

F N Beg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157
papers

5,423
citations

38
h-index

70
g-index

190
ext. papers

5,870
ext. citations

3.2
avg, IF

4.74
L-index

#	Paper	IF	Citations
157	Wire, hybrid, and laser-cut X-pinch as Talbot-Lau backlighters for electron density diagnostics. <i>Plasma Physics and Controlled Fusion</i> , 2022 , 64, 035011	2	1
156	Material effects on dynamics in triple-nozzle gas-puff Z pinches. <i>Physical Review E</i> , 2022 , 105, 045205	2.4	1
155	Fast electron transport dynamics and energy deposition in magnetized, imploded cylindrical plasma. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200052	3	1
154	The effects of laser pulse length and collisional ionization on the acceleration of titanium ions. <i>Plasma Physics and Controlled Fusion</i> , 2021 , 63, 065011	2	
153	Azimuthal magnetic field distribution in gas-puff Z-pinch implosions with and without external magnetic stabilization. <i>Physical Review E</i> , 2021 , 103, 053205	2.4	
152	Talbot-Lau x-ray deflectometer: Refraction-based HEDP imaging diagnostic. <i>Review of Scientific Instruments</i> , 2021 , 92, 065110	1.7	3
151	Pump-depletion dynamics and saturation of stimulated Brillouin scattering in shock ignition relevant experiments. <i>Physical Review E</i> , 2021 , 103, 063208	2.4	
150	Effect of insulator surface conditioning on the pinch dynamics and x-ray production of a Ne-filled dense plasma focus. <i>Journal of Applied Physics</i> , 2021 , 129, 223303	2.5	1
149	Direct comparison of wire, foil, and hybrid X-pinch on a 200 kA, 150 ns current driver. <i>Journal of Applied Physics</i> , 2021 , 129, 073301	2.5	6
148	Magnetohydrodynamic simulations of a megaampere-class Kr-doped deuterium dense plasma focus. <i>Physics of Plasmas</i> , 2021 , 28, 022707	2.1	1
147	Electron acceleration at oblique angles via stimulated Raman scattering at laser irradiance $>10^{16} \text{ W cm}^{-2} \text{ h}^2$. <i>Physical Review E</i> , 2021 , 103, 033203	2.4	1
146	A quasi-monoenergetic short time duration compact proton source for probing high energy density states of matter. <i>Scientific Reports</i> , 2021 , 11, 6881	4.9	1
145	Dynamics and energy coupling of gas puff Z-pinch on a fast linear transformer driver. <i>Journal of Applied Physics</i> , 2021 , 130, 023301	2.5	2
144	Mitigation of magneto-Rayleigh-Taylor instability growth in a triple-nozzle, neutron-producing gas-puff Z pinch. <i>Physical Review E</i> , 2021 , 104, L023201	2.4	4
143	Kinematics of femtosecond laser-generated plasma expansion: Determination of sub-micron density gradient and collisionality evolution of over-critical laser plasmas. <i>Physics of Plasmas</i> , 2021 , 28, 093109	2.1	2
142	Pump depletion and hot-electron generation in long-density-scale-length plasma with shock-ignition high-intensity laser. <i>Physical Review E</i> , 2020 , 101, 033206	2.4	3
141	Characterization of an imploding cylindrical plasma for electron transport studies using x-ray emission spectroscopy. <i>Physics of Plasmas</i> , 2020 , 27, 023302	2.1	2

