

Richard D Petrasso

List of Publications by Year in descending order

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198
papers

8,081
citations

39113

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73587

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200
all docs

200
docs citations

200
times ranked

2717
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong suppression of heat conduction in a laboratory replica of galaxy-cluster turbulent plasmas. <i>Science Advances</i> , 2022, 8, eabj6799.	4.7	11
2	Experiments on the dynamics and scaling of spontaneous-magnetic-field saturation in laser-produced plasmas. <i>Physical Review E</i> , 2022, 105, .	0.8	1
3	Insensitivity of a turbulent laser-plasma dynamo to initial conditions. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	1.5	3
4	Response of CR-39 nuclear track detectors to protons with non-normal incidence. <i>Review of Scientific Instruments</i> , 2021, 92, 013504.	0.6	4
5	A second order yield-temperature relation for accurate inference of burn-averaged quantities in multi-species plasmas. <i>Physics of Plasmas</i> , 2021, 28, 022701.	0.7	3
6	A multi-channel x-ray temporal diagnostic for measurement of time-resolved electron temperature in cryogenic deuterium-tritium implosions at OMEGA. <i>Review of Scientific Instruments</i> , 2021, 92, 023507.	0.6	3
7	Using millimeter-sized carbon-deuterium foils for high-precision deuterium-tritium neutron spectrum measurements in direct-drive inertial confinement fusion at the OMEGA laser facility. <i>Review of Scientific Instruments</i> , 2021, 92, 023503.	0.6	2
8	Time-resolved turbulent dynamo in a laser plasma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	20
9	Developing inverted-corona-fusion targets as high-fluence neutron sources. <i>Review of Scientific Instruments</i> , 2021, 92, 033544.	0.6	4
10	An x-ray penumbral imager for measurements of electron-temperature profiles in inertial confinement fusion implosions at OMEGA. <i>Review of Scientific Instruments</i> , 2021, 92, 043548.	0.6	10
11	Yield degradation due to laser drive asymmetry in D3He backlit proton radiography experiments at OMEGA. <i>Review of Scientific Instruments</i> , 2021, 92, 043551.	0.6	4
12	A new tri-particle backlighter for high-energy-density plasmas (invited). <i>Review of Scientific Instruments</i> , 2021, 92, 063524.	0.6	6
13	Reaching 30% energy coupling efficiency for a high-density-carbon capsule in a gold rugby hohlraum on NIF. <i>Nuclear Fusion</i> , 2021, 61, 086028.	1.6	4
14	Thermal decoupling of deuterium and tritium during the inertial confinement fusion shock-convergence phase. <i>Physical Review E</i> , 2021, 104, L013201.	0.8	9
15	Extension of charged-particle spectrometer capabilities for diagnosing implosions on OMEGA, Z, and the NIF. <i>Review of Scientific Instruments</i> , 2021, 92, 083506.	0.6	4
16	Symmetry tuning and high energy coupling for an Al capsule in a Au rugby hohlraum on NIF. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	5
17	CR-39 nuclear track detector response to inertial confinement fusion relevant ions. <i>Review of Scientific Instruments</i> , 2020, 91, 053502.	0.6	10
18	The conceptual design of 1-ps time resolution neutron detector for fusion reaction history measurement at OMEGA and the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2020, 91, 063304.	0.6	7

