Johan A Frenje

List of Publications by Year
in descending order

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254 papers	9,935 citations	24978 57 h-index	56606 83 g-index
260 all docs	260 docs citations	260 times ranked	2771 citing authors

#	Article	IF	Citations
1	Progress towards ignition on the National Ignition Facility. Physics of Plasmas, 2013, 20, .	0.7	259
2	Burning plasma achieved in inertial fusion. Nature, 2022, 601, 542-548.	13.7	233
3	Spectrometry of charged particles from inertial-confinement-fusion plasmas. Review of Scientific Instruments, 2003, 74, 975-995.	0.6	214
4	MeasuringEandBFields in Laser-Produced Plasmas with Monoenergetic Proton Radiography. Physical Review Letters, 2006, 97, 135003.	2.9	192
5	Proton Radiography of Inertial Fusion Implosions. Science, 2008, 319, 1223-1225.	6.0	157
6	Observation of Megagauss-Field Topology Changes due to Magnetic Reconnection in Laser-Produced Plasmas. Physical Review Letters, 2007, 99, 055001.	2.9	151
7	The high-foot implosion campaign on the National Ignition Facility. Physics of Plasmas, 2014, 21, .	0.7	149
8	The experimental plan for cryogenic layered target implosions on the National Ignition Facilityâ€"The inertial confinement approach to fusion. Physics of Plasmas, 2011, 18, .	0.7	148
9	Inertially confined fusion plasmas dominated by alpha-particle self-heating. Nature Physics, 2016, 12, 800-806.	6.5	144
10	Improving the hot-spot pressure and demonstrating ignition hydrodynamic equivalence in cryogenic deuteriumâ€"tritium implosions on OMEGA. Physics of Plasmas, 2014, 21, .	0.7	139
11	Implosion dynamics measurements at the National Ignition Facility. Physics of Plasmas, 2012, 19, .	0.7	125
12	Neutron spectrometryâ€"An essential tool for diagnosing implosions at the National Ignition Facility (invited). Review of Scientific Instruments, 2012, 83, 10D308.	0.6	117
13	High-density carbon ablator experiments on the National Ignition Facility. Physics of Plasmas, 2014, 21, .	0.7	116
14	Demonstration of the Highest Deuterium-Tritium Areal Density Using Multiple-Picket Cryogenic Designs on OMEGA. Physical Review Letters, 2010, 104, 165001.	2.9	111
15	A high-resolution integrated model of the National Ignition Campaign cryogenic layered experiments. Physics of Plasmas, 2012, 19, .	0.7	108
16	Progress in direct-drive inertial confinement fusion. Physics of Plasmas, 2008, 15, .	0.7	107
17	Measurement of Charged-Particle Stopping in Warm Dense Plasma. Physical Review Letters, 2015, 114, 215002.	2.9	107
18	Tripled yield in direct-drive laser fusion through statistical modelling. Nature, 2019, 565, 581-586.	13.7	103

#	Article	IF	Citations
19	Demonstration of High Performance in Layered Deuterium-Tritium Capsule Implosions in Uranium Hohlraums at the National Ignition Facility. Physical Review Letters, 2015, 115, 055001.	2.9	101
20	Observation of the Alpha Particle â€œKnock-Onâ€•Neutron Emission from Magnetically Confined DT Fusion Plasmas. Physical Review Letters, 2000, 85, 1246-1249.	2.9	96
21	Performance of direct-drive cryogenic targets on OMEGA. Physics of Plasmas, 2008, 15, .	0.7	92
22	Laser-Driven Magnetic-Flux Compression in High-Energy-Density Plasmas. Physical Review Letters, 2009, 103, 215004.	2.9	91
23	Probing high areal-density cryogenic deuterium-tritium implosions using downscattered neutron spectra measured by the magnetic recoil spectrometer. Physics of Plasmas, 2010, 17, .	0.7	91
24	The high velocity, high adiabat, â€œBigfootâ€•campaign and tests of indirect-drive implosion scaling. Physics of Plasmas, 2018, 25, .	0.7	90
