

# Review of the National Ignition Campaign 2009-2012

Physics of Plasmas

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Weakly nonlinear Rayleigh-Taylor instability of a finite-thickness fluid layer. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	32
2	A wedged-peak-pulse design with medium fuel adiabat for indirect-drive fusion. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	15
3	On thermonuclear ignition criterion at the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	16
4	The effect of shock dynamics on compressibility of ignition-scale National Ignition Facility implosions. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	20
5	Ion kinetic effects on the ignition and burn of inertial confinement fusion targets: A multi-scale approach. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	14
6	Spectroscopic studies of shell mix in directly driven implosion on SGIII prototype laser facility. <i>Physics of Plasmas</i> , 2014, 21, 122707.	0.7	4
7	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.	0.6	12
8	Novel free-form hohlraum shape design and optimization for laser-driven inertial confinement fusion. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	14
9	Compact hohlraum configuration with parallel planar-wire-array x-ray sources at the 1.7-MA Zebra generator. <i>Physical Review E</i> , 2014, 90, 063101.	0.8	6
10	Self characterization of a coded aperture array for neutron source imaging. <i>Review of Scientific Instruments</i> , 2014, 85, 123506.	0.6	14
11	Octahedral spherical hohlraum and its laser arrangement for inertial fusion. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	56
12	Integrated inertial fusion energy chamber dynamics and response. <i>Fusion Engineering and Design</i> , 2014, 89, 3131-3148.	1.0	0
13	Moiré deflectometry using the Talbot-Lau interferometer as refraction diagnostic for High Energy Density plasmas at energies below 10 keV. <i>Review of Scientific Instruments</i> , 2014, 85, 073702.	0.6	21
14	Comparison between illumination model and hydrodynamic simulation for a direct drive laser irradiated target. <i>Laser and Particle Beams</i> , 2014, 32, 549-556.	0.4	6
15	Hydrodynamic instabilities in beryllium targets for the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, 092701.	0.7	27
16	Species separation and modification of neutron diagnostics in inertial-confinement fusion. <i>Europhysics Letters</i> , 2014, 107, 65003.	0.7	37
17	Enhanced Delamination of Ultrathin Free-Standing Polymer Films via Self-Limiting Surface Modification. <i>Langmuir</i> , 2014, 30, 5126-5132.	1.6	48
18	Effects of Large-Angle Coulomb Collisions on Inertial Confinement Fusion Plasmas. <i>Physical Review Letters</i> , 2014, 112, 245002.	2.9	7

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19	Study on size of laser entrance hole shield for ignition octahedral spherical hohlraums. <i>Laser and Particle Beams</i> , 2015, 33, 731-739.	0.4	7
20	An important criterion for reliable multi-monochromatic x-ray imager diagnostics and its impact on the reconstructed images. <i>High Power Laser Science and Engineering</i> , 2015, 3, .	2.0	4
21	On the interaction of a planar shock with an polygon. <i>Journal of Fluid Mechanics</i> , 2015, 773, 366-394.	1.4	63
22	Effect of the laser intensity profile on the shock non-uniformity in a directly driven spherical target. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	2
23	Alpha Heating and Burning Plasmas in Inertial Confinement Fusion. <i>Physical Review Letters</i> , 2015, 114, 255003.	2.9	83
24	Improved Performance of High Areal Density Indirect Drive Implosions at the National Ignition Facility using a Four-Shock Adiabatic Shaped Drive. <i>Physical Review Letters</i> , 2015, 115, 105001.	2.9	58
25	Uniformity of spherical shock wave dynamically stabilized by two successive laser profiles in direct-drive inertial confinement fusion implosions. <i>Physics of Plasmas</i> , 2015, 22, 102709.	0.7	5
26	Understanding reliability and some limitations of the images and spectra reconstructed from a multi-monochromatic x-ray imager. <i>Review of Scientific Instruments</i> , 2015, 86, 113505.	0.6	5
27	The size and structure of the laser entrance hole in gas-filled hohlraums at the National Ignition Facility. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	19
28	Interaction of a weak shock wave with a discontinuous heavy-gas cylinder. <i>Physics of Fluids</i> , 2015, 27, .	1.6	35
29	On three-dimensional reconstruction of a neutron/x-ray source from very few two-dimensional projections. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	20
30	Influence of Capsule Offset on Radiation Asymmetry in Shenguang-II Laser Facility. <i>Plasma Science and Technology</i> , 2015, 17, 842-846.	0.7	3
31	Intrafilm separation of solgel film under nanosecond irradiation. <i>Applied Optics</i> , 2015, 54, 10504.	2.1	3
32	Photo-oxidation of polymer-like amorphous hydrogenated carbon under visible light illumination. <i>Polymer Degradation and Stability</i> , 2015, 122, 133-138.	2.7	11
33	Detecting fiducials affected by trombone delay in ARC and the main laser alignment at the National Ignition Facility. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
34	High-energy krypton fluoride lasers for inertial fusion. <i>Applied Optics</i> , 2015, 54, F103.	2.1	54
35	Application of the Gauss-Seidel Iteration Process in the Diagonal Element Isolation Method for Thermal Radiation Transfer Problems. <i>Atomic Energy</i> , 2015, 117, 156-160.	0.1	0
36	Shock ignition: a brief overview and progress in the design of robust targets. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 014022.	0.9	6

