

# P M Celliers

## List of Publications by Year in descending order

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267  
papers

13,076  
citations

15504

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273  
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273  
docs citations

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times ranked

4625  
citing authors



#	ARTICLE	IF	CITATIONS
19	High-precision shock equation of state measurements for metallic fluid carbon between 15 and 20 Mbar. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
20	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. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	18
21	Principal factors in performance of indirect-drive laser fusion experiments. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
22	Deficiencies in compression and yield in x-ray-driven implosions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	12
23	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
24	Benchmarking boron carbide equation of state using computation and experiment. <i>Physical Review E</i> , 2020, 102, 053203.	2.1	6
25	Measurement of the sound velocity and Grüneisen parameter of polystyrene at inertial confinement fusion conditions. <i>Physical Review B</i> , 2020, 102, .	3.2	9
26	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
27	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
28	Yield and compression trends and reproducibility at NIF*. <i>High Energy Density Physics</i> , 2020, 36, 100755.	1.5	25
29	Experiments to explore the influence of pulse shaping at the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, 112708.	1.9	11
30	Hugoniot, sound velocity, and shock temperature of MgO to 2300 GPa. <i>Physical Review B</i> , 2019, 100, .	3.2	17
31	Shock Compression of Liquid Deuterium up to 1 TPa. <i>Physical Review Letters</i> , 2019, 122, 255702.	7.8	26
32	Measurement of the sound speed in dense fluid deuterium along the cryogenic liquid Hugoniot. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	10
33	Direct-drive measurements of laser-imprint-induced shock velocity nonuniformities. <i>Physical Review E</i> , 2019, 99, 063208.	2.1	15
34	Developing quartz and molybdenum as impedance-matching standards in the 100-Mbar regime. <i>Physical Review B</i> , 2019, 99, .	3.2	15
35	Response to Comment on "Insulator-metal transition in dense fluid deuterium". <i>Science</i> , 2019, 363, .	12.6	5
36	Breakdown of Fermi Degeneracy in the Simplest Liquid Metal. <i>Physical Review Letters</i> , 2019, 122, 085001.	7.8	6

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37	Measuring the shock impedance mismatch between high-density carbon and deuterium at the National Ignition Facility. <i>Physical Review B</i> , 2018, 97, .	3.2	21
38	Equation of state of iron under core conditions of large rocky exoplanets. <i>Nature Astronomy</i> , 2018, 2, 452-458.	10.1	71
39	Experimental evidence for superionic water ice using shock compression. <i>Nature Physics</i> , 2018, 14, 297-302.	16.7	165
40	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
41	Probing the seeding of hydrodynamic instabilities from nonuniformities in ablator materials using 2D velocimetry. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	32
42	Using a 2-shock 1D platform at NIF to measure the effect of convergence on mix and symmetry. <i>Physics of Plasmas</i> , 2018, 25, 102702.	1.9	6
43	Hydrodynamic instability seeding by oxygen nonuniformities in glow discharge polymer inertial fusion ablaters. <i>Physical Review E</i> , 2018, 98, .	2.1	10
44	Thermodynamic properties of $\text{MgSiO}_3$ at super-Earth mantle conditions. <i>Physical Review B</i> , 2018, 97, .	3.2	28
45	Implosion shape control of high-velocity, large case-to-capsule ratio beryllium ablaters at the National Ignition Facility. <i>Physics of Plasmas</i> , 2018, 25, 072708.	1.9	16
46	A Review of Equation-of-State Models for Inertial Confinement Fusion Materials. <i>High Energy Density Physics</i> , 2018, 28, 7-24.	1.5	54
47	X-ray diffraction of ramp-compressed aluminum to 475 GPa. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	17
48	Theoretical and experimental investigation of the equation of state of boron plasmas. <i>Physical Review E</i> , 2018, 98, 023205.	2.1	23
49	Insulator-metal transition in dense fluid deuterium. <i>Science</i> , 2018, 361, 677-682.	12.6	108
50	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
51	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
52	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
53	Mix and hydrodynamic instabilities on NIF. <i>Journal of Instrumentation</i> , 2017, 12, C06001-C06001.	1.2	21
54	Measurement of Body-Centered-Cubic Aluminum at 475 GPa. <i>Physical Review Letters</i> , 2017, 119, 175702.	7.8	37