25	Neutron activation diagnostics at the National Ignition Facility (invited). Review of Scientific Instruments, 2012, 83, 10D313.	0.6	88
26	Design of inertial fusion implosions reaching the burning plasma regime. Nature Physics, 2022, 18, 251-258.	6.5	87
27	Initial experiments on the shock-ignition inertial confinement fusion concept. Physics of Plasmas, 2008, 15, .	0.7	86
28	Charged-Particle Probing of X-rayâ€"Driven Inertial-Fusion Implosions. Science, 2010, 327, 1231-1235.	6.0	86
29	Monoenergetic-Proton-Radiography Measurements of Implosion Dynamics in Direct-Drive Inertial-Confinement Fusion. Physical Review Letters, 2008, 100, 225001.	2.9	85
30	Core performance and mix in direct-drive spherical implosions with high uniformity. Physics of Plasmas, 2001, 8, 2251-2256.	0.7	84
31	Development of nuclear diagnostics for the National Ignition Facility (invited). Review of Scientific Instruments, 2006, 77, 10E715.	0.6	84
32	Precision Shock Tuning on the National Ignition Facility. Physical Review Letters, 2012, 108, 215004.	2.9	83
33	Production of neutrons up to 18 MeV in high-intensity, short-pulse laser matter interactions. Physics of Plasmas, 2011, 18, .	0.7	80
34	First measurements of the absolute neutron spectrum using the magnetic recoil spectrometer at OMEGA (invited). Review of Scientific Instruments, 2008, 79, 10E502.	0.6	78
35	Spherical shock-ignition experiments with the 40 + 20-beam configuration on OMEGA. Physics of Plasmas, 2012, 19, .	0.7	78
36	Exploration of the Transition from the Hydrodynamiclike to the Strongly Kinetic Regime in Shock-Driven Implosions. Physical Review Letters, 2014, 112, 185001.	2.9	77

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37	Absolute measurements of neutron yields from DD and DT implosions at the OMEGA laser facility using CR-39 track detectors. Review of Scientific Instruments, 2002, 73, 2597-2605.	0.6	75
38	Demonstration of Fuel Hot-Spot Pressure in Excess of 50ÂGbar for Direct-Drive, Layered Deuterium-Tritium Implosions on OMEGA. Physical Review Letters, 2016, 117, 025001.	2.9	72
39	Role of Hot-Electron Preheating in the Compression of Direct-Drive Imploding Targets with Cryogenic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">D</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Ablators. Physical Review Letters, 2008, 100, 185005.	2.9	69
40	Observations of Electromagnetic Fields and Plasma Flow in Hohlraums with Proton Radiography. Physical Review Letters, 2009, 102, 205001.	2.9	69
41	Plasma-Density Determination from X-Ray Radiography of Laser-Driven Spherical Implosions. Physical Review Letters, 2009, 102, 185004.	2.9	68
42	Observation of a Reflected Shock in an Indirectly Driven Spherical Implosion at the National Ignition Facility. Physical Review Letters, 2014, 112, 225002.	2.9	68
43	Ion Thermal Decoupling and Species Separation in Shock-Driven Implosions. Physical Review Letters, 2015, 114, 025001.	2.9	67
44	The response of CR-39 nuclear track detector to 1â€“9 MeV protons. Review of Scientific Instruments, 2011, 82, 103303.	0.6	66
45	Nuclear imaging of the fuel assembly in ignition experiments. Physics of Plasmas, 2013, 20, 056320.	0.7	65
46	First Measurements of Rayleigh-Taylor-Induced Magnetic Fields in Laser-Produced Plasmas. Physical Review Letters, 2012, 108, 255006.	2.9	64
47	Measurements of Ion Stopping Around the Bragg Peak in High-Energy-Density Plasmas. Physical Review Letters, 2015, 115, 205001.	2.9	64
48	Neutron emission spectroscopy at JETâ€"Results from the magnetic proton recoil spectrometer (invited). Review of Scientific Instruments, 2001, 72, 759-766.	0.6	61
