-enhanced x-ray radiography for density profile measurements at CH/Be interface. <i>Journal of Instrumentation</i> , 2011, 6, P09004-P09004.	1.2	30
28	Experimental demonstration of early time, hohlraum radiation symmetry tuning for indirect drive ignition experiments. <i>Physics of Plasmas</i> , 2011, 18, 092703.	1.9	30
29	Implementation of imaging Thomson scattering on the Omega Laser. <i>Review of Scientific Instruments</i> , 2006, 77, 10E520.	1.3	29
30	Observations of fast protons above 1 MeV produced in direct-drive laser-fusion experiments. <i>Physics of Plasmas</i> , 2001, 8, 606-610.	1.9	28
31	Green Frequency-Doubled Laser-Beam Propagation in High-Temperature Hohlraum Plasmas. <i>Physical Review Letters</i> , 2008, 100, 045002.	7.8	27
32	Intensity Limits for Propagation of 0.527 μm Laser Beams through Large-Scale-Length Plasmas for Inertial Confinement Fusion. <i>Physical Review Letters</i> , 2005, 94, 085005.	7.8	26
33	Energetics of multiple-ion species hohlraum plasmas. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	26
34	The single-line-of-sight, time-resolved x-ray imager diagnostic on OMEGA. <i>Review of Scientific Instruments</i> , 2018, 89, 10G117.	1.3	26
35	Hohlraum energetics and implosion symmetry with elliptical phase plates using a multi-cone beam geometry on OMEGA. <i>Journal of Physics: Conference Series</i> , 2008, 112, 022077.	0.4	22
36	Measurements of the ablation-front trajectory and low-mode nonuniformity in direct-drive implosions using x-ray self-emission shadowgraphy. <i>High Power Laser Science and Engineering</i> , 2015, 3, .	4.6	22

#	ARTICLE	IF	CITATIONS
37	A Particle X-ray Temporal Diagnostic (PXTD) for studies of kinetic, multi-ion effects, and ion-electron equilibration rates in Inertial Confinement Fusion plasmas at OMEGA (invited). Review of Scientific Instruments, 2016, 87, 11D701.	1.3	22
38	Experimental study of neutron induced background noise on gated x-ray framing cameras. Review of Scientific Instruments, 2010, 81, 10E515.	1.3	21
39	Areal density evolution of isolated surface perturbations at the onset of x-ray ablation Richtmyer-Meshkov growth. Physics of Plasmas, 2011, 18, .	1.9	21
40	Monochromatic backlighting of direct-drive cryogenic DT implosions on OMEGA. Physics of Plasmas, 2017, 24, .	1.9	21
41	High performance capsule implosions on the OMEGA Laser facility with rugby hohlraums. Physics of Plasmas, 2010, 17, 056313.	1.9	20
42	NIF-scale re-emission sphere measurements of early-time $T_r=100\text{eV}$ hohlraum symmetry (invited). Review of Scientific Instruments, 2008, 79, 10E903.	1.3	17
43	Measurements of hot-electron temperature in laser-irradiated plasmas. Physics of Plasmas, 2016, 23, .	1.9	15
44	3% transmitted beam diagnostic at the Omega Laser Facility. Review of Scientific Instruments, 2006, 77, 10E507.	1.3	13
45	Source geometric considerations for OMEGA Dante measurements. Review of Scientific Instruments, 2012, 83, 10E117.	1.3	12
46	Implementation of a Talbot-Lau x-ray deflectometer diagnostic platform for the OMEGA EP laser. Review of Scientific Instruments, 2020, 91, 023511.	1.3	12
47	Ultraviolet Thomson scattering measurements of the electron and ion features with an energetic 263 nm probe. Journal of Instrumentation, 2011, 6, P08004-P08004.	1.2	11
48	Demonstrated high performance of gas-filled rugby-shaped hohlraums on Omega. Physics of Plasmas, 2014, 21, 074504.	1.9	11
49	The National Direct-Drive Inertial Confinement Fusion Program. Nuclear Fusion, 2019, 59, 032007.	3.5	10
50	Enhanced laser-energy coupling with small-spot distributed phase plates (SG5-650) in OMEGA DT cryogenic target implosions. Physics of Plasmas, 2022, 29, .	1.9	9
51	A reflective image-rotating periscope for spatially resolved Thomson-scattering experiments on OMEGA. Journal of Instrumentation, 2013, 8, C12009-C12009.	1.2	8
52	Causes of fuel- ablator mix inferred from modeling of monochromatic time-gated radiography of OMEGA cryogenic implosions. Physics of Plasmas, 2022, 29, .	1.9	8
53	Time-resolved soft x-ray imaging diagnostic for use at the NIF and OMEGA lasers. Review of Scientific Instruments, 2006, 77, 10E321.	1.3	5
54	Inferences of mix in direct-drive spherical implosions with high uniformity. Plasma Physics and Controlled Fusion, 2001, 43, A277-A286.	2.1	4

#	ARTICLE	IF	CITATIONS
55	Transmitted laser beam diagnostic at the Omega laser facility. Review of Scientific Instruments, 2004, 75, 4171-4173.	1.3	4
56	Development of a thermal X-radiation source using â€œhotâ€•hohlraums. High Energy Density Physics, 2007, 3, 256-262.	1.5	4
57	Simulation and analysis of time-gated monochromatic radiographs of cryogenic implosions on OMEGA. High Energy Density Physics, 2017, 23, 167-177.	1.5	4
58	Shielding a streak camera from hard x rays. Review of Scientific Instruments, 2004, 75, 4040-4041.	1.3	3
59	Experimental Evidence of Harnessed Expansion of a High- Z Plasma Using the Hollow Wall Design for Indirect Drive Inertial Confinement Fusion. Physical Review Letters, 2020, 125, 255002.	7.8	3
60	Inferred UV fluence focal-spot profiles from soft x-ray pinhole-camera measurements on OMEGA. Review of Scientific Instruments, 2020, 91, 023505.	1.3	3
61	Initial experimental demonstration of the principles of a xenon gas shield designed to protect optical components from soft x-ray induced opacity (blinking) in high energy density experiments. Physics of Plasmas, 2017, 24, 032705.	1.9	2
62	Converting existing optical detectors into fast x-ray detectors. Review of Scientific Instruments, 2021, 92, 073507.	1.3	2
63	Core Performance and Mix in Direct-Drive Spherical Implosions on Omega. , 2002, , 19-26.		0