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List of Publications by Year
in descending order

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63	1,969	186265 28	254184 43
papers	citations	h-index	g-index

63	63	63	1194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Causes of fuelâ€“ablator mix inferred from modeling of monochromatic time-gated radiography of OMEGA cryogenic implosions. Physics of Plasmas, 2022, 29, .	1.9	8
2	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
3	Converting existing optical detectors into fast x-ray detectors. Review of Scientific Instruments, 2021, 92, 073507.	1.3	2
4	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
5	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
6	Implementation of a Talbotâ€“Lau x-ray deflectometer diagnostic platform for the OMEGA EP laser. Review of Scientific Instruments, 2020, 91, 023511.	1.3	12
7	The National Direct-Drive Inertial Confinement Fusion Program. Nuclear Fusion, 2019, 59, 032007.	3.5	10
8	Sub-nanosecond single line-of-sight (SLOS) x-ray imagers (invited). Review of Scientific Instruments, 2018, 89, 10G123.	1.3	32
9	The single-line-of-sight, time-resolved x-ray imager diagnostic on OMEGA. Review of Scientific Instruments, 2018, 89, 10G117.	1.3	26
10	Monochromatic backlighting of direct-drive cryogenic DT implosions on OMEGA. Physics of Plasmas, 2017, 24, .	1.9	21
11	Initial experimental demonstration of the principles of a xenon gas shield designed to protect optical components from soft x-ray induced opacity (blanking) in high energy density experiments. Physics of Plasmas, 2017, 24, 032705.	1.9	2
12	Simulation and analysis of time-gated monochromatic radiographs of cryogenic implosions on OMEGA. High Energy Density Physics, 2017, 23, 167-177.	1.5	4
13	Neutron temporal diagnostic for high-yield deuteriumâ€“tritium cryogenic implosions on OMEGA. Review of Scientific Instruments, 2016, 87, 053501.	1.3	33
14	Measurements of hot-electron temperature in laser-irradiated plasmas. Physics of Plasmas, 2016, 23, .	1.9	15
15	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
16	Measurements of the ablation-front trajectory and low-mode nonuniformity in direct-drive implosions using x-ray self-emission shadowgraphy. High Power Laser Science and Engineering, 2015, 3, .	4.6	22
17	Demonstrated high performance of gas-filled rugby-shaped hohlraums on Omega. Physics of Plasmas, 2014, 21, 074504.	1.9	11
18	A reflective image-rotating periscope for spatially resolved Thomson-scattering experiments on OMEGA. Journal of Instrumentation, 2013, 8, C12009-C12009.	1.2	8

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19	A reflective optical transport system for ultraviolet Thomson scattering from electron plasma waves on OMEGA. Review of Scientific Instruments, 2012, 83, 10E349.	1.3	36
20	Shell trajectory measurements from direct-drive implosion experiments. Review of Scientific Instruments, 2012, 83, 10E530.	1.3	36
21	Laserâ€“plasma interactions in direct-drive ignition plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 124016.	2.1	31
22	Efficient laser-induced 6-8â€‰keV x-ray production from iron oxide aerogel and foil-lined cavity targets. Physics of Plasmas, 2012, 19, .	1.9	37
23	Increasing Hydrodynamic Efficiency by Reducing Cross-Beam Energy Transfer in Direct-Drive-Implosion Experiments. Physical Review Letters, 2012, 108, 125003.	7.8	67
24	Source geometric considerations for OMEGA Dante measurements. Review of Scientific Instruments, 2012, 83, 10E117.	1.3	12
25	Characterizing counter-streaming interpenetrating plasmas relevant to astrophysical collisionless shocks. Physics of Plasmas, 2012, 19, .	1.9	101
26	Development of Compton radiography of inertial confinement fusion implosions. Physics of Plasmas, 2011, 18, .	1.9	82
27	Refraction-enhanced x-ray radiography for density profile measurements at CH/Be interface. Journal of Instrumentation, 2011, 6, P09004-P09004.	1.2	30
28	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
29	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
30	Experimental demonstration of early time, hohlraum radiation symmetry tuning for indirect drive ignition experiments. Physics of Plasmas, 2011, 18, 092703.	1.9	30
31	Experimental study of neutron induced background noise on gated x-ray framing cameras. Review of Scientific Instruments, 2010, 81, 10E515.	1.3	21
32	Uncertainty analysis technique for OMEGA Dante measurements. Review of Scientific Instruments, 2010, 81, 10E505.	1.3	37
33	Experimental Demonstration of X-Ray Drive Enhancement with Rugby-Shaped Hohlraums. Physical Review Letters, 2010, 104, 035004.	7.8	44
34	High performance capsule implosions on the OMEGA Laser facility with rugby hohlraums. Physics of Plasmas, 2010, 17, 056313.	1.9	20
35	Suppression of Stimulated Brillouin Scattering by Increased Landau Damping in Multiple-Ion-Species Hohlraum Plasmas. Physical Review Letters, 2008, 100, 105001.	7.8	43
36	Green Frequency-Doubled Laser-Beam Propagation in High-Temperature Hohlraum Plasmas. Physical Review Letters, 2008, 100, 045002.	7.8	27