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19	Transport of High-energy Charged Particles through Spatially Intermittent Turbulent Magnetic Fields. <i>Astrophysical Journal</i> , 2020, 892, 114.	1.6	8
20	A neutron recoil-spectrometer for measuring yield and determining liner areal densities at the Z facility. <i>Review of Scientific Instruments</i> , 2020, 91, 073501.	0.6	5
21	Impact of stalk on directly driven inertial confinement fusion implosions. <i>Physics of Plasmas</i> , 2020, 27, 032704.	0.7	15
22	Collisionless Shocks Driven by Supersonic Plasma Flows with Self-Generated Magnetic Fields. <i>Physical Review Letters</i> , 2019, 123, 055002.	2.9	26
23	Fuel-ion diffusion in shock-driven inertial confinement fusion implosions. <i>Matter and Radiation at Extremes</i> , 2019, 4, .	1.5	3
24	Probing ion species separation and ion thermal decoupling in shock-driven implosions using multiple nuclear reaction histories. <i>Physics of Plasmas</i> , 2019, 26, 072703.	0.7	5
25	Tripled yield in direct-drive laser fusion through statistical modelling. <i>Nature</i> , 2019, 565, 581-586.	13.7	103
26	Impact of imposed mode 2 laser drive asymmetry on inertial confinement fusion implosions. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	15
27	Observations of Multiple Nuclear Reaction Histories and Fuel-Ion Species Dynamics in Shock-Driven Inertial Confinement Fusion Implosions. <i>Physical Review Letters</i> , 2019, 122, 035001.	2.9	15
28	Mega-Gauss Plasma Jet Creation Using a Ring of Laser Beams. <i>Astrophysical Journal Letters</i> , 2019, 873, L11.	3.0	12
29	Kinetic effects on neutron generation in moderately collisional interpenetrating plasma flows. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	12
30	Numerical simulation of magnetized jet creation using a hollow ring of laser beams. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	10
31	Response of a lead-free borosilicate-glass microchannel plate to 14-MeV neutrons and $\hat{\text{I}}^3$ -rays. <i>Review of Scientific Instruments</i> , 2019, 90, 103306.	0.6	3
32	Modified parameterization of the Li-Petrasso charged-particle stopping power theory. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	10
33	Experimental Validation of Low- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle Z \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Ion-Stopping Formalisms around the Bragg Peak in High-Energy-Density Plasmas. <i>Physical Review Letters</i> , 2019, 122, 015002.	2.9	32
34	Laboratory evidence of dynamo amplification of magnetic fields in a turbulent plasma. <i>Nature Communications</i> , 2018, 9, 591.	5.8	105
35	The National Direct-Drive Program: OMEGA to the National Ignition Facility. <i>Fusion Science and Technology</i> , 2018, 73, 89-97.	0.6	12
36	Visualizing deceleration-phase instabilities in inertial confinement fusion implosions using an enhanced self-emission technique at the National Ignition Facility. <i>Physics of Plasmas</i> , 2018, 25, 054502.	0.7	22

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37	Optimization of a high-yield, low-areal-density fusion product source at the National Ignition Facility with applications in nucleosynthesis experiments. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	10
38	Impact of asymmetries on fuel performance in inertial confinement fusion. <i>Physical Review E</i> , 2018, 98, .	0.8	16
39	One dimensional imager of neutrons on the Z machine. <i>Review of Scientific Instruments</i> , 2018, 89, 10I132.	0.6	12
40	Measurement of apparent ion temperature using the magnetic recoil spectrometer at the OMEGA laser facility. <i>Review of Scientific Instruments</i> , 2018, 89, 10I129.	0.6	12
41	Implementation of the foil-on-hohlraum technique for the magnetic recoil spectrometer for time-resolved neutron measurements at the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2018, 89, 113508.	0.6	6
42	Experimental Evidence of a Variant Neutron Spectrum from the T_j ETJ	2.9	6
43	Energies in the Range of 16–50 keV. <i>Physical Review Letters</i> , 2018, 121, 042501. 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.	0.7	15
44	A broadband proton backlighting platform to probe shock propagation in low-density systems. <i>Review of Scientific Instruments</i> , 2017, 88, 013503.	0.6	6
45	Development of an inertial confinement fusion platform to study charged-particle-producing nuclear reactions relevant to nuclear astrophysics. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	20
46	Numerical modeling of laser-driven experiments aiming to demonstrate magnetic field amplification via turbulent dynamo. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	31
47	Monochromatic backlighting of direct-drive cryogenic DT implosions on OMEGA. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	21
48	Transition from Collisional to Collisionless Regimes in Interpenetrating Plasma Flows on the National Ignition Facility. <i>Physical Review Letters</i> , 2017, 118, 185003.	2.9	49
49	${}^3\text{He}$ and ${}^3\text{T}$	2.9	16
50	A novel method to recover DD fusion proton CR-39 data corrupted by fast ablator ions at OMEGA and the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2016, 87, 11D812.	0.6	2
51	Application of the coincidence counting technique to DD neutron spectrometry data at the NIF, OMEGA, and Z. <i>Review of Scientific Instruments</i> , 2016, 87, 11D801.	0.6	3
52	Kinetic studies of ICF implosions. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012027.	0.3	1
53	Understanding the stagnation and burn of implosions on NIF. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012048.	0.3	4
54	Development of a WDM platform for charged-particle stopping experiments. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012118.	0.3	4