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55	Shock equation of state of $\text{LiH}$ to 1.1 TPa. Physical Review B, 2017, 96, .	3.2	11
56	Performance of beryllium targets with full-scale capsules in low-fill 6.72-mm hohlraums on the National Ignition Facility. Physics of Plasmas, 2017, 24, .	1.9	14
57	Compression Freezing Kinetics of Water to Ice VII. Physical Review Letters, 2017, 119, 025701.	7.8	60
58	Hugoniot and release measurements in diamond shocked up to 26 Mbar. Physical Review B, 2017, 95, .	3.2	32
59	Ghost fringe removal techniques using Lissajous data presentation. AIP Conference Proceedings, 2017, , .	0.4	1
60	NIF Rugby High Foot Campaign from the design side. Journal of Physics: Conference Series, 2016, 717, 012035.	0.4	4
61	Hydrodynamic instabilities and mix studies on NIF: predictions, observations, and a path forward. Journal of Physics: Conference Series, 2016, 688, 012090.	0.4	3
62	Performance of indirectly driven capsule implosions on NIF using adiabat-shaping. Journal of Physics: Conference Series, 2016, 717, 012045.	0.4	0
63	Ghost fringe removal techniques using Lissajous data presentation. Review of Scientific Instruments, 2016, 87, 033106.	1.3	7
64	X-ray scattering measurements of dissociation-induced metallization of dynamically compressed deuterium. Nature Communications, 2016, 7, 11189.	12.8	27
65	Equation of state, adiabatic sound speed, and Grüneisen coefficient of boron carbide along the principal Hugoniot to 700 GPa. Physical Review B, 2016, 94, .	3.2	24
66	Shock-wave equation-of-state measurements in fused silica up to 1600 GPa. Journal of Applied Physics, 2016, 119, .	2.5	26
67	First beryllium capsule implosions on the National Ignition Facility. Physics of Plasmas, 2016, 23, 056310.	1.9	37
68	The near vacuum hohlraum campaign at the NIF: A new approach. Physics of Plasmas, 2016, 23, .	1.9	51
69	Performance of indirectly driven capsule implosions on the National Ignition Facility using adiabat-shaping. Physics of Plasmas, 2016, 23, 056303.	1.9	38
70	Experimental results of radiation-driven, layered deuterium-tritium implosions with adiabat-shaped drives at the National Ignition Facility. Physics of Plasmas, 2016, 23, .	1.9	27
71	Integrated modeling of cryogenic layered highfoot experiments at the NIF. Physics of Plasmas, 2016, 23, .	1.9	59
72	Absolute calibration of the OMEGA streaked optical pyrometer for temperature measurements of compressed materials. Review of Scientific Instruments, 2016, 87, 114903.	1.3	34

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73	Measurements of the sound velocity of shock-compressed liquid silica to 1100â€™GPa. Journal of Applied Physics, 2016, 120, .	2.5	14
74	Inertially confined fusion plasmas dominated by alpha-particle self-heating. Nature Physics, 2016, 12, 800-806.	16.7	144
75	A simulation-based and analytic analysis of the off-Hugoniot response of alternative inertial confinement fusion ablator materials. High Energy Density Physics, 2016, 20, 23-28.	1.5	15
76	Development of Improved Radiation Drive Environment for High Foot Implosions at the National Ignition Facility. Physical Review Letters, 2016, 117, 225002.	7.8	61
77	X-ray drive of beryllium capsule implosions at the National Ignition Facility. Journal of Physics: Conference Series, 2016, 717, 012058.	0.4	3
78	Symmetry tuning of a near one-dimensional 2-shock platform for code validation at the National Ignition Facility. Physics of Plasmas, 2016, 23, .	1.9	33
79	National Ignition Facility Laser System Performance. Fusion Science and Technology, 2016, 69, 366-394.	1.1	70
80	Advances in shock timing experiments on the National Ignition Facility. Journal of Physics: Conference Series, 2016, 688, 012092.	0.4	2
81	Off-Hugoniot characterization of alternative inertial confinement fusion ablator materials.. Journal of Physics: Conference Series, 2016, 717, 012038.	0.4	4
82	Equations of State for Ablator Materials in Inertial Confinement Fusion Simulations. Journal of Physics: Conference Series, 2016, 717, 012082.	0.4	13
83	Analysis of laser shock experiments on precompressed samples using a quartz reference and application to warm dense hydrogen and helium. Journal of Applied Physics, 2015, 118, .	2.5	69
84	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
85	A robust in-situ warp-correction algorithm for VISAR streak camera data at the National Ignition Facility. Proceedings of SPIE, 2015, , .	0.8	3
86	Upgrades to the VISAR-streaked optical pyrometer (SOP) system on NIF. Proceedings of SPIE, 2015, , .	0.8	2
87	Gated photocathode design for the P510 electron tube used in the National Ignition Facility (NIF) optical streak cameras. Proceedings of SPIE, 2015, , .	0.8	2
88	Shock compression of stishovite and melting of silica at planetary interior conditions. Science, 2015, 347, 418-420.	12.6	123
89	High-density carbon capsule experiments on the national ignition facility. Physical Review E, 2015, 91, 021101.	2.1	38
90	Thin Shell, High Velocity Inertial Confinement Fusion Implosions on the National Ignition Facility. Physical Review Letters, 2015, 114, 145004.	7.8	56