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37	Comprehensive sets of $X_e$	1.1	16
38	Light for controlled fusion energy: A perspective on laser-driven inertial fusion. <i>Europhysics Letters</i> , 2015, 109, 45001.	0.7	14
39	High-density carbon capsule experiments on the national ignition facility. <i>Physical Review E</i> , 2015, 91, 021101.	0.8	38
40	Self-consistent inclusion of classical large-angle Coulomb collisions in plasma Monte Carlo simulations. <i>Journal of Computational Physics</i> , 2015, 299, 144-155.	1.9	17
41	A novel scheme for direct drive target with enhanced radiation. <i>Physica Scripta</i> , 2015, 90, 085603.	1.2	0
42	Inertial confinement fusion and prospects for power production. <i>High Power Laser Science and Engineering</i> , 2015, 3, .	2.0	28
43	Instability growth seeded by oxygen in CH shells on the National Ignition Facility. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	46
44	An efficient computational approach for evaluating radiation flux for laser driven inertial confinement fusion targets. <i>Computer Physics Communications</i> , 2015, 193, 49-54.	3.0	3
45	High-density carbon ablator ignition path with low-density gas-filled hohlraum. <i>Physics of Plasmas</i> , 2015, 22, 040703.	0.7	12
46	Angular radiation temperature simulation for time-dependent capsule drive prediction in inertial confinement fusion. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	23
47	Realization of a flat-response photocathode for x-ray streak cameras. <i>Optics Express</i> , 2015, 23, 19793.	1.7	3
48	Direct measurement of x-ray flux for a pre-specified highly-resolved region in hohlraum. <i>Optics Express</i> , 2015, 23, A1072.	1.7	19
49	Uranium hohlraum with an ultrathin uranium nitride coating layer for low hard x-ray emission and high radiation temperature. <i>New Journal of Physics</i> , 2015, 17, 113004.	1.2	10
50	Vanadium fine-structure K-shell electron impact ionization cross sections for fast-electron diagnostic in laser solid experiments. <i>Atomic Data and Nuclear Data Tables</i> , 2015, 105-106, 1-8.	0.9	0
51	Demonstration of High Performance in Layered Deuterium-Tritium Capsule Implosions in Uranium Hohlraums at the National Ignition Facility. <i>Physical Review Letters</i> , 2015, 115, 055001.	2.9	101
52	Combustion phenomena in modern physics: I. Inertial confinement fusion. <i>Progress in Energy and Combustion Science</i> , 2015, 47, 32-59.	15.8	18
53	Multiple angle measurement and modeling of M-band x-ray fluxes from vacuum hohlraum. <i>Physics of Plasmas</i> , 2016, 23, 092709.	0.7	6
54	Investigating the hohlraum radiation properties through the angular distribution of the radiation temperature. <i>Physics of Plasmas</i> , 2016, 23, 082708.	0.7	8

