

Otto L Landen

List of Publications by Year in descending order

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Version: 2024-02-01

563
papers

23,527
citations

7096

78
h-index

17105

122
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568
all docs

568
docs citations

568
times ranked

4244
citing authors

#	ARTICLE	IF	CITATIONS
1	Extensions of a classical mechanics piston-model for understanding the impact of asymmetry on ICF implosions: The cases of mode 2, mode 2/1 coupling, time-dependent asymmetry, and the relationship to coast-time. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	22
2	Design of inertial fusion implosions reaching the burning plasma regime. <i>Nature Physics</i> , 2022, 18, 251-258.	16.7	87
3	Burning plasma achieved in inertial fusion. <i>Nature</i> , 2022, 601, 542-548.	27.8	233
4	A study of space charge induced non-linearity in the Single Line Of Sight camera. <i>Review of Scientific Instruments</i> , 2022, 93, 023505.	1.3	3
5	Toward an integrated platform for characterizing laser-driven, isochorically heated plasmas with 1 μ m spatial resolution. <i>Applied Optics</i> , 2022, 61, 1987.	1.8	4
6	Exploring implosion designs for increased compression on the National Ignition Facility using high density carbon ablaters. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	15
7	Hydroscaling indirect-drive implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	4
8	Fresnel Diffractive Radiography Measurements of Transport Properties in Warm Dense Matter. , 2022, , .		0
9	Hohlraum x-ray preheat asymmetry measurement at the ICF capsule via Mo ball fluorescence imaging. <i>Review of Scientific Instruments</i> , 2021, 92, 023517.	1.3	1
10	Low mode implosion symmetry sensitivity in low gas-fill NIF cylindrical hohlraums. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	15
11	Developing inverted-corona fusion targets as high-fluence neutron sources. <i>Review of Scientific Instruments</i> , 2021, 92, 033544.	1.3	4
12	Demonstration of a laser-driven, narrow spectral bandwidth x-ray source for collective x-ray scattering experiments. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	8
13	Time resolved ablator areal density during peak fusion burn on inertial confinement fusion implosions. <i>Physics of Plasmas</i> , 2021, 28, 032701.	1.9	7
14	Fuel convergence sensitivity in indirect drive implosions. <i>Physics of Plasmas</i> , 2021, 28, 042705.	1.9	11
15	Three dimensional low-mode areal-density non-uniformities in indirect-drive implosions at the National Ignition Facility. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	12
16	The effects of multispecies Hohlraum walls on stimulated Brillouin scattering, Hohlraum dynamics, and beam propagation. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	6
17	Achieving record hot spot energies with large HDC implosions on NIF in HYBRID-E. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	55
18	Trending low mode asymmetries in NIF capsule drive using a simple viewfactor metric *. <i>High Energy Density Physics</i> , 2021, 40, 100944.	1.5	19