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55	Laboratory astrophysical collisionless shock experiments on Omega and NIF. Journal of Physics: Conference Series, 2016, 688, 012084.	0.3	11
56	Scaled laboratory experiments explain the kink behaviour of the Crab Nebula jet. Nature Communications, 2016, 7, 13081.	5.8	46
57	High-resolution measurements of the DT neutron spectrum using new CD foils in the Magnetic Recoil neutron Spectrometer (MRS) on the National Ignition Facility. Review of Scientific Instruments, 2016, 87, 11D816.	0.6	7
58	Direct drive: Simulations and results from the National Ignition Facility. Physics of Plasmas, 2016, 23, 056305.	0.7	36
59	The near vacuum hohlraum campaign at the NIF: A new approach. Physics of Plasmas, 2016, 23, .	0.7	51
60	Symmetry control in subscale near-vacuum hohlraums. Physics of Plasmas, 2016, 23, .	0.7	34
61	Effects of fuel-capsule shimming and drive asymmetry on inertial-confinement-fusion symmetry and yield. Physics of Plasmas, 2016, 23, .	0.7	17
62	Ion-kinetic simulations of D-3He gas-filled inertial confinement fusion target implosions with moderate to large Knudsen number. Physics of Plasmas, 2016, 23, .	0.7	26
63	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
64	Proton pinhole imaging on the National Ignition Facility. Review of Scientific Instruments, 2016, 87, 11E704.	0.6	4
65	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
66	Demonstration of Fuel Hot-Spot Pressure in Excess of 50ÅGbar for Direct-Drive, Layered Deuterium-Tritium Implosions on OMEGA. Physical Review Letters, 2016, 117, 025001.	2.9	72
67	Using Inertial Fusion Implosions to Measure the $T \langle \sigma v \rangle$ Cross Section at Nucleosynthesis-Relevant Energies. Physical Review Letters, 2016, 117, 035002.	2.9	27
68	Signal and background considerations for the MRSt on the National Ignition Facility (NIF). Review of Scientific Instruments, 2016, 87, 11D808.	0.6	6
69	Sensitivity of chemical vapor deposition diamonds to DD and DT neutrons at OMEGA and the National Ignition Facility. Review of Scientific Instruments, 2016, 87, 11D817.	0.6	3
70	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
71	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
72	Measurements of Ion Stopping Around the Bragg Peak in High-Energy-Density Plasmas. Physical Review Letters, 2015, 115, 205001.	2.9	64