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55	Radiation Hydrodynamic Simulations in the Planar Scheme for the Fundamental Studies of Shock Ignition. <i>Plasma Science and Technology</i> , 2016, 18, 376-381.	0.7	0
56	Overview of Progress and Future Prospects in Indirect Drive Implosions on the National Ignition Facility. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012005.	0.3	11
57	Matter under extreme conditions experiments at the Linac Coherent Light Source. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 092001.	0.6	107
58	Alpha Heating and Burning Plasmas in Inertial Confinement Fusion. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012007.	0.3	7
59	Design of the polar neutron-imaging aperture for use at the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2016, 87, 11D821.	0.6	13
60	Implosion configurations for robust ignition using high-density carbon (diamond) ablator for indirect-drive ICF at the National Ignition Facility. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012023.	0.3	30
61	A new ignition hohlraum design for indirect-drive inertial confinement fusion. <i>Chinese Physics B</i> , 2016, 25, 085202.	0.7	6
62	An x-ray backlit Talbot-Lau deflectometer for high-energy-density electron density diagnostics. <i>Review of Scientific Instruments</i> , 2016, 87, 023505.	0.6	11
63	Resolving hot spot microstructure using x-ray penumbral imaging (invited). <i>Review of Scientific Instruments</i> , 2016, 87, 11E201.	0.6	38
64	Quantum molecular dynamics simulations of equation of state of warm dense ethane. <i>Physics of Plasmas</i> , 2016, 23, 092706.	0.7	0
65	The near vacuum hohlraum campaign at the NIF: A new approach. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	51
66	A unified free-form representation applied to the shape optimization of the hohlraum with octahedral 6 laser entrance holes. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	9
67	Experimental demonstration of laser imprint reduction using underdense foams. <i>Physics of Plasmas</i> , 2016, 23, 042701.	0.7	21
68	Ion-kinetic simulations of D-3He gas-filled inertial confinement fusion target implosions with moderate to large Knudsen number. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	26
69	Ignition conditions relaxation for central hot-spot ignition with an ion-electron non-equilibrium model. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	10
70	Parametric instabilities in strongly correlated plasma. <i>Physics of Plasmas</i> , 2016, 23, 102704.	0.7	7
71	Effects of the P2 M-band flux asymmetry of laser-driven gold Hohlraums on the implosion of ICF ignition capsule. <i>Physics of Plasmas</i> , 2016, 23, 072705.	0.7	5
72	The Big Science of Stockpile Stewardship. <i>Physics Today</i> , 2016, 69, 46-53.	0.3	41

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73	Experimental study on the incident-angle-dependent laser coupling features of polystyrene targets. <i>Physica Scripta</i> , 2016, 91, 115602.	1.2	0
74	The Kelvin-Helmholtz instability in National Ignition Facility hohlraums as a source of gold-gas mixing. <i>Physics of Plasmas</i> , 2016, 23, 052704.	0.7	16
75	The Richtmyer-Meshkov instability of a $\sim V$ shaped air/ interface. <i>Journal of Fluid Mechanics</i> , 2016, 802, 186-202.	1.4	30
76	Two-dimensional particle-in-cell simulation of small-scale laser-plasma interactions with laser-produced plasma jets. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 932.	0.9	4
77	Converging cylindrical magnetohydrodynamic shock collapse onto a power-law-varying line current. <i>Journal of Fluid Mechanics</i> , 2016, 793, 414-443.	1.4	16
78	Separation of ions on the front of a shock wave in a multicomponent plasma. <i>JETP Letters</i> , 2016, 103, 238-243.	0.4	6
79	Inertial-confinement fusion with lasers. <i>Nature Physics</i> , 2016, 12, 435-448.	6.5	508
80	The Richtmyer-Meshkov instability of a $\sim V$ shaped air/helium interface subjected to a weak shock. <i>Theoretical and Applied Mechanics Letters</i> , 2016, 6, 226-229.	1.3	2
81	A simulation-based and analytic analysis of the off-Hugoniot response of alternative inertial confinement fusion ablator materials. <i>High Energy Density Physics</i> , 2016, 20, 23-28.	0.4	15
82	Imprinting high-gradient topographical structures onto optical surfaces using magnetorheological finishing: manufacturing corrective optical elements for high-power laser applications. <i>Applied Optics</i> , 2016, 55, 5240.	2.1	18
83	Core conditions for alpha heating attained in direct-drive inertial confinement fusion. <i>Physical Review E</i> , 2016, 94, 011201.	0.8	30
84	Richtmyer-Meshkov instability of a three-dimensional $SF_6$ -air interface with a minimum-surface feature. <i>Physical Review E</i> , 2016, 93, 013101.	0.8	13
85	Transport coefficients of a relativistic plasma. <i>Physical Review E</i> , 2016, 93, 053208.	0.8	3
86	Ionic Transport Coefficients of Dense Plasmas without Molecular Dynamics. <i>Physical Review Letters</i> , 2016, 116, 075002.	2.9	45
87	Generation and Beaming of Early Hot Electrons onto the Capsule in Laser-Driven Ignition Hohlraums. <i>Physical Review Letters</i> , 2016, 116, 075003.	2.9	45
88	Low Fuel Convergence Path to Direct-Drive Fusion Ignition. <i>Physical Review Letters</i> , 2016, 116, 255003.	2.9	36
89	Intimate relationship between spectroscopy and collisions: a scenario to calculate relevant atomic data for astrophysics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 214005.	0.6	11
90	Effect of different tritium fractions on some plasma parameters in deuterium-tritium magnetic confinement fusion. <i>European Physical Journal Plus</i> , 2016, 131, 1.	1.2	4