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19	Metrics for implosion performance with enhanced energy coupling on NIF. Nuclear Fusion, 2021, 61, 116066.	3.5	7
20	Observation of Hydrodynamic Flows in Imploding Fusion Plasmas on the National Ignition Facility. Physical Review Letters, 2021, 127, 125001.	7.8	20
21	Evidence of Three-Dimensional Asymmetries Seeded by High-Density Carbon-Ablator Nonuniformity in Experiments at the National Ignition Facility. Physical Review Letters, 2021, 126, 025002.	7.8	40
22	Record Energetics for an Inertial Fusion Implosion at NIF. Physical Review Letters, 2021, 126, 025001.	7.8	76
23	Understanding asymmetries using integrated simulations of capsule implosions in low gas-fill hohlraums at the National Ignition Facility. Plasma Physics and Controlled Fusion, 2021, 63, 025012.	2.1	14
24	Development of slit projection radiography with 1 μ m resolution at the Omega Laser Facility. , 2021, , .		0
25	Measuring Dynamic Density Gradients in Warm Dense Matter with 1 μ m Spatial Resolution. , 2021, , .		0
26	Using neutrons and x rays to measure plasma conditions in a solid sphere of deuterated polyethylene compressed to densities of 35 g/cc at temperatures of 2 keV and pressures of 40 Gbar. Physics of Plasmas, 2021, 28, .	1.9	1
27	Review of hydrodynamic instability experiments in inertially confined fusion implosions on National Ignition Facility. Plasma Physics and Controlled Fusion, 2020, 62, 014007.	2.1	31
28	Time-Resolved Fuel Density Profiles of the Stagnation Phase of Indirect-Drive Inertial Confinement Implosions. Physical Review Letters, 2020, 125, 155003.	7.8	27
29	Optimization of capsule dopant levels to improve fuel areal density*. High Energy Density Physics, 2020, 37, 100884.	1.5	5
30	Evidence of restricted heat transport in National Ignition Facility Hohlraums. Physics of Plasmas, 2020, 27, 102704.	1.9	15
31	Symmetry tuning and high energy coupling for an Al capsule in a Au rugby hohlraum on NIF. Physics of Plasmas, 2020, 27, .	1.9	5
32	Application of cross-beam energy transfer to control drive symmetry in ICF implosions in low gas fill <i>Hohlraums</i> at the National Ignition Facility. Physics of Plasmas, 2020, 27, .	1.9	18
33	A novel method to measure ion density in ICF experiments using x-ray spectroscopy of cylindrical tracers. Physics of Plasmas, 2020, 27, 112714.	1.9	2
34	Integrated performance of large HDC-capsule implosions on the National Ignition Facility. Physics of Plasmas, 2020, 27, .	1.9	22
35	Fill tube dynamics in inertial confinement fusion implosions with high density carbon ablaters. Physics of Plasmas, 2020, 27, .	1.9	11
36	View factor estimation of hot spot velocities in inertial confinement fusion implosions at the National Ignition Facility. Physics of Plasmas, 2020, 27, .	1.9	9

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37	Measurements of enhanced performance in an indirect drive inertial confinement fusion experiment when reducing the contact area of the capsule support. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
38	Hotspot parameter scaling with velocity and yield for high-adiabat layered implosions at the National Ignition Facility. <i>Physical Review E</i> , 2020, 102, 023210.	2.1	25
39	Experimental demonstration of the reduced expansion of a laser-heated surface using a low density foam layer, pertaining to advanced hohlraum designs with less wall-motion. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	12
40	Foam-lined hohlraum, inertial confinement fusion experiments on the National Ignition Facility. <i>Physical Review E</i> , 2020, 102, 051201.	2.1	2
41	Carbon ablator areal density at fusion burn: Observations and trends at the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	11
42	Demonstration of Scale-Invariant Rayleigh-Taylor Instability Growth in Laser-Driven Cylindrical Implosion Experiments. <i>Physical Review Letters</i> , 2020, 124, 185003.	7.8	42
43	Measurement of hydrodynamic instability growth during the deceleration of an inertial confinement fusion implosion. <i>High Energy Density Physics</i> , 2020, 37, 100817.	1.5	1
44	Hotspot conditions achieved in inertial confinement fusion experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	50
45	Direct observation of density gradients in ICF capsule implosions via streaked Refraction Enhanced Radiography (RER). <i>High Energy Density Physics</i> , 2020, 36, 100795.	1.5	6
46	Recent and planned hydrodynamic instability experiments on indirect-drive implosions on the National Ignition Facility. <i>High Energy Density Physics</i> , 2020, 36, 100820.	1.5	8
47	An analytic asymmetric-piston model for the impact of mode-1 shell asymmetry on ICF implosions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	49
48	Mixing in ICF implosions on the National Ignition Facility caused by the fill-tube. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	41
49	Achieving 280 Gbar hot spot pressure in DT-layered CH capsule implosions at the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	20
50	Azimuthal Drive Asymmetry in Inertial Confinement Fusion Implosions on the National Ignition Facility. <i>Physical Review Letters</i> , 2020, 124, 145002.	7.8	44
51	Hydro-scaling of direct-drive cylindrical implosions at the OMEGA and the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, 042708.	1.9	15
52	Yield and compression trends and reproducibility at NIF*. <i>High Energy Density Physics</i> , 2020, 36, 100755.	1.5	25
53	First study of Hohlraum x-ray preheat asymmetry inside an ICF capsule. <i>Physics of Plasmas</i> , 2020, 27, 122703.	1.9	9
54	Optimized continuum x-ray emission from laser-generated plasma. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	12