49	Evidence for Stratification of Deuterium-Tritium Fuel in Inertial Confinement Fusion Implosions. Physical Review Letters, 2012, 108, 075002.	2.9	61
50	Tests of the hydrodynamic equivalence of direct-drive implosions with different D2 and He3 mixtures. Physics of Plasmas, 2006, 13, 052702.	0.7	60
51	Hydrodynamic instability growth and mix experiments at the National Ignition Facility. Physics of Plasmas, 2014, 21, .	0.7	60
52	Measurements of an Ablator-Gas Atomic Mix in Indirectly Driven Implosions at the National Ignition Facility. Physical Review Letters, 2014, 112, 025002.	2.9	60
53	Charged-particle acceleration and energy loss in laser-produced plasmas. Physics of Plasmas, 2000, 7, 5106-5117.	0.7	59
54	The magnetic recoil spectrometer for measurements of the absolute neutron spectrum at OMEGA and the NIF. Review of Scientific Instruments, 2013, 84, 043506.	0.6	59

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55	Monoenergetic proton backlighter for measuring E and B fields and for radiographing implosions and high-energy density plasmas (invited). Review of Scientific Instruments, 2006, 77, 10E725.	0.6	58
56	First Observations of Nonhydrodynamic Mix at the Fuel-Shell Interface in Shock-Driven Inertial Confinement Implosions. Physical Review Letters, 2014, 112, 135001.	2.9	58
57	Improved Performance of High Areal Density Indirect Drive Implosions at the National Ignition Facility using a Four-Shock Adiabat Shaped Drive. Physical Review Letters, 2015, 115, 105001.	2.9	58
58	Assembly of High-Areal-Density Deuterium-Tritium Fuel from Indirectly Driven Cryogenic Implosions. Physical Review Letters, 2012, 108, 215005.	2.9	57
59	Thin Shell, High Velocity Inertial Confinement Fusion Implosions on the National Ignition Facility. Physical Review Letters, 2015, 114, 145004.	2.9	56
60	Cryogenic DT and D2 targets for inertial confinement fusion. Physics of Plasmas, 2007, 14, 058101.	0.7	55
61	A laboratory study of asymmetric magnetic reconnection in strongly driven plasmas. Nature Communications, 2015, 6, 6190.	5.8	55
62	Dâ€“3He proton spectra for diagnosing shell ÏR and fuel Ti of imploded capsules at OMEGA. Physics of Plasmas, 2000, 7, 2578-2584.	0.7	54
63	Effects of Fuel-Shell Mix upon Direct-Drive, Spherical Implosions on OMEGA. Physical Review Letters, 2002, 89, 165002.	2.9	53
64		0.7	52
65	A neutron spectrometer for precise measurements of DT neutrons from 10 to 18 MeV at OMEGA and the National Ignition Facility. Review of Scientific Instruments, 2001, 72, 854-858.	0.6	50
66	First results from cryogenic target implosions on OMEGA. Physics of Plasmas, 2002, 9, 2195-2201.	0.7	49
67	High-Areal-Density Fuel Assembly in Direct-Drive Cryogenic Implosions. Physical Review Letters, 2008, 100, 185006.	2.9	49
68	2015, 22, 056314.	0.7	49
69	Indications of flow near maximum compression in layered deuterium-tritium implosions at the National Ignition Facility. Physical Review E, 2016, 94, 021202.	0.8	49
70	The role of hot spot mix in the low-foot and high-foot implosions on the NIF. Physics of Plasmas, 2017, 24, .	0.7	49
71	Using secondary-proton spectra to study the compression and symmetry of deuterium-filled capsules at OMEGA. Physics of Plasmas, 2002, 9, 2725-2737.	0.7	48
72	Inference of mix in direct-drive implosions on OMEGA. Physics of Plasmas, 2002, 9, 2208-2213.	0.7	48

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73	Observation of the Decay Dynamics and Instabilities of Megagauss Field Structures in Laser-Produced Plasmas. Physical Review Letters, 2007, 99, 015001.	2.9	48
