

Richard Olson

List of Publications by Year in descending order

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28
papers

1,620
citations

516710

16
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	Point design targets, specifications, and requirements for the 2010 ignition campaign on the National Ignition Facility. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	534
2	Capsule implosion optimization during the indirect-drive National Ignition Campaign. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	131
3	Implosion dynamics measurements at the National Ignition Facility. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	125
4	Shock timing experiments on the National Ignition Facility: Initial results and comparison with simulation. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	115
5	A high-resolution integrated model of the National Ignition Campaign cryogenic layered experiments. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	108
6	The first measurements of soft x-ray flux from ignition scale <i>Hohlraums</i> at the National Ignition Facility using DANTE (invited). <i>Review of Scientific Instruments</i> , 2010, 81, 10E321.	1.3	66
7	Observation of High Soft X-Ray Drive in Large-Scale <i>Hohlraums</i> at the National Ignition Facility. <i>Physical Review Letters</i> , 2011, 106, 085003.	7.8	55
8	Shock propagation, preheat, and x-ray burnthrough in indirect-drive inertial confinement fusion ablator materials. <i>Physics of Plasmas</i> , 2004, 11, 2778-2789.	1.9	53
9	First Liquid Layer Inertial Confinement Fusion Implosions at the National Ignition Facility. <i>Physical Review Letters</i> , 2016, 117, 245001.	7.8	53
10	Preheat Effects on Shock Propagation in Indirect-Drive Inertial Confinement Fusion Ablator Materials. <i>Physical Review Letters</i> , 2003, 91, 235002.	7.8	51
11	X-ray conversion efficiency in vacuum hohlraum experiments at the National Ignition Facility. <i>Physics of Plasmas</i> , 2012, 19, 053301.	1.9	48
12	Observation of persistent species temperature separation in inertial confinement fusion mixtures. <i>Nature Communications</i> , 2020, 11, 544.	12.8	41
13	Robustness to hydrodynamic instabilities in indirectly driven layered capsule implosions. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	35
14	The effects of convergence ratio on the implosion behavior of DT layered inertial confinement fusion capsules. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	33
15	Alternative hot spot formation techniques using liquid deuterium-tritium layer inertial confinement fusion capsules. <i>Physics of Plasmas</i> , 2013, 20, 092705.	1.9	32
16	Progress in the development of the MARBLE platform for studying thermonuclear burn in the presence of heterogeneous mix on OMEGA and the National Ignition Facility. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012072.	0.4	24
17	The rate of development of atomic mixing and temperature equilibration in inertial confinement fusion implosions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	17
18	Variable convergence liquid layer implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	15

#	ARTICLE	IF	CITATIONS
19	A magnetic particle time-of-flight (MagPTOF) diagnostic for measurements of shock- and compression-bang time at the NIF (invited). <i>Review of Scientific Instruments</i> , 2014, 85, 11D901.	1.3	12
20	Wetted foam liquid fuel ICF target experiments. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012042.	0.4	12
21	A polar direct drive liquid deuterium-tritium wetted foam target concept for inertial confinement fusion. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	12
22	Development of the Marble experimental platform at the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	11
23	Lasnex simulations of NIF vacuum hohlraum commissioning experiments. <i>Journal of Physics: Conference Series</i> , 2010, 244, 032057.	0.4	9
24	<i>Instruments</i> , 2012, 83, 10D310.	1.3	8
25	Experimental quantification of the impact of heterogeneous mix on thermonuclear burn. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	7
26	Preparations for a European R&D roadmap for an inertial fusion demo reactor. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200005.	3.4	6
27	Experimental validation of shock propagation through a foam with engineered macro-pores. <i>Physics of Plasmas</i> , 2021, 28, 012702.	1.9	5
28	Radiation driven Hohlraum using 2% for ICF implosions at the NIF. <i>Physics of Plasmas</i> , 2020, 27, 082708.	1.9	2