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91	of Plasmas, 2015, 22, 056318.	1.9	80
92	Adiabat-shaping in indirect drive inertial confinement fusion. Physics of Plasmas, 2015, 22, 052702.	1.9	31
93	Demonstration of High Performance in Layered Deuterium-Tritium Capsule Implosions in Uranium Hohlraums at the National Ignition Facility. Physical Review Letters, 2015, 115, 055001.	7.8	101
94	First results of radiation-driven, layered deuterium-tritium implosions with a 3-shock adiabat-shaped drive at the National Ignition Facility. Physics of Plasmas, 2015, 22, .	1.9	29
95	Hohlraum glint and laser pre-pulse detector for NIF experiments using velocity interferometer system for any reflector. Review of Scientific Instruments, 2014, 85, 11E608.	1.3	0
96	Holographic and time-resolving ability of pulse-pair two-dimensional velocity interferometry. Review of Scientific Instruments, 2014, 85, 063115.	1.3	4
97	Hugoniot experiments with unsteady waves. Journal of Applied Physics, 2014, 116, .	2.5	23
98	Progress in hohlraum physics for the National Ignition Facility. Physics of Plasmas, 2014, 21, .	1.9	62
99	Fuel gain exceeding unity in an inertially confined fusion implosion. Nature, 2014, 506, 343-348.	27.8	742
100	Shock timing measurements and analysis in deuterium-tritium-ice layered capsule implosions on NIF. Physics of Plasmas, 2014, 21, 022703.	1.9	27
101	Dynamic symmetry of indirectly driven inertial confinement fusion capsules on the National Ignition Facility. Physics of Plasmas, 2014, 21, .	1.9	81
102	High-density carbon ablator experiments on the National Ignition Facility. Physics of Plasmas, 2014, 21, .	1.9	116
103	The high-foot implosion campaign on the National Ignition Facility. Physics of Plasmas, 2014, 21, .	1.9	149
104	Ramp compression of diamond to five terapascals. Nature, 2014, 511, 330-333.	27.8	195
105	Early time implosion symmetry from two-axis shock-timing measurements on indirect drive NIF experiments. Physics of Plasmas, 2014, 21, .	1.9	24
106	Numerical refocusing of 2d-VISAR data. Journal of Physics: Conference Series, 2014, 500, 142013.	0.4	3
107	Holographic Behavior in Ultrashort Pulse-pair 2d-Velocimetry. , 2014, , .		0
108	Progress towards ignition on the National Ignition Facility. Physics of Plasmas, 2013, 20, .	1.9	259