74	Improving cryogenic deuteriumâ€“tritium implosion performance on OMEGA. Physics of Plasmas, 2013, 20, .	0.7	48
75	Performance of High-Convergence, Layered DT Implosions with Extended-Duration Pulses at the National Ignition Facility. Physical Review Letters, 2013, 111, 215001.	2.9	47
76	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
77	D3He-proton emission imaging for inertial-confinement-fusion experiments (invited). Review of Scientific Instruments, 2004, 75, 3520-3525.	0.6	46
78	Anomalous yield reduction in direct-drive deuterium/tritium implosions due to H3e addition. Physics of Plasmas, 2009, 16, 056312.	0.7	46
79	Calibration of a Thomson parabola ion spectrometer and Fujifilm imaging plate detectors for protons, deuterons, and alpha particles. Review of Scientific Instruments, 2011, 82, 073301.	0.6	46
80	Scaled laboratory experiments explain the kink behaviour of the Crab Nebula jet. Nature Communications, 2016, 7, 13081.	5.8	46
81	OMEGA ICF experiments and preparation for direct drive ignition on NIF. Nuclear Fusion, 2001, 41, 1413-1422.	1.6	45
82	Study of direct-drive, deuteriumâ€“tritium gas-filled plastic capsule implosions using nuclear diagnostics at OMEGA. Physics of Plasmas, 2001, 8, 4902-4913.	0.7	43
83	Lorentz Mapping of Magnetic Fields in Hot Dense Plasmas. Physical Review Letters, 2009, 103, 085001.	2.9	43
84	Measurements of the Differential Cross Sections for the Elastic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi><mml:mtext mathvariant="normal">âˆ’</mml:mtext><mml:mmultiscripts><mml:mi mathvariant="normal">H</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi><mml:mtext	2.9	43
85	Measurements of collective fuel velocities in deuterium-tritium exploding pusher and cryogenically layered deuterium-tritium implosions on the NIF. Physics of Plasmas, 2013, 20, .	0.7	42
86	Development of the CD Symcap platform to study gas-shell mix in implosions at the National Ignition Facility. Physics of Plasmas, 2014, 21, .	0.7	42
87	Measuring shock-bang timing and ÏR evolution of D3He implosions at OMEGA. Physics of Plasmas, 2004, 11, 2798-2805.	0.7	41
88	Advances in compact proton spectrometers for inertial-confinement fusion and plasma nuclear science. Review of Scientific Instruments, 2012, 83, 10D908.	0.6	41
89	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.	1.6	40
90	Nuclear diagnostics for the National Ignition Facility (invited). Review of Scientific Instruments, 2001, 72, 773-779.	0.6	39

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91	Measuring Implosion Dynamics throughÏREvolution in Inertial-Confinement Fusion Experiments. Physical Review Letters, 2003, 90, 095002.	2.9	39
92	Direct-drive cryogenic target implosion performance on OMEGA. Physics of Plasmas, 2004, 11, 2790-2797.	0.7	39
93	Implosion Experiments using Glass Ablators for Direct-Drive Inertial Confinement Fusion. Physical Review Letters, 2010, 104, 165002.	2.9	39
94	Source characterization and modeling development for monoenergetic-proton radiography experiments on OMEGA. Review of Scientific Instruments, 2012, 83, 063506.	0.6	39
95	Time evolution of filamentation and self-generated fields in the coronae of directly driven inertial-confinement fusion capsules. Physics of Plasmas, 2012, 19, .	0.7	38
96	The effects of laser absorption on direct-drive capsule experiments at OMEGA. Physics of Plasmas, 2012, 19, .	0.7	38
97	Charged-particle spectroscopy for diagnosing shock ÏR and strength in NIF implosions. Review of Scientific Instruments, 2012, 83, 10D901.	0.6	38