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55	Design of Cylindrical Implosion Experiments to Demonstrate Scale-Invariant Rayleigh-Taylor Instability Growth. High Energy Density Physics, 2020, 36, 100831.	1.5	8
56	Toward a burning plasma state using diamond ablator inertially confined fusion (ICF) implosions on the National Ignition Facility (NIF). Plasma Physics and Controlled Fusion, 2019, 61, 014023.	2.1	53
57	A simulation-based model for understanding the time dependent x-ray drive asymmetries and error bars in indirectly driven implosions on the National Ignition Facility. Physics of Plasmas, 2019, 26, 062703.	1.9	8
58	Progress of indirect drive inertial confinement fusion in the United States. Nuclear Fusion, 2019, 59, 112018.	3.5	38
59	Optimization of high energy x ray production through laser plasma interaction. High Energy Density Physics, 2019, 31, 13-18.	1.5	8
60	The Crystal Backlighter Imager: A spherically bent crystal imager for radiography on the National Ignition Facility. Review of Scientific Instruments, 2019, 90, 013702.	1.3	35
61	Maintaining low-mode symmetry control with extended pulse shapes for lower-adiabat Bigfoot implosions on the National Ignition Facility. Physics of Plasmas, 2019, 26, .	1.9	14
62	Inference of the electron temperature in inertial confinement fusion implosions from the hard X-ray spectral continuum. Contributions To Plasma Physics, 2019, 59, 181-188.	1.1	5
63	A 3D dynamic model to assess the impacts of low-mode asymmetry, aneurysms and mix-induced radiative loss on capsule performance across inertial confinement fusion platforms. Nuclear Fusion, 2019, 59, 032009.	3.5	40
64	Enhanced energy coupling for indirectly driven inertial confinement fusion. Nature Physics, 2019, 15, 138-141.	16.7	32
65	Heat transport modeling of the dot spectroscopy platform on NIF. Plasma Physics and Controlled Fusion, 2018, 60, 044009.	2.1	20
66	Comparison of plastic, high density carbon, and beryllium as indirect drive NIF ablaters. Physics of Plasmas, 2018, 25, .	1.9	39
67	Influence of argon impurities on the elastic scattering of x-rays from imploding beryllium capsules. High Energy Density Physics, 2018, 26, 86-92.	1.5	3
68	Update 2017 on Target Fabrication Requirements for High-Performance NIF Implosion Experiments. Fusion Science and Technology, 2018, 73, 83-88.	1.1	2
69	Visualizing deceleration-phase instabilities in inertial confinement fusion implosions using an "enhanced self-emission" technique at the National Ignition Facility. Physics of Plasmas, 2018, 25, 054502.	1.9	22
70	The high velocity, high adiabat, "Bigfoot" campaign and tests of indirect-drive implosion scaling. Physics of Plasmas, 2018, 25, .	1.9	90
71	A plasma amplifier to combine multiple beams at NIF. Physics of Plasmas, 2018, 25, .	1.9	17
72	Exploring the limits of case-to-capsule ratio, pulse length, and picket energy for symmetric hohlraum drive on the National Ignition Facility Laser. Physics of Plasmas, 2018, 25, .	1.9	79