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73	Using multiple secondary fusion products to evaluate fuel \bar{r} , electron temperature, and mix in deuterium-filled implosions at the NIF. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	23
74	Note: A monoenergetic proton backlighter for the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2015, 86, 116104.	0.6	23
75	Impact of x-ray dose on track formation and data analysis for CR-39-based proton diagnostics. <i>Review of Scientific Instruments</i> , 2015, 86, 123511.	0.6	6
76	Laser irradiance scaling in polar direct drive implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	11
77	Assessment of ion kinetic effects in shock-driven inertial confinement fusion implosions using fusion burn imaging. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	27
78	Collisionless shock experiments with lasers and observation of Weibel instabilities. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	51
79	Measurement of Charged-Particle Stopping in Warm Dense Plasma. <i>Physical Review Letters</i> , 2015, 114, 215002.	2.9	107
80	A laboratory study of asymmetric magnetic reconnection in strongly driven plasmas. <i>Nature Communications</i> , 2015, 6, 6190.	5.8	55
81	Ion Thermal Decoupling and Species Separation in Shock-Driven Implosions. <i>Physical Review Letters</i> , 2015, 114, 025001.	2.9	67
82	Observation of magnetic field generation via the Weibel instability in interpenetrating plasma flows. <i>Nature Physics</i> , 2015, 11, 173-176.	6.5	236
83	Slowing of Magnetic Reconnection Concurrent with Weakening Plasma Inflows and Increasing Collisionality in Strongly Driven Laser-Plasma Experiments. <i>Physical Review Letters</i> , 2015, 114, 205004.	2.9	37
84		0.7	52
85	A method for <i>in situ</i> absolute DD yield calibration of neutron time-of-flight detectors on OMEGA using CR-39-based proton detectors. <i>Review of Scientific Instruments</i> , 2015, 86, 053506.	0.6	12
86	First experiments probing the collision of parallel magnetic fields using laser-produced plasmas. <i>Physics of Plasmas</i> , 2015, 22, 042703.	0.7	6
87	Approximate models for the ion-kinetic regime in inertial-confinement-fusion capsule implosions. <i>Physics of Plasmas</i> , 2015, 22, 052707.	0.7	38
88	Impact of x-ray dose on the response of CR-39 to ~ 5.5 MeV alphas. <i>Review of Scientific Instruments</i> , 2015, 86, 033501.	0.6	12
89	In-flight observations of low-mode \bar{r} asymmetries in NIF implosions. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	24
90	Investigation of ion kinetic effects in direct-drive exploding-pusher implosions at the NIF. <i>Physics of Plasmas</i> , 2014, 21, 122712.	0.7	33

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91	The effect of shock dynamics on compressibility of ignition-scale National Ignition Facility implosions. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	20
92	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
93	A compact proton spectrometer for measurement of the absolute DD proton spectrum from which yield and $\langle i \rangle$ are determined in thin-shell inertial-confinement-fusion implosions. <i>Review of Scientific Instruments</i> , 2014, 85, 103504.	0.6	15
94	Measurements of fuel and ablator \bar{R} in Symmetry-Capsule implosions with the Magnetic Recoil neutron Spectrometer (MRS) on the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2014, 85, 11E104.	0.6	13
95	A technique for extending by $\hat{\sim} 10^3$ the dynamic range of compact proton spectrometers for diagnosing ICF implosions on the National Ignition Facility and OMEGA. <i>Review of Scientific Instruments</i> , 2014, 85, 11E119.	0.6	4
96	Species separation and kinetic effects in collisional plasma shocks. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	46
97	A compact neutron spectrometer for characterizing inertial confinement fusion implosions at OMEGA and the NIF. <i>Review of Scientific Instruments</i> , 2014, 85, 063502.	0.6	6
98	Empirical assessment of the detection efficiency of CR-39 at high proton fluence and a compact, proton detector for high-fluence applications. <i>Review of Scientific Instruments</i> , 2014, 85, 043302.	0.6	18
99	Exploration of the Transition from the Hydrodynamiclike to the Strongly Kinetic Regime in Shock-Driven Implosions. <i>Physical Review Letters</i> , 2014, 112, 185001.	2.9	77
100	Kinetic mix mechanisms in shock-driven inertial confinement fusion implosions. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	15
101	Development of the CD Symcap platform to study gas-shell mix in implosions at the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	42
102	First Observations of Nonhydrodynamic Mix at the Fuel-Shell Interface in Shock-Driven Inertial Confinement Implosions. <i>Physical Review Letters</i> , 2014, 112, 135001.	2.9	58
103	Hydrodynamic instability growth and mix experiments at the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	60
104	High-density carbon ablator experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	116
105	Improving the hot-spot pressure and demonstrating ignition hydrodynamic equivalence in cryogenic deuterium-tritium implosions on OMEGA. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	139
106	Observation of a Reflected Shock in an Indirectly Driven Spherical Implosion at the National Ignition Facility. <i>Physical Review Letters</i> , 2014, 112, 225002.	2.9	68
107	Progress towards ignition on the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	259
108	Performance of High-Convergence, Layered DT Implosions with Extended-Duration Pulses at the National Ignition Facility. <i>Physical Review Letters</i> , 2013, 111, 215001.	2.9	47