98	A novel particle time of flight diagnostic for measurements of shock- and compression-bang times in D3He and DT implosions at the NIF. Review of Scientific Instruments, 2012, 83, 10D902.	0.6	38
99	Progress in the indirect-drive National Ignition Campaign. Plasma Physics and Controlled Fusion, 2012, 54, 124026.	0.9	38
100	Approximate models for the ion-kinetic regime in inertial-confinement-fusion capsule implosions. Physics of Plasmas, 2015, 22, 052707.	0.7	38
101	Thermonuclear reactions probed at stellar-coreÂconditions with laser-based inertial-confinementÂfusion. Nature Physics, 2017, 13, 1227-1231.	6.5	38
102	Effects of Nonuniform Illumination on Implosion Asymmetry in Direct-Drive Inertial Confinement Fusion. Physical Review Letters, 2004, 92, 205001.	2.9	37
103	D-T gamma-to-neutron branching ratio determined from inertial confinement fusion plasmas. Physics of Plasmas, 2012, 19, .	0.7	37
104	Slowing of Magnetic Reconnection Concurrent with Weakening Plasma Inflows and Increasing Collisionality in Strongly Driven Laser-Plasma Experiments. Physical Review Letters, 2015, 114, 205004.	2.9	37
105	Direct drive: Simulations and results from the National Ignition Facility. Physics of Plasmas, 2016, 23, 056305.	0.7	36
106	Measuring the absolute deuteriumâ€“tritium neutron yield using the magnetic recoil spectrometer at OMEGA and the NIF. Review of Scientific Instruments, 2012, 83, 10D912.	0.6	35
107	Structure and Dynamics of Colliding Plasma Jets. Physical Review Letters, 2013, 111, 235003.	2.9	35
108	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi><mml:mo>+</mml:mo><mml:mi>T</mml:mi></mml:math>Neutron Spectrum Using the National Ignition Facility. Physical Review Letters, 2013, 111, 052501.	2.9	34

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109	Advanced-ignition-concept exploration on OMEGA. Plasma Physics and Controlled Fusion, 2009, 51, 124052.	0.9	33
110	Shock-tuned cryogenic-deuterium-tritium implosion performance on Omega. Physics of Plasmas, 2010, 17, 056312.	0.7	33
111	Investigation of ion kinetic effects in direct-drive exploding-pusher implosions at the NIF. Physics of Plasmas, 2014, 21, 122712.	0.7	33
112	Direct-drive cryogenic target implosion performance on OMEGA. Physics of Plasmas, 2003, 10, 1937-1945.	0.7	32
113	Triple-picket warm plastic-shell implosions on OMEGA. Physics of Plasmas, 2011, 18, 012705.	0.7	32
114	Experimental Validation of Low- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi></mml:math> Ion-Stopping Formalisms around the Bragg Peak in High-Energy-Density Plasmas. Physical Review Letters, 2019, 122, 015002.	2.9	32
115	Proton radiography of dynamic electric and magnetic fields in laser-produced high-energy-density plasmas. Physics of Plasmas, 2009, 16, .	0.7	31
116	Nuclear diagnostics for Inertial Confinement Fusion (ICF) plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 023001.	0.9	31
117	Core conditions for alpha heating attained in direct-drive inertial confinement fusion. Physical Review E, 2016, 94, 011201.	0.8	30
118	New neutron diagnostics with the magnetic proton recoil spectrometer. Review of Scientific Instruments, 1999, 70, 1181-1184.	0.6	29
119	Dependence of Shell Mix on Feedthrough in Direct Drive Inertial Confinement Fusion. Physical Review Letters, 2004, 92, 185002.	2.9	29
120	The National Ignition Facility Diagnostic Set at the Completion of the National Ignition Campaign, September 2012. Fusion Science and Technology, 2016, 69, 420-451.	0.6	29
121	Observations of fast protons above 1 MeV produced in direct-drive laser-fusion experiments. Physics of Plasmas, 2001, 8, 606-610.	0.7	28
122	Polar-drive implosions on OMEGA and the National Ignition Facility. Physics of Plasmas, 2013, 20, .	0.7	28