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73	Plasma-based beam combiner for very high fluence and energy. <i>Nature Physics</i> , 2018, 14, 80-84.	16.7	50
74	Alternative irradiation schemes for NIF and LMJ hohlraums. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 025006.	2.1	2
75	Progress toward a self-consistent set of 1D ignition capsule metrics in ICF. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	51
76	Developing a long-duration Zn K- $\hat{\pm}$ source for x-ray scattering experiments. <i>Review of Scientific Instruments</i> , 2018, 89, 10F109.	1.3	4
77	High-Performance Indirect-Drive Cryogenic Implosions at High Adiabatic on the National Ignition Facility. <i>Physical Review Letters</i> , 2018, 121, 135001.	7.8	86
78	X-ray streaked refraction enhanced radiography for inferring inflight density gradients in ICF capsule implosions. <i>Review of Scientific Instruments</i> , 2018, 89, 10G108.	1.3	23
79	Probing the seeding of hydrodynamic instabilities from nonuniformities in ablator materials using 2D velocimetry. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	32
80	First demonstration of improved capsule implosions by reducing radiation preheat in uranium vs gold hohlraums. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	17
81	Using time-resolved penumbral imaging to measure low hot spot x-ray emission signals from capsule implosions at the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2018, 89, 10G111.	1.3	5
82	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.	1.3	15
83	Implementing time resolved electron temperature capability at the NIF using a streak camera. <i>Review of Scientific Instruments</i> , 2018, 89, 10K117.	1.3	5
84	Hydrodynamic instability seeding by oxygen nonuniformities in glow discharge polymer inertial fusion ablaters. <i>Physical Review E</i> , 2018, 98, .	2.1	10
85	Developing an Experimental Basis for Understanding Transport in NIF Hohlraum Plasmas. <i>Physical Review Letters</i> , 2018, 121, 095002.	7.8	28
86	Mitigation of X-ray shadow seeding of hydrodynamic instabilities on inertial confinement fusion capsules using a reduced diameter fuel fill-tube. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	30
87	Review of hydro-instability experiments with alternate capsule supports in indirect-drive implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2018, 25, 072705.	1.9	20
88	Absolute Equation-of-State Measurement for Polystyrene from 25 to 60 $\hat{\text{A}}$ mbar Using a Spherically Converging Shock Wave. <i>Physical Review Letters</i> , 2018, 121, 025001.	7.8	39
89	Effects of asymmetry and hot-spot shape on ignition capsules. <i>Physical Review E</i> , 2018, 98, 023203.	2.1	21
90	Hydrodynamic instabilities seeded by the X-ray shadow of ICF capsule fill-tubes. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	25

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91	The influence of hohlraum dynamics on implosion symmetry in indirect drive inertial confinement fusion experiments. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	42
92	Development of new platforms for hydrodynamic instability and asymmetry measurements in deceleration phase of indirectly driven implosions on NIF. <i>Physics of Plasmas</i> , 2018, 25, 082705.	1.9	15
93	Thermal Temperature Measurements of Inertial Fusion Implosions. <i>Physical Review Letters</i> , 2018, 121, 085001.	7.8	31
94	Applications and results of X-ray spectroscopy in implosion experiments on the National Ignition Facility. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
95	Improving ICF implosion performance with alternative capsule supports. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	54
96	Examining the radiation drive asymmetries present in the high foot series of implosion experiments at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	31
97	High-energy (>70 keV) x-ray conversion efficiency measurement on the ARC laser at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	45
98	The relationship between gas fill density and hohlraum drive performance at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	55
99	Hydrodynamic instability growth of three-dimensional modulations in radiation-driven implosions with low- and high-foot drives at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	30
100	Calibration and characterization of a highly efficient spectrometer in von Hamos geometry for 7-10 keV x-rays. <i>Review of Scientific Instruments</i> , 2017, 88, 043110.	1.3	15
101	The role of hot spot mix in the low-foot and high-foot implosions on the NIF. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	49
102	Symmetry control of an indirectly driven high-density-carbon implosion at high convergence and high velocity. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	106
103	Mix and hydrodynamic instabilities on NIF. <i>Journal of Instrumentation</i> , 2017, 12, C06001-C06001.	1.2	21
104	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. <i>Physics of Plasmas</i> , 2017, 24, 032705.	1.9	2
105	Hydro-instability growth of perturbation seeds from alternate capsule-support strategies in indirect-drive implosions on National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, 102707.	1.9	27
106	On the importance of minimizing coast-time in x-ray driven inertially confined fusion implosions. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	47
107	On krypton-doped capsule implosion experiments at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	20
108	Ultrafast probing of magnetic field growth inside a laser-driven solenoid. <i>Physical Review E</i> , 2017, 95, 033208.	2.1	49