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109	Measurement of High-Pressure Shock Waves in Cryogenic Deuterium-Tritium Ice Layered Capsule Implosions on NIF. Physical Review Letters, 2013, 111, 065003.	7.8	28
110	Onset of Hydrodynamic Mix in High-Velocity, Highly Compressed Inertial Confinement Fusion Implosions. Physical Review Letters, 2013, 111, 085004.	7.8	215
111	Heterogeneous flow and brittle failure in shock-compressed silicon. Journal of Applied Physics, 2013, 114, .	2.5	23
112	Performance of High-Convergence, Layered DT Implosions with Extended-Duration Pulses at the National Ignition Facility. Physical Review Letters, 2013, 111, 215001.	7.8	47
113	Ramp compression of iron to 273 GPa. Journal of Applied Physics, 2013, 114, .	2.5	49
114	Nuclear imaging of the fuel assembly in ignition experiments. Physics of Plasmas, 2013, 20, 056320.	1.9	65
115	The effect of laser pulse shape variations on the adiabat of NIF capsule implosions. Physics of Plasmas, 2013, 20, .	1.9	40
116	Progress toward ignition at the National Ignition Facility. Plasma Physics and Controlled Fusion, 2013, 55, 124015.	2.1	23
117	Operational experience with optical streak cameras at the National Ignition Facility. Proceedings of SPIE, 2013, , .	0.8	3
118	Progress in direct-drive inertial confinement fusion. EPJ Web of Conferences, 2013, 59, 01004.	0.3	0
119	Ignition tuning for the National Ignition Campaign. EPJ Web of Conferences, 2013, 59, 01003.	0.3	1
120	Hohlraum designs for high velocity implosions on NIF. EPJ Web of Conferences, 2013, 59, 02002.	0.3	2
121	Shock timing on the National Ignition Facility: First experiments. EPJ Web of Conferences, 2013, 59, 02004.	0.3	1
122	Shock timing on the National Ignition Facility: The first precision tuning series. EPJ Web of Conferences, 2013, 59, 02005.	0.3	1
123	Line-imaging Velocimetry for Shock Diagnostics (VISAR*). , 2013, , .		0
124	Cryogenic thermonuclear fuel implosions on the National Ignition Facility. Physics of Plasmas, 2012, 19, .	1.9	95
125	Two-dimensional imaging velocity interferometry: Technique and data analysis. AIP Conference Proceedings, 2012, , .	0.4	3
126	Assembly of High-Areal-Density Deuterium-Tritium Fuel from Indirectly Driven Cryogenic Implosions. Physical Review Letters, 2012, 108, 215005.	7.8	57

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127	Equation of state of CH <sub>1.36</sub> : First-principles molecular dynamics simulations and shock-and-release wave speed measurements. Physical Review B, 2012, 86, .	3.2	57
128	Phase Transformations and Metallization of Magnesium Oxide at High Pressure and Temperature. Science, 2012, 338, 1330-1333.	12.6	156
129	Hard x-ray (>100 keV) imager to measure hot electron preheat for indirectly driven capsule implosions on the NIF. Review of Scientific Instruments, 2012, 83, 10E508.	1.3	8
130	Implosion dynamics measurements at the National Ignition Facility. Physics of Plasmas, 2012, 19, .	1.9	125
131	Shock timing experiments on the National Ignition Facility: Initial results and comparison with simulation. Physics of Plasmas, 2012, 19, .	1.9	115
132	Extended data set for the equation of state of warm dense hydrogen isotopes. Physical Review B, 2012, 86, .	3.2	95
133	A high-resolution integrated model of the National Ignition Campaign cryogenic layered experiments. Physics of Plasmas, 2012, 19, .	1.9	108
134	Progress in the indirect-drive National Ignition Campaign. Plasma Physics and Controlled Fusion, 2012, 54, 124026.	2.1	38
135	Evidence for a Phase Transition in Silicate Melt at Extreme Pressure and Temperature Conditions. Physical Review Letters, 2012, 108, 065701.	7.8	61
136	Precision Shock Tuning on the National Ignition Facility. Physical Review Letters, 2012, 108, 215004.	7.8	83
137	The velocity campaign for ignition on NIF. Physics of Plasmas, 2012, 19, .	1.9	76
138	Direct Measurement of Energetic Electrons Coupling to an Imploding Low-Adiabatic Inertial Confinement Fusion Capsule. Physical Review Letters, 2012, 108, 135006.	7.8	44
139	Two-dimensional imaging velocity interferometry: Data analysis techniques. Review of Scientific Instruments, 2012, 83, 043116.	1.3	24
140	Velocity and Timing of Multiple Spherically Converging Shock Waves in Liquid Deuterium. Physical Review Letters, 2011, 106, 195005.	7.8	54
141	Capsule implosion optimization during the indirect-drive National Ignition Campaign. Physics of Plasmas, 2011, 18, .	1.9	131
142	Progress towards ignition on the National Ignition Facility. Nuclear Fusion, 2011, 51, 094024.	3.5	35
143	Refractive index of lithium fluoride ramp compressed to 800 GPa. Journal of Applied Physics, 2011, 109, .	2.5	58
144	The direct measurement of ablation pressure driven by 351-nm laser radiation. Journal of Applied Physics, 2011, 110, .	2.5	43