123	Measurements of ÏR asymmetries at burn time in inertial-confinement-fusion capsules. Physics of Plasmas, 2002, 9, 3558-3566.	0.7	27
124	Multifluid interpenetration mixing in directly driven inertial confinement fusion capsule implosions. Physics of Plasmas, 2004, 11, 2723-2728.	0.7	27
125	Direct-drive, cryogenic target implosions on OMEGA. Physics of Plasmas, 2005, 12, 056302.	0.7	27
126	Progress in hydrodynamics theory and experiments for direct-drive and fast ignition inertial confinement fusion. Plasma Physics and Controlled Fusion, 2006, 48, B153-B163.	0.9	27

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127	The coincidence counting technique for orders of magnitude background reduction in data obtained with the magnetic recoil spectrometer at OMEGA and the NIF. Review of Scientific Instruments, 2011, 82, 073502.	0.6	27
128	Measurements of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="bold">T</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>t</mml:mi><mml:mo>,</mml:mo><mml:mn>2</mml:mn><mml:mi>n</mml:mi><mml:mo) Tj ET /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math>Neutron Spectrum at Low Reactant Energies from Inertial Confinement Implosions. Physical Review Letters, 2012, 109, 025003.	2.9	27
129	Impeding Hohlraum Plasma Stagnation in Inertial-Confinement Fusion. Physical Review Letters, 2012, 108, 025001.	2.9	27
130	Assessment of ion kinetic effects in shock-driven inertial confinement fusion implosions using fusion burn imaging. Physics of Plasmas, 2015, 22, .	0.7	27
131	Experimental results of radiation-driven, layered deuterium-tritium implosions with adiabat-shaped drives at the National Ignition Facility. Physics of Plasmas, 2016, 23, .	0.7	27
132	Using Inertial Fusion Implosions to Measure the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">T</mml:mi><mml:mo>+</mml:mo><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mm /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:mrow></mml:math>Fusion Cross Section at Nucleosynthesis-Relevant Energies. Physical Review Letters, 2016, 117, 035002.	2.9	27
133	The magnetic recoil spectrometer (MRSt) for time-resolved measurements of the neutron spectrum at the National Ignition Facility (NIF). Review of Scientific Instruments, 2016, 87, 11D806.	0.6	26
134	Collisionless Shocks Driven by Supersonic Plasma Flows with Self-Generated Magnetic Fields. Physical Review Letters, 2019, 123, 055002.	2.9	26
135	Determination of the deuterium-tritium branching ratio based on inertial confinement fusion implosions. Physical Review C, 2012, 85, .	1.1	25
136	Time-Dependent Nuclear Measurements of Mix in Inertial Confinement Fusion. Physical Review Letters, 2007, 98, 215002.	2.9	24
137	In-flight observations of low-mode <i>Ï‹</i>R asymmetries in NIF implosions. Physics of Plasmas, 2015, 22, .	0.7	24
138	Observations of the collapse of asymmetrically driven convergent shocks. Physics of Plasmas, 2008, 15, .	0.7	23
139	Progress toward ignition at the National Ignition Facility. Plasma Physics and Controlled Fusion, 2013, 55, 124015.	0.9	23
140	Using multiple secondary fusion products to evaluate fuel <i>ÏR</i>, electron temperature, and mix in deuterium-filled implosions at the NIF. Physics of Plasmas, 2015, 22, .	0.7	23
141	Characterization of single and colliding laser-produced plasma bubbles using Thomson scattering and proton radiography. Physical Review E, 2012, 86, 056407.	0.8	22