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109	Short pulse, high resolution, backlighters for point projection high-energy radiography at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	42
110	X-ray shadow imprint of hydrodynamic instabilities on the surface of inertial confinement fusion capsules by the fuel fill tube. <i>Physical Review E</i> , 2017, 95, 031204.	2.1	46
111	Semi-empirical "leaky-bucket" model of laser-driven x-ray cavities. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	12
112	Indirect drive ignition at the National Ignition Facility. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014021.	2.1	64
113	Positron radiography of ignition-relevant ICF capsules. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	3
114	Simplified model of pinhole imaging for quantifying systematic errors in image shape. <i>Applied Optics</i> , 2017, 56, 8719.	1.8	10
115	X-ray penumbral imaging diagnostic developments at the National Ignition Facility. , 2017, , .		7
116	Hydrodynamic growth experiments with the 3-D, "native-roughness" modulations on NIF. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012052.	0.4	3
117	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.	1.3	11
118	Early-time radiation flux symmetry optimization and its effect on gas-filled hohlraum ignition targets on the National Ignition Facility. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	6
119	X-ray Thomson scattering measurements from hohlraum-driven spheres on the OMEGA laser. <i>Review of Scientific Instruments</i> , 2016, 87, 11E724.	1.3	6
120	Hotspot electron temperature from x-ray continuum measurements on the NIF. <i>Review of Scientific Instruments</i> , 2016, 87, 11E534.	1.3	21
121	Indirect-drive ablative Richtmyer Meshkov node scaling. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012034.	0.4	12
122	Shock Hugoniot measurements of CH at Gbar pressures at the NIF. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012055.	0.4	16
123	Hydrodynamic instabilities and mix studies on NIF: predictions, observations, and a path forward. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012090.	0.4	3
124	Platform for spectrally resolved x-ray scattering from imploding capsules at the National Ignition Facility. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012067.	0.4	16
125	Capsule Ablator Inflight Performance Measurements Via Streaked Radiography Of ICF Implosions On The NIF*. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012014.	0.4	9
126	Performance of indirectly driven capsule implosions on NIF using adiabat-shaping. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012045.	0.4	0

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127	The preliminary design of the optical Thomson scattering diagnostic for the National Ignition Facility. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012089.	0.4	11
128	X-ray scattering measurements of dissociation-induced metallization of dynamically compressed deuterium. <i>Nature Communications</i> , 2016, 7, 11189.	12.8	27
129	Design calculations for a xenon plasma x-ray shield to protect the NIF optical Thomson scattering diagnostic. <i>Review of Scientific Instruments</i> , 2016, 87, 11D603.	1.3	2
130	Electron temperature measurements inside the ablating plasma of gas-filled hohlraums at the National Ignition Facility. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	34
131	Simulated performance of the optical Thomson scattering diagnostic designed for the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2016, 87, 11E510.	1.3	19
132	Resolving hot spot microstructure using x-ray penumbral imaging (invited). <i>Review of Scientific Instruments</i> , 2016, 87, 11E201.	1.3	38
133	Performance of indirectly driven capsule implosions on the National Ignition Facility using adiabat-shaping. <i>Physics of Plasmas</i> , 2016, 23, 056303.	1.9	38
134	Symmetry control in subscale near-vacuum hohlraums. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	34
135	Experimental results of radiation-driven, layered deuterium-tritium implosions with adiabat-shaped drives at the National Ignition Facility. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	27
136	eHXI: a permanently installed, hard x-ray imager for the National Ignition Facility. <i>Journal of Instrumentation</i> , 2016, 11, P06010-P06010.	1.2	14
137	Integrated modeling of cryogenic layered highfoot experiments at the NIF. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	59
138	A direct-drive exploding-pusher implosion as the first step in development of a monoenergetic charged-particle backlighting platform at the National Ignition Facility. <i>High Energy Density Physics</i> , 2016, 18, 38-44.	1.5	9
139	Inertially confined fusion plasmas dominated by alpha-particle self-heating. <i>Nature Physics</i> , 2016, 12, 800-806.	16.7	144
140	X-ray scattering measurements on imploding CH spheres at the National Ignition Facility. <i>Physical Review E</i> , 2016, 94, 011202.	2.1	64
141	Generation and Beaming of Early Hot Electrons onto the Capsule in Laser-Driven Ignition Hohlraums. <i>Physical Review Letters</i> , 2016, 116, 075003.	7.8	45
142	Measurement of Hydrodynamic Growth near Peak Velocity in an Inertial Confinement Fusion Capsule Implosion using a Self-Radiography Technique. <i>Physical Review Letters</i> , 2016, 117, 035001.	7.8	28
143	Using neutrons to measure keV temperatures in highly compressed plastic at multi-Gbar pressures. <i>High Energy Density Physics</i> , 2016, 21, 20-26.	1.5	7
144	The design of the optical Thomson scattering diagnostic for the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2016, 87, 11E549.	1.3	6