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145	Multiple spherically converging shock waves in liquid deuterium. <i>Physics of Plasmas</i> , 2011, 18, 092706.	1.9	34
146	Strength effects in diamond under shock compression from 0.1 to 1 TPa. <i>Physical Review B</i> , 2010, 81, .	3.2	87
147	Melting temperature of diamond at ultrahigh pressure. <i>Nature Physics</i> , 2010, 6, 40-43.	16.7	210
148	A high-resolution two-dimensional imaging velocimeter. <i>Review of Scientific Instruments</i> , 2010, 81, 035101.	1.3	51
149	Convergent ablator performance measurements. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	80
150	Streaked radiography measurements of convergent ablator performance (invited). <i>Review of Scientific Instruments</i> , 2010, 81, 10E304.	1.3	27
151	Experimental validation of a diagnostic technique for tuning the fourth shock timing on National Ignition Facility. <i>Physics of Plasmas</i> , 2010, 17, 012703.	1.9	24
152	The effect of condensates and inner coatings on the performance of vacuum hohlraum targets. <i>Physics of Plasmas</i> , 2010, 17, 032701.	1.9	6
153	Capsule performance optimization in the National Ignition Campaign. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	51
154	High-precision measurements of the equation of state of hydrocarbons at $\sim 10$ Mbar using laser-driven shock waves. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	119
155	Insulator-to-Conducting Transition in Dense Fluid Helium. <i>Physical Review Letters</i> , 2010, 104, 184503.	7.8	93
156	Pulse-dilation enhanced gated optical imager with 5 ps resolution (invited). <i>Review of Scientific Instruments</i> , 2010, 81, 10E317.	1.3	79
157	Laser-driven single shock compression of fluid deuterium from 45 to 220 GPa. <i>Physical Review B</i> , 2009, 79, .	3.2	138
158	Demonstration of the shock-timing technique for ignition targets on the National Ignition Facility. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	82
159	Diamond spheres for inertial confinement fusion. <i>Nuclear Fusion</i> , 2009, 49, 112001.	3.5	94
160	Shock Experiments on Pre-Compressed Fluid Helium. , 2009, , .		5
161	Recreating core states of giant planets in the laboratory. , 2009, , .		0
162	MEASUREMENTS OF THE RELEASE OF ALPHA QUARTZ: A NEW STANDARD FOR IMPEDANCE-MATCHING EXPERIMENTS. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	4

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163	High-precision measurements of the diamond Hugoniot in and above the melt region. Physical Review B, 2008, 78, .	3.2	82
164	Design of a streaked radiography instrument for ICF ablator tuning measurements. Review of Scientific Instruments, 2008, 79, 10E913.	1.3	3
165	Hugoniot Data for Helium in the Ionization Regime. Physical Review Letters, 2008, 100, 124503.	7.8	103
166	Experimental studies of ICF indirect-drive Be and high density C candidate ablaters. Journal of Physics: Conference Series, 2008, 112, 022004.	0.4	13
167	Quasi-isentropic material property studies at extreme pressures: from omega to NIF. Journal of Physics: Conference Series, 2008, 112, 042024.	0.4	11
168	Achieving high-density states through shock-wave loading of precompressed samples. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9172-9177.	7.1	103
169	High planarity x-ray drive for ultrafast shockless-compression experiments. Physics of Plasmas, 2007, 14, 057105.	1.9	27
170	Optical alignment techniques for line-imaging velocity interferometry and line-imaging self-emission of targets at the National Ignition Facility (NIF). , 2007, , .		1
171	Streaked optical pyrometer system for laser-driven shock-wave experiments on OMEGA. Review of Scientific Instruments, 2007, 78, 034903.	1.3	143
172	Stiff Response of Aluminum under Ultrafast Shockless Compression to 110ÂGPA. Physical Review Letters, 2007, 98, 065701.	7.8	87
173	The first target experiments on the National Ignition Facility. European Physical Journal D, 2007, 44, 273-281.	1.3	11
174	Overview of the line-imaging VISAR diagnostic at the National Ignition Facility (NIF). , 2007, , .		7
175	Dissociation of Liquid Silica at High Pressures and Temperatures. Physical Review Letters, 2006, 97, 025502.	7.8	158
176	X-ray preheating of window materials in direct-drive shock-wave timing experiments. Physics of Plasmas, 2006, 13, 122702.	1.9	29
177	Laser-driven shock experiments on precompressed water: Implications for œœgiant planets. Journal of Chemical Physics, 2006, 125, 014701.	3.0	77
178	Shock-timing experiments using double-pulse laser irradiation. Physics of Plasmas, 2006, 13, 056303.	1.9	31
179	The first experiments on the national ignition facility. European Physical Journal Special Topics, 2006, 133, 43-45.	0.2	1
180	Hohlraum X-ray deposition in indirect-drive ICF ablator materials. European Physical Journal Special Topics, 2006, 133, 179-181.	0.2	1