142	A Particle X-ray Temporal Diagnostic (PXTD) for studies of kinetic, multi-ion effects, and ion-electron equilibration rates in Inertial Confinement Fusion plasmas at OMEGA (invited). Review of Scientific Instruments, 2016, 87, 11D701.	0.6	22
143	Diagnosing fuel ÏR and ÏR asymmetries in cryogenic deuterium-tritium implosions using charged-particle spectrometry at OMEGA. Physics of Plasmas, 2009, 16, 042704.	0.7	21
144	Mapping return currents in laser-generated Z-pinch plasmas using proton deflectometry. Applied Physics Letters, 2012, 100, .	1.5	21

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145	Monochromatic backlighting of direct-drive cryogenic DT implosions on OMEGA. Physics of Plasmas, 2017, 24, .	0.7	21
146	The effect of shock dynamics on compressibility of ignition-scale National Ignition Facility implosions. Physics of Plasmas, 2014, 21, .	0.7	20
147	Development of an inertial confinement fusion platform to study charged-particle-producing nuclear reactions relevant to nuclear astrophysics. Physics of Plasmas, 2017, 24, .	0.7	20
148	The control of hot-electron preheat in shock-ignition implosions. Physics of Plasmas, 2018, 25, .	0.7	20
149	Using nuclear data and Monte Carlo techniques to study areal density and mix in D2 implosions. Physics of Plasmas, 2005, 12, 032703.	0.7	18
150	High-ÏRImplosions for Fast-Ignition Fuel Assembly. Physical Review Letters, 2007, 98, 025004.	2.9	18
151	Upgrade of the MIT Linear Electrostatic Ion Accelerator (LEIA) for nuclear diagnostics development for Omega, Z and the NIF. Review of Scientific Instruments, 2012, 83, 043502.	0.6	18
152	Empirical assessment of the detection efficiency of CR-39 at high proton fluence and a compact, proton detector for high-fluence applications. Review of Scientific Instruments, 2014, 85, 043302.	0.6	18
153	Performance and Mix Measurements of Indirect Drive Cu-Doped Be Implosions. Physical Review Letters, 2015, 114, 205002.	2.9	18
154	Analysis of trends in experimental observables: Reconstruction of the implosion dynamics and implications for fusion yield extrapolation for direct-drive cryogenic targets on OMEGA. Physics of Plasmas, 2018, 25, .	0.7	18
155	Scaling of laser-driven electron and proton acceleration as a function of laser pulse duration, energy, and intensity in the multi-picosecond regime. Physics of Plasmas, 2021, 28, .	0.7	18
156	Proton core imaging of the nuclear burn in inertial confinement fusion implosions. Review of Scientific Instruments, 2006, 77, 043503.	0.6	17
157	Effects of fuel-capsule shimming and drive asymmetry on inertial-confinement-fusion symmetry and yield. Physics of Plasmas, 2016, 23, .	0.7	17
158	Direct-drive fuel-assembly experiments with gas-filled, cone-in-shell, fast-ignitor targets on the OMEGA Laser. Plasma Physics and Controlled Fusion, 2005, 47, B859-B867.	0.9	16
159	A stretch/compress scheme for a high temporal resolution detector for the magnetic recoil spectrometer time (MRSt). Review of Scientific Instruments, 2016, 87, 11D807.	0.6	16
160	Proton Spectra from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mi mathvariant="normal">T</mml:mi></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts	2.9	16
161	Impact of asymmetries on fuel performance in inertial confinement fusion. Physical Review E, 2018, 98, .	0.8	16
162	Measurement and interpretation of the spectrum of the triton burnup neutron emission from deuterium tokamak plasmas. Nuclear Fusion, 2000, 40, 21-33.	1.6	15

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163	Electron-ion thermal equilibration after spherical shock collapse. Physical Review E, 2009, 80, 026403.	0.8	15
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