

O S Jones

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

4,763
citations

109264

35
h-index

128225

60
g-index

61
all docs

61
docs citations

61
times ranked

1509
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of inertial fusion implosions reaching the burning plasma regime. <i>Nature Physics</i> , 2022, 18, 251-258.	6.5	87
2	Burning plasma achieved in inertial fusion. <i>Nature</i> , 2022, 601, 542-548.	13.7	233
3	Exploring implosion designs for increased compression on the National Ignition Facility using high density carbon ablaters. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	15
4	Hydroscaling indirect-drive implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	4
5	Laser transport and backscatter in low-density SiO ₂ and Ta ₂ O ₅ foams. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	6
6	Experimental and calculational investigation of laser-heated additive manufactured foams. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	9
7	Simulation studies of the interaction of laser radiation with additively manufactured foams. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 055009.	0.9	5
8	The effects of multispecies <i>Hohlraum</i> walls on stimulated Brillouin scattering, <i>Hohlraum</i> dynamics, and beam propagation. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	6
9	Reaching 30% energy coupling efficiency for a high-density-carbon capsule in a gold rugby hohlraum on NIF. <i>Nuclear Fusion</i> , 2021, 61, 086028.	1.6	4
10	Evidence of restricted heat transport in National Ignition Facility Hohlraums. <i>Physics of Plasmas</i> , 2020, 27, 102704.	0.7	15
11	A novel method to measure ion density in ICF experiments using x-ray spectroscopy of cylindrical tracers. <i>Physics of Plasmas</i> , 2020, 27, 112714.	0.7	2
12	Laser propagation in a subcritical foam: Subgrid model. <i>Physics of Plasmas</i> , 2020, 27, 112710.	0.7	13
13	Foam-lined hohlraum, inertial confinement fusion experiments on the National Ignition Facility. <i>Physical Review E</i> , 2020, 102, 051201.	0.8	2
14	Hotspot conditions achieved in inertial confinement fusion experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	50
15	Understanding ICF hohlraums using NIF gated laser-entrance-hole images. <i>Physics of Plasmas</i> , 2020, 27, 022702.	0.7	13
16	Toward a burning plasma state using diamond ablator inertially confined fusion (ICF) implosions on the National Ignition Facility (NIF). <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 014023.	0.9	53
17	Three-dimensional modeling and hydrodynamic scaling of National Ignition Facility implosions. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	70
18	Heat transport modeling of the dot spectroscopy platform on NIF. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 044009.	0.9	20

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19	Laser propagation in a subcritical foam: Ion and electron heating. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	17
20	Simultaneous visualization of wall motion, beam propagation, and implosion symmetry on the National Ignition Facility (invited). <i>Review of Scientific Instruments</i> , 2018, 89, 10K111.	0.6	15
21	Developing an Experimental Basis for Understanding Transport in NIF Hohlraum Plasmas. <i>Physical Review Letters</i> , 2018, 121, 095002.	2.9	28
22	The relationship between gas fill density and hohlraum drive performance at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	55
23	Simulation of self-generated magnetic fields in an inertial fusion hohlraum environment. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	44
24	Progress towards a more predictive model for hohlraum radiation drive and symmetry. <i>Physics of Plasmas</i> , 2017, 24, 056312.	0.7	64
25	Indirect drive ignition at the National Ignition Facility. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014021.	0.9	64
26	Observation of hohlraum-wall motion with spectrally selective x-ray imaging at the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2016, 87, 11E321.	0.6	11
27	Towards a more universal understanding of radiation drive in gas-filled hohlraums. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012026.	0.3	20
28	A high-speed two-frame, 1-2 ns gated X-ray CMOS imager used as a hohlraum diagnostic on the National Ignition Facility (invited). <i>Review of Scientific Instruments</i> , 2016, 87, 11E203.	0.6	16
29	Electron temperature measurements inside the ablating plasma of gas-filled hohlraums at the National Ignition Facility. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	34
30	Three-dimensional simulations of low foot and high foot implosion experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	162
31	Performance of indirectly driven capsule implosions on the National Ignition Facility using adiabat-shaping. <i>Physics of Plasmas</i> , 2016, 23, 056303.	0.7	38
32	Integrated modeling of cryogenic layered highfoot experiments at the NIF. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	59
33	Inertially confined fusion plasmas dominated by alpha-particle self-heating. <i>Nature Physics</i> , 2016, 12, 800-806.	6.5	144
34	First High-Convergence Cryogenic Implosion in a Near-Vacuum Hohlraum. <i>Physical Review Letters</i> , 2015, 114, 175001.	2.9	117
35	Cryogenic tritium-hydrogen-deuterium and deuterium-tritium layer implosions with high density carbon ablaters in near-vacuum hohlraums. <i>Physics of Plasmas</i> , 2015, 22, 062703.	0.7	62
36	of Plasmas, 2015, 22, 056318.	0.7	80

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37	Radiation hydrodynamics modeling of the highest compression inertial confinement fusion ignition experiment from the National Ignition Campaign. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	120
38	Adiabat-shaping in indirect drive inertial confinement fusion. <i>Physics of Plasmas</i> , 2015, 22, 052702.	0.7	31
39	Stabilization of high-compression, indirect-drive inertial confinement fusion implosions using a 4-shock adiabat-shaped drive. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	40
40	Metrics for long wavelength asymmetries in inertial confinement fusion implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	140
41	A survey of pulse shape options for a revised plastic ablator ignition design. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	50
42	2D X-Ray Radiography of Imploding Capsules at the National Ignition Facility. <i>Physical Review Letters</i> , 2014, 112, 195001.	2.9	154
43	High-density carbon ablator experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	116
44	Progress towards ignition on the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	259
45	Onset of Hydrodynamic Mix in High-Velocity, Highly Compressed Inertial Confinement Fusion Implosions. <i>Physical Review Letters</i> , 2013, 111, 085004.	2.9	215
46	Performance of High-Convergence, Layered DT Implosions with Extended-Duration Pulses at the National Ignition Facility. <i>Physical Review Letters</i> , 2013, 111, 215001.	2.9	47
47	Detailed implosion modeling of deuterium-tritium layered experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, 056318.	0.7	128
48	Cryogenic thermonuclear fuel implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	95
49	Soft x-ray images of the laser entrance hole of ignition hohlraums. <i>Review of Scientific Instruments</i> , 2012, 83, 10E525.	0.6	22
50	Neutron spectrometry—An essential tool for diagnosing implosions at the National Ignition Facility (invited). <i>Review of Scientific Instruments</i> , 2012, 83, 10D308.	0.6	117
51	Shock timing experiments on the National Ignition Facility: Initial results and comparison with simulation. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	115
52	A high-resolution integrated model of the National Ignition Campaign cryogenic layered experiments. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	108
53	Point design targets, specifications, and requirements for the 2010 ignition campaign on the National Ignition Facility. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	534
54	Symmetry tuning for ignition capsules via the symcap technique. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	101

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55	Images of the laser entrance hole from the static x-ray imager at NIF. Review of Scientific Instruments, 2010, 81, 10E538.	0.6	42
56	Role of hydrodynamics simulations in laser-plasma interaction predictive capability. Physics of Plasmas, 2007, 14, 056304.	0.7	24
57	Measurement of the Absolute Hohlraum-Wall Albedo under Ignition Foot Drive Conditions. Physical Review Letters, 2004, 93, 065002.	2.9	23
58	Three-dimensional HYDRA simulations of National Ignition Facility targets. Physics of Plasmas, 2001, 8, 2275-2280.	0.7	579