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145	Improving the off-axis spatial resolution and dynamic range of the NIF X-ray streak cameras (invited). Review of Scientific Instruments, 2016, 87, 11E202.	1.3	10
146	Improving a high-efficiency, gated spectrometer for x-ray Thomson scattering experiments at the National Ignition Facility. Review of Scientific Instruments, 2016, 87, 11E515.	1.3	6
147	Spatial resolution measurements of the advanced radiographic capability x-ray imaging system at energies relevant to Compton radiography. Review of Scientific Instruments, 2016, 87, 11E310.	1.3	3
148	Structured photocathodes for improved high-energy x-ray efficiency in streak cameras. Review of Scientific Instruments, 2016, 87, 11E331.	1.3	4
149	Improved hard x-ray (50-80 keV) imaging of hohlraum implosion experiments at the National Ignition Facility. Proceedings of SPIE, 2016, , .	0.8	4
150	National Ignition Facility Laser System Performance. Fusion Science and Technology, 2016, 69, 366-394.	1.1	70
151	Update 2015 on Target Fabrication Requirements for NIF Layered Implosions, with Emphasis on Capsule Support and Oxygen Modulations in GDP. Fusion Science and Technology, 2016, 70, 121-126.	1.1	16
152	Fluence-compensated down-scattered neutron imaging using the neutron imaging system at the National Ignition Facility. Review of Scientific Instruments, 2016, 87, 11E715.	1.3	24
153	Measurement of inflight shell areal density near peak velocity using a self backlighting technique. Journal of Physics: Conference Series, 2016, 717, 012044.	0.4	2
154	Advances in shock timing experiments on the National Ignition Facility. Journal of Physics: Conference Series, 2016, 688, 012092.	0.4	2
155	Hydrodynamic growth and mix experiments at National Ignition Facility. Journal of Physics: Conference Series, 2016, 688, 012113.	0.4	3
156	Images of the gold bubble feature in NIF Gas-Filled Ignition Hohlräume. Journal of Physics: Conference Series, 2016, 717, 012049.	0.4	12
157	Hydrodynamic instability experiments with three-dimensional modulations at the National Ignition Facility. High Power Laser Science and Engineering, 2015, 3, .	4.6	17
158	Improved Performance of High Areal Density Indirect Drive Implosions at the National Ignition Facility using a Four-Shock Adiabatic Shaped Drive. Physical Review Letters, 2015, 115, 105001.	7.8	58
159	Differential heating: A versatile method for thermal conductivity measurements in high-energy-density matter. Physics of Plasmas, 2015, 22, .	1.9	16
160	Laser absorption, power transfer, and radiation symmetry during the first shock of inertial confinement fusion gas-filled hohlraum experiments. Physics of Plasmas, 2015, 22, 122701.	1.9	9
161	The size and structure of the laser entrance hole in gas-filled hohlraums at the National Ignition Facility. Physics of Plasmas, 2015, 22, .	1.9	19
162	2015, 22, 056314.	1.9	49

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163	First High-Convergence Cryogenic Implosion in a Near-Vacuum Hohlräum. Physical Review Letters, 2015, 114, 175001.	7.8	117
164	Performance and Mix Measurements of Indirect Drive Cu-Doped Be Implosions. Physical Review Letters, 2015, 114, 205002.	7.8	18
165	Cryogenic tritium-hydrogen-deuterium and deuterium-tritium layer implosions with high density carbon ablaters in near-vacuum hohlraums. Physics of Plasmas, 2015, 22, 062703.	1.9	62
166	of Plasmas, 2015, 22, 056315.	1.9	82
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