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109	Measurements of collective fuel velocities in deuterium-tritium exploding pusher and cryogenically layered deuterium-tritium implosions on the NIF. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	42
110	Nuclear imaging of the fuel assembly in ignition experiments. <i>Physics of Plasmas</i> , 2013, 20, 056320.	0.7	65
111	Improving cryogenic deuterium-tritium implosion performance on OMEGA. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	48
112	An empirical target discharging model relevant to hot-electron preheat in direct-drive implosions on OMEGA. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 045001.	0.9	12
113	Polar-drive implosions on OMEGA and the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	28
114	Observation of strong electromagnetic fields around laser-entrance holes of ignition-scale hohlraums in inertial-confinement fusion experiments at the National Ignition Facility. <i>New Journal of Physics</i> , 2013, 15, 025040.	1.2	14
115	The magnetic recoil spectrometer for measurements of the absolute neutron spectrum at OMEGA and the NIF. <i>Review of Scientific Instruments</i> , 2013, 84, 043506.	0.6	59
116	Species separation in inertial confinement fusion fuels. <i>Physics of Plasmas</i> , 2013, 20, 012701.	0.7	47
117	Time evolution of filamentation and self-generated fields in the coronae of directly driven inertial-confinement fusion capsules. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	38
118	Inertial confinement fusion implosions with imposed magnetic field compression using the OMEGA Laser. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	112
119	Measuring the absolute deuterium-tritium neutron yield using the magnetic recoil spectrometer at OMEGA and the NIF. <i>Review of Scientific Instruments</i> , 2012, 83, 10D912.	0.6	35
120	Measurements of hohlraum-produced fast ions. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	4
121	Cryogenic thermonuclear fuel implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	95
122	Source characterization and modeling development for monoenergetic-proton radiography experiments on OMEGA. <i>Review of Scientific Instruments</i> , 2012, 83, 063506.	0.6	39
123	Charged-particle spectroscopy for diagnosing shock Γ and strength in NIF implosions. <i>Review of Scientific Instruments</i> , 2012, 83, 10D901.	0.6	38
124	A novel particle time of flight diagnostic for measurements of shock- and compression-bang times in D3He and DT implosions at the NIF. <i>Review of Scientific Instruments</i> , 2012, 83, 10D902.	0.6	38
125	Measurements of the $\langle T \rangle$ stretch $\langle t \rangle$ $\langle n \rangle^2$ Neutron Spectrum at Low Reactant Energies from Inertial Confinement Implosions. <i>Physical Review Letters</i> , 2012, 109, 025003.	2.9	27
126	Impeding Hohlraum Plasma Stagnation in Inertial-Confinement Fusion. <i>Physical Review Letters</i> , 2012, 108, 025001.	2.9	27