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181	Overview of the line-imaging VISAR Diagnostic at the National Ignition Facility (NIF). , 2006, , .		1
182	Laser driven quasi-isentropic compression experiments (ICE) for dynamically loading materials at high strain rates. European Physical Journal Special Topics, 2006, 134, 529-534.	0.2	0
183	Combining a thermal-imaging diagnostic with an existing imaging VISAR diagnostic at the National Ignition Facility (NIF). , 2005, , .		5
184	Imaging VISAR diagnostic for the National Ignition Facility (NIF). , 2005, , .		14
185	Shock compression of quartz in the high-pressure fluid regime. Physics of Plasmas, 2005, 12, 082702.	1.9	89
186	Systematic uncertainties in shock-wave impedance-match analysis and the high-pressure equation of state of Al. Journal of Applied Physics, 2005, 98, 113529.	2.5	75
187	Properties of fluid deuterium under double-shock compression to several Mbar. Physics of Plasmas, 2004, 11, L49-L52.	1.9	58
188	Shock Compressing Diamond to a Conducting Fluid. Physical Review Letters, 2004, 93, 195506.	7.8	81
189	High pressures generated by laser driven shocks: applications to planetary physics. Nuclear Fusion, 2004, 44, S208-S214.	3.5	30
190	Line-imaging velocimeter for shock diagnostics at the OMEGA laser facility. Review of Scientific Instruments, 2004, 75, 4916-4929.	1.3	394
191	Electronic conduction in shock-compressed water. Physics of Plasmas, 2004, 11, L41-L44.	1.9	96
192	Coupling static and dynamic compressions: first measurements in dense hydrogen. High Pressure Research, 2004, 24, 25-31.	1.2	96
193	Fielding of an imaging VISAR diagnostic at the National Ignition Facility (NIF). , 2004, 5523, 148.		9
194	Shock-Induced Transformation of Al <sub>2</sub> O <sub>3</sub> and LiF into Semiconducting Liquids. Physical Review Letters, 2003, 91, 035502.	7.8	97
195	Quantitative second-harmonic generation microscopy in collagen. Applied Optics, 2003, 42, 5209.	2.1	144
196	Effect of structural modification on second harmonic generation in collagen. , 2003, , .		6
197	<title>Imaging collagen orientation using polarization-modulated second harmonic generation</title>. , 2002, , .		12
198	Equation of State Data for Iron at Pressures beyond 10 Mbar. Physical Review Letters, 2002, 88, 235502.	7.8	73

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199	Polarization-Modulated Second Harmonic Generation in Collagen. <i>Biophysical Journal</i> , 2002, 82, 3330-3342.	0.5	375
200	Shock timing technique for the National Ignition Facility. <i>Physics of Plasmas</i> , 2001, 8, 2245-2250.	1.9	86
201	Temperature Measurements of Shock Compressed Liquid Deuterium up to 230 GPa. <i>Physical Review Letters</i> , 2001, 87, 165504.	7.8	86
202	Equation of state of water in the megabar range. <i>Laser and Particle Beams</i> , 2001, 19, 111-115.	1.0	9
203	<title>Preliminary results on the EOS of water in the megabar range</title>. , 2001, , .		0
204	Experiments Using Laser-driven Shockwaves for EOS and Transport Measurements. <i>Contributions To Plasma Physics</i> , 2001, 41, 239-242.	1.1	10
205	Influence of pulse duration on ultrashort laser pulse ablation of biological tissues. <i>Journal of Biomedical Optics</i> , 2001, 6, 332.	2.6	61
206	Interferometric and Chirped Optical Probe Techniques for High-Pressure Equation-of-State Measurements. <i>Astrophysical Journal, Supplement Series</i> , 2000, 127, 333-337.	7.7	3
207	Equation of State and Material Property Measurements of Hydrogen Isotopes at the High-Pressure, High-Temperature Insulator-Metal Transition. <i>Astrophysical Journal, Supplement Series</i> , 2000, 127, 267-273.	7.7	26
208	Measurement of localized heating in the focus of an optical trap. <i>Applied Optics</i> , 2000, 39, 3396.	2.1	39
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