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91	The Richtmyer-Meshkov instability of a $\epsilon$ -shaped air/helium interface subjected to a weak shock. <i>Physics of Fluids</i> , 2016, 28, .	1.6	24
92	Overview: Development of the National Ignition Facility and the Transition to a User Facility for the Ignition Campaign and High Energy Density Scientific Research. <i>Fusion Science and Technology</i> , 2016, 69, 1-24.	0.6	76
93	Sensitivity of chemical vapor deposition diamonds to DD and DT neutrons at OMEGA and the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2016, 87, 11D817.	0.6	3
94	Design of Time-Resolved Shifted Dual Transmission Grating Spectrometer for the X-Ray Spectrum Diagnostics. <i>Plasma Science and Technology</i> , 2016, 18, 781-785.	0.7	3
95	Origin of the plasma scalds in dielectric coatings induced by 1% laser. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	7
96	Linear simulations of the cylindrical Richtmyer-Meshkov instability in magnetohydrodynamics. <i>Physics of Fluids</i> , 2016, 28, .	1.6	16
97	Aspect ratio effect on shock-accelerated elliptic gas cylinders. <i>Physics of Fluids</i> , 2016, 28, .	1.6	29
98	Progress in octahedral spherical hohlraum study. <i>Matter and Radiation at Extremes</i> , 2016, 1, 8-27.	1.5	106
99	Physics of laser-plasma interaction for shock ignition of fusion reactions. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 014018.	0.9	7
100	P2 asymmetry of Au's M-band flux and its smoothing effect due to high-Z ablator dopants. <i>Matter and Radiation at Extremes</i> , 2017, 2, 69-76.	1.5	14
101	Preliminary study on a tetrahedral hohlraum with four half-cylindrical cavities for indirectly driven inertial confinement fusion. <i>Nuclear Fusion</i> , 2017, 57, 046020.	1.6	8
102	Impact of temperature-velocity distribution on fusion neutron peak shape. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	27
103	Probabilistic approach to nonlinear wave-particle resonant interaction. <i>Physical Review E</i> , 2017, 95, 023204.	0.8	25
104	Refraction of cylindrical converging shock wave at an air/helium gaseous interface. <i>Physics of Fluids</i> , 2017, 29, .	1.6	18
105	Theoretical and simulation research of hydrodynamic instabilities in inertial-confinement fusion implosions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	2.0	49
106	Shock-induced mix across an ideal interface. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	16
107	Influence of Au M-band flux asymmetry on implosion symmetry. <i>Laser and Particle Beams</i> , 2017, 35, 337-343.	0.4	3
108	Simultaneous measurement of the HT and DT fusion burn histories in inertial fusion implosions. <i>Review of Scientific Instruments</i> , 2017, 88, 053504.	0.6	6