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127	Assembly of High-Areal-Density Deuterium-Tritium Fuel from Indirectly Driven Cryogenic Implosions. <i>Physical Review Letters</i> , 2012, 108, 215005.	2.9	57
128	Advances in compact proton spectrometers for inertial-confinement fusion and plasma nuclear science. <i>Review of Scientific Instruments</i> , 2012, 83, 10D908.	0.6	41
129	First Measurements of Rayleigh-Taylor-Induced Magnetic Fields in Laser-Produced Plasmas. <i>Physical Review Letters</i> , 2012, 108, 255006.	2.9	64
130	Mapping return currents in laser-generated Z-pinch plasmas using proton deflectometry. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	21
131	Characterization of single and colliding laser-produced plasma bubbles using Thomson scattering and proton radiography. <i>Physical Review E</i> , 2012, 86, 056407.	0.8	22
132	Total energy loss to fast ablator-ions and target capacitance of direct-drive implosions on OMEGA. <i>Applied Physics Letters</i> , 2012, 101, 114102.	1.5	10
133	Implosion dynamics measurements at the National Ignition Facility. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	125
134	Neutron spectrometry—An essential tool for diagnosing implosions at the National Ignition Facility (invited). <i>Review of Scientific Instruments</i> , 2012, 83, 10D308.	0.6	117
135	Upgrade of the MIT Linear Electrostatic Ion Accelerator (LEIA) for nuclear diagnostics development for Omega, Z and the NIF. <i>Review of Scientific Instruments</i> , 2012, 83, 043502.	0.6	18
136	Using high-intensity laser-generated energetic protons to radiograph directly driven implosions. <i>Review of Scientific Instruments</i> , 2012, 83, 013511.	0.6	58
137	Evidence for Stratification of Deuterium-Tritium Fuel in Inertial Confinement Fusion Implosions. <i>Physical Review Letters</i> , 2012, 108, 075002.	2.9	61
138	Measurements of the Differential Cross Sections for the Elastic $\hat{\alpha}^n$ H^3 and $\hat{\alpha}^n$	2.9	43
139	Increasing the energy dynamic range of solid-state nuclear track detectors using multiple surfaces. <i>Review of Scientific Instruments</i> , 2011, 82, 083301.	0.6	9
140	The coincidence counting technique for orders of magnitude background reduction in data obtained with the magnetic recoil spectrometer at OMEGA and the NIF. <i>Review of Scientific Instruments</i> , 2011, 82, 073502.	0.6	27
141	Changes in CR-39 proton sensitivity due to prolonged exposure to high vacuums relevant to the National Ignition Facility and OMEGA. <i>Review of Scientific Instruments</i> , 2011, 82, 095110.	0.6	12
142	Triple-picket warm plastic-shell implosions on OMEGA. <i>Physics of Plasmas</i> , 2011, 18, 012705.	0.7	32
143	The response of CR-39 nuclear track detector to 1×10^9 MeV protons. <i>Review of Scientific Instruments</i> , 2011, 82, 103303.	0.6	66
144	Charged-Particle Probing of X-ray-Driven Inertial-Fusion Implosions. <i>Science</i> , 2010, 327, 1231-1235.	6.0	86

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145	Plasma Barodiffusion in Inertial-Confinement-Fusion Implosions: Application to Observed Yield Anomalies in Thermonuclear Fuel Mixtures. <i>Physical Review Letters</i> , 2010, 105, 115005.	2.9	84
146	Demonstration of the Highest Deuterium-Tritium Areal Density Using Multiple-Picket Cryogenic Designs on OMEGA. <i>Physical Review Letters</i> , 2010, 104, 165001.	2.9	111
147	Shock-tuned cryogenic-deuterium-tritium implosion performance on Omega. <i>Physics of Plasmas</i> , 2010, 17, 056312.	0.7	33
148	Compressing magnetic fields with high-energy lasers. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	89
149	Probing high areal-density cryogenic deuterium-tritium implosions using downscattered neutron spectra measured by the magnetic recoil spectrometer. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	91
150	Laser-Driven Magnetic-Flux Compression in High-Energy-Density Plasmas. <i>Physical Review Letters</i> , 2009, 103, 215004.	2.9	91
151	Lorentz Mapping of Magnetic Fields in Hot Dense Plasmas. <i>Physical Review Letters</i> , 2009, 103, 085001.	2.9	43
152	Electron-ion thermal equilibration after spherical shock collapse. <i>Physical Review E</i> , 2009, 80, 026403.	0.8	15
153	Observations of Electromagnetic Fields and Plasma Flow in Hohlräume with Proton Radiography. <i>Physical Review Letters</i> , 2009, 102, 205001.	2.9	69
154	Electric field and ionization-gradient effects on inertial-confinement-fusion implosions. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124048.	0.9	25
155	Plasma-Density Determination from X-Ray Radiography of Laser-Driven Spherical Implosions. <i>Physical Review Letters</i> , 2009, 102, 185004.	2.9	68
156	Proton Radiography of Inertial Fusion Implosions. <i>Science</i> , 2008, 319, 1223-1225.	6.0	157
157	Performance of direct-drive cryogenic targets on OMEGA. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	92
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