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37	NIF-scale re-emission sphere measurements of early-time Tr=100eV hohlraum symmetry (invited). Review of Scientific Instruments, 2008, 79, 10E903.	1.3	17
38	Energetics of multiple-ion species hohlraum plasmas. Physics of Plasmas, 2008, 15, .	1.9	26
39	Demonstration of the Density Dependence of X-Ray Flux in a Laser-Driven Hohlraum. Physical Review Letters, 2008, 101, 035001.	7.8	43
40	Hohlraum energetics and implosion symmetry with elliptical phase plates using a multi-cone beam geometry on OMEGA. Journal of Physics: Conference Series, 2008, 112, 022077.	0.4	22
41	Development of a thermal X-radiation source using â€œhotâ€•hohlraums. High Energy Density Physics, 2007, 3, 256-262.	1.5	4
42	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
43	3Ï‰ transmitted beam diagnostic at the Omega Laser Facility. Review of Scientific Instruments, 2006, 77, 10E507.	1.3	13
44	Implementation of imaging Thomson scattering on the Omega Laser. Review of Scientific Instruments, 2006, 77, 10E520.	1.3	29
45	Soft x-ray power diagnostic improvements at the Omega Laser Facility. Review of Scientific Instruments, 2006, 77, 10E518.	1.3	76
46	Intensity Limits for Propagation of0.527â€‰â€‰Î¼mLaser Beams through Large-Scale-Length Plasmas for Inertial Confinement Fusion. Physical Review Letters, 2005, 94, 085005.	7.8	26
47	Direct-drive cryogenic target implosion performance on OMEGA. Physics of Plasmas, 2004, 11, 2790-2797.	1.9	39
48	Implementation of a high energy 4Ï‰ probe beam on the Omega laser. Review of Scientific Instruments, 2004, 75, 3906-3908.	1.3	38
49	Shielding a streak camera from hard x rays. Review of Scientific Instruments, 2004, 75, 4040-4041.	1.3	3
50	Transmitted laser beam diagnostic at the Omega laser facility. Review of Scientific Instruments, 2004, 75, 4171-4173.	1.3	4
51	Direct-drive cryogenic target implosion performance on OMEGA. Physics of Plasmas, 2003, 10, 1937-1945.	1.9	32
52	Spectrometry of charged particles from inertial-confinement-fusion plasmas. Review of Scientific Instruments, 2003, 74, 975-995.	1.3	214
53	Ten-inch manipulator-based neutron temporal diagnostic for cryogenic experiments on OMEGA. Review of Scientific Instruments, 2003, 74, 1713-1716.	1.3	30
54	First results from cryogenic target implosions on OMEGA. Physics of Plasmas, 2002, 9, 2195-2201.	1.9	49

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55	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
56	Inference of mix in direct-drive implosions on OMEGA. Physics of Plasmas, 2002, 9, 2208-2213.	1.9	48
57	Core Performance and Mix in Direct-Drive Spherical Implosions on Omega. , 2002, , 19-26.		0
58	OMEGA ICF experiments and preparation for direct drive ignition on NIF. Nuclear Fusion, 2001, 41, 1413-1422.	3.5	45
59	Inferences of mix in direct-drive spherical implosions with high uniformity. Plasma Physics and Controlled Fusion, 2001, 43, A277-A286.	2.1	4
60	Core performance and mix in direct-drive spherical implosions with high uniformity. Physics of Plasmas, 2001, 8, 2251-2256.	1.9	84
61	Observations of fast protons above 1 MeV produced in direct-drive laser-fusion experiments. Physics of Plasmas, 2001, 8, 606-610.	1.9	28
62	Dâ€“3He proton spectra for diagnosing shell ïR and fuel Ti of imploded capsules at OMEGA. Physics of Plasmas, 2000, 7, 2578-2584.	1.9	54
63	Charged-particle acceleration and energy loss in laser-produced plasmas. Physics of Plasmas, 2000, 7, 5106-5117.	1.9	59