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109	Weakly nonlinear incompressible Rayleigh-Taylor instability in spherical geometry. <i>Physics of Plasmas</i> , 2017, 24, 062703.	0.7	15
110	A >2-MJ, 1014-W laser system for DT fusion at NIF: a note in celebration of the 75th birthday of Prof. Theodore Haensch. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	3
111	Symmetry control of an indirectly driven high-density-carbon implosion at high convergence and high velocity. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	106
112	First experimental comparisons of laser-plasma interactions between spherical and cylindrical hohlraums at SGIII laser facility. <i>Matter and Radiation at Extremes</i> , 2017, 2, 77-86.	1.5	18
113	Experimental study on final optics assembly at 351nm laser. , 2017, , .		1
114	Comparing the soft x-rays transport in Si and Ge-sandwich targets by measuring transmission flux. <i>Physics of Plasmas</i> , 2017, 24, 032703.	0.7	0
115	Experimental demonstration of low laser-plasma instabilities in gas-filled spherical hohlraums at laser injection angle designed for ignition target. <i>Physical Review E</i> , 2017, 95, 031202.	0.8	28
116	Geometrical shock dynamics for magnetohydrodynamic fast shocks. <i>Journal of Fluid Mechanics</i> , 2017, 811, .	1.4	10
117	Measurement of residual carbon in chamber of Shenguang II laser facility. <i>Physics of Plasmas</i> , 2017, 24, 072707.	0.7	3
118	The Spatially Distributed Neutron Activation Diagnostic FNADs at the National Ignition Facility. <i>Fusion Science and Technology</i> , 2017, 72, 120-128.	0.6	37
119	Evaluation of turbulent mixing transition in a shock-driven variable-density flow. <i>Journal of Fluid Mechanics</i> , 2017, 831, 779-825.	1.4	50
120	An Experiment to Observe the Breit-Wheeler Process. <i>Springer Theses</i> , 2017, , 101-123.	0.0	0
121	Wide-range semiempirical equations of state of matter for numerical simulation on high-energy processes. <i>High Temperature</i> , 2017, 55, 585-610.	0.1	46
122	On the interaction of a planar shock with a three-dimensional light gas cylinder. <i>Journal of Fluid Mechanics</i> , 2017, 828, 289-317.	1.4	52
123	Interaction of cylindrically converging diffracted shock with uniform interface. <i>Physics of Fluids</i> , 2017, 29, .	1.6	19
124	Richtmyer-Meshkov instability of a flat interface subjected to a rippled shock wave. <i>Physical Review E</i> , 2017, 95, 013107.	0.8	24
125	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.	0.8	46
126	Ensemble simulations of inertial confinement fusion implosions. <i>Statistical Analysis and Data Mining</i> , 2017, 10, 230-237.	1.4	21



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127	Design of octahedral spherical hohlraum for CH Rev5 ignition capsule. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	9
129	Experimental study on a sinusoidal air/SF interface accelerated by a cylindrically converging shock. <i>Journal of Fluid Mechanics</i> , 2017, 826, 819-829.	1.4	27
130	High-Energy-Density Physics at the National Ignition Facility. <i>Annual Review of Nuclear and Particle Science</i> , 2017, 67, 213-230.	3.5	9
131	Effective suppression of parametric instabilities with decoupled broadband lasers in plasma. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	29
132	Energy loss of $\hat{\pm}$ -particle moving in warm dense deuterium plasma: Role of local field corrections. <i>Physics of Plasmas</i> , 2017, 24, 112710.	0.7	10
133	A pinhole camera for ultrahigh-intensity laser plasma experiments. <i>Review of Scientific Instruments</i> , 2017, 88, 113501.	0.6	8
134	A viscous quantum hydrodynamics model based on dynamic density functional theory. <i>Scientific Reports</i> , 2017, 7, 15352.	1.6	31
135	Containing intense laser light in circular cavity with magnetic trap door. <i>Applied Physics Letters</i> , 2017, 110, 111903.	1.5	5
136	Study on laser-irradiated Au plasmas by detailed configuration accounting atomic physics. <i>Physics of Plasmas</i> , 2017, 24, 102706.	0.7	6
137	Generation of high pressures by short-pulse low-energy laser irradiation. <i>Europhysics Letters</i> , 2017, 119, 35001.	0.7	3
138	Richtmyer-Meshkov instability of a thermal interface in a two-fluid plasma. <i>Journal of Fluid Mechanics</i> , 2017, 833, 332-363.	1.4	22
139	Measurement of a Richtmyer-Meshkov Instability at an Air-SF Interface in a Semiannular Shock Tube. <i>Physical Review Letters</i> , 2017, 119, 014501.	2.9	59
140	Nonlinear laser-plasma interactions. <i>Reviews of Modern Plasma Physics</i> , 2017, 1, 1.	2.2	36
142	Spherical wire arrays electrical explosion in water and glycerol. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	18
143	Measurements of the $Tm^{169}(n,2n)Tm^{168}$ cross section from threshold to 15 MeV. <i>Physical Review C</i> , 2017, 96, .	1.1	3
144	The big science of stockpile stewardship. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	3
145	Development of high resolution dual-energy KBA microscope with large field of view for RT-instability diagnostics at SG-III facility. <i>Optics Express</i> , 2017, 25, 2608.	1.7	13
146	Beam alignment based on two-dimensional power spectral density of a near-field image. <i>Optics Express</i> , 2017, 25, 26591.	1.7	4

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147	Ion temperature measurements of indirect-drive implosions with the neutron time-of-flight detector on SG-III laser facility. Review of Scientific Instruments, 2018, 89, 023504.	0.6	7
148	First Octahedral Spherical Hohlräum Energetics Experiment at the SGIII Laser Facility. Physical Review Letters, 2018, 120, 165001.	2.9	16
149	High coupling efficiency of foam spherical hohlraum driven by 2 $\mu\text{m}$ laser light. Physics of Plasmas, 2018, 25, .	0.7	6
150	Hollow wall to stabilize and enhance ignition hohlraums. Physics of Plasmas, 2018, 25, 012713.	0.7	7
151	Weakly nonlinear incompressible Rayleigh-Taylor instability in spherical and planar geometries. Physics of Plasmas, 2018, 25, 022701.	0.7	6
152	A GPU based iteration approach to efficiently evaluate radiation symmetry for laser driven inertial confinement fusion. Applied Mathematical Modelling, 2018, 59, 293-304.	2.2	1
153	A 2-MJ, 1014-W Laser System for DT Fusion – NIF: A Note in Celebration of the 75th Birthday of Prof. Theodore Haensch. , 2018, , 341-349.		0
154	Dispersion relation of quasi-static electromagnetic modes in relativistic plasmas. Physics of Plasmas, 2018, 25, .	0.7	1
155	Fabrication, Assembly, and Metrology of the Neutron Imaging Pinhole. Fusion Science and Technology, 2018, 73, 453-457.	0.6	2
156	Investigation of the cylindrical vacuum hohlraum energy in the first implosion experiment at the SGIII laser facility. Physics of Plasmas, 2018, 25, 022703.	0.7	10
157	Linear Analysis of Converging Richtmyer–Meshkov Instability in the Presence of an Azimuthal Magnetic Field. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	6
158	Dynamic high energy density plasma environments at the National Ignition Facility for nuclear science research. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 033003.	1.4	47
159	Laser ablation under different electron heat conduction models in inertial confinement fusion. High Energy Density Physics, 2018, 27, 12-17.	0.4	4
160	The high velocity, high adiabat, “Bigfoot” campaign and tests of indirect-drive implosion scaling. Physics of Plasmas, 2018, 25, .	0.7	90
161	Wide range scaling laws for radiation driven shock speed, wall albedo and ablation parameters for high-Z materials. High Energy Density Physics, 2018, 27, 1-11.	0.4	9
162	Thin layer model for nonlinear evolution of the Rayleigh-Taylor instability. Physics of Plasmas, 2018, 25, .	0.7	4
163	A plasma amplifier to combine multiple beams at NIF. Physics of Plasmas, 2018, 25, .	0.7	17
164	Surface-initiated phase transition in solid hydrogen under the high-pressure compression. Applied Physics Letters, 2018, 112, 111602.	1.5	2

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165	Review of experimental Richtmyer–Meshkov instability in shock tube: From simple to complex. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 2830-2849.	1.1	37
166	Experimental and simulation studies on radiative properties of uranium planar target coated with an ultrathin aluminum layer. Nuclear Fusion, 2018, 58, 026020.	1.6	3
167	Mach number effect on the instability of a planar interface subjected to a rippled shock. Physical Review E, 2018, 98, .	0.8	4
168	Wide-range equation of state for silver. Journal of Physics: Conference Series, 2018, 946, 012081.	0.3	1
169	X-ray spectrometer throughput model for (selected) flat Bragg crystal spectrometers on laser plasma facilities. Review of Scientific Instruments, 2018, 89, 10F119.	0.6	13
171	Interaction of planar shock wave with three-dimensional heavy cylindrical bubble. Physics of Fluids, 2018, 30, .	1.6	29
172	On the Problem of Thermonuclear Ignition and Burning in the NIF Laser: Ignition with Capsules Taking into Account the Influence of the Hohlraum Radiation on Implosion. Journal of Experimental and Theoretical Physics, 2018, 127, 786-790.	0.2	1
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