140	Study of stability in a liner-on-target gas puff Z-pinch as a function of pre-embedded axial magnetic field. <i>Physics of Plasmas</i> , 2020 , 27, 012702	2.1	10
139	Laser reflection as a catalyst for direct laser acceleration in multipicosecond laser-plasma interaction. <i>Physics of Plasmas</i> , 2020 , 27, 013106	2.1	2
138	Transport of kJ-laser-driven relativistic electron beams in cold and shock-heated vitreous carbon and diamond. <i>New Journal of Physics</i> , 2020 , 22, 033031	2.9	1
137	Experimental study of hot electron generation in shock ignition relevant high-intensity regime with large scale hot plasmas. <i>Physics of Plasmas</i> , 2020 , 27, 023111	2.1	7
136	Role of collisionality and radiative cooling in supersonic plasma jet collisions of different materials. <i>Physical Review E</i> , 2020 , 101, 023205	2.4	3
135	MA-class linear transformer driver for Z-pinch research. <i>Physical Review Accelerators and Beams</i> , 2020 , 23,	1.8	8
134	Dynamic focusing of laser driven positron jets by self-generated fields. <i>New Journal of Physics</i> , 2020 , 22, 123020	2.9	0
133	Focussing Protons from a Kilojoule Laser for Intense Beam Heating using Proximal Target Structures. <i>Scientific Reports</i> , 2020 , 10, 9415	4.9	8
132	Ion acceleration from microstructured targets irradiated by high-intensity picosecond laser pulses. <i>Physical Review E</i> , 2020 , 102, 021201	2.4	9
131	Effect of krypton admixture in deuterium on neutron yield in a megaampere dense plasma focus. <i>Journal of Applied Physics</i> , 2020 , 128, 143302	2.5	3
130	Gated liquid scintillator detector for neutron time of flight measurements in a gas-puff Z-pinch experiment. <i>Review of Scientific Instruments</i> , 2019 , 90, 073505	1.7	2
129	Ar and Kr on deuterium gas-puff staged Z-pinch implosions on a 1-MA driver: Experiment and simulation. <i>Physics of Plasmas</i> , 2019 , 26, 052706	2.1	8
128	First demonstration of ARC-accelerated proton beams at the National Ignition Facility. <i>Physics of Plasmas</i> , 2019 , 26, 043110	2.1	21
127	Effect of target material on relativistic electron beam transport. <i>Physics of Plasmas</i> , 2019 , 26, 033111	2.1	3
126	A semi-analytic model of gas-puff liner-on-target magneto-inertial fusion. <i>Physics of Plasmas</i> , 2019 , 26, 032708	2.1	4
125	Optimization of laser-nanowire target interaction to increase the proton acceleration efficiency. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 065016	2	18
124	The response function of Fujifilm BAS-TR imaging plates to laser-accelerated titanium ions. <i>Review of Scientific Instruments</i> , 2019 , 90, 083302	1.7	8
123	Development of broadband x-ray radiography for diagnosing magnetically driven cylindrically compressed matter. <i>Physics of Plasmas</i> , 2019 , 26, 083104	2.1	3

122	Laser-driven acceleration of quasi-monoenergetic, near-collimated titanium ions via a transparency-enhanced acceleration scheme. <i>New Journal of Physics</i> , 2019 , 21, 103005	2.9	4
121	Self-Generated Magnetic and Electric Fields at a Mach-6 Shock Front in a Low Density Helium Gas by Dual-Angle Proton Radiography. <i>Physical Review Letters</i> , 2019 , 123, 215001	7.4	3
120	Characterization of a Liner-on-Target Gas Injector for Staged Z-Pinch Experiments. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3855-3863	1.3	7
119	Computational modeling of proton acceleration with multi-picosecond and high energy, kilojoule, lasers. <i>Physics of Plasmas</i> , 2018 , 25, 083109	2.1	17
118	High-angle deflection of the energetic electrons by a voluminous magnetic structure in near-normal intense laser-plasma interactions. <i>Physical Review E</i> , 2018 , 98,	2.4	5
117	Characterization of fast electron divergence and energy spectrum from modeling of angularly resolved bremsstrahlung measurements. <i>Physics of Plasmas</i> , 2018 , 25, 123103	2.1	8
116	. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3928-3967	1.3	38
115	Anomalous material-dependent transport of focused, laser-driven proton beams. <i>Scientific Reports</i> , 2018 , 8, 17538	4.9	2
114	Experimental evidence for the enhanced and reduced stopping regimes for protons propagating through hot plasmas. <i>Scientific Reports</i> , 2018 , 8, 14586	4.9	9
113	Soft X-ray backlighter source driven by a short-pulse laser for pump-probe characterization of warm dense matter. <i>Review of Scientific Instruments</i> , 2018 , 89, 10F122	1.7	1
112	Measurement of temperature and density using non-collective X-ray Thomson scattering in pulsed power produced warm dense plasmas. <i>Scientific Reports</i> , 2018 , 8, 8432	4.9	7
111	Laser-driven strong magnetostatic fields with applications to charged beam transport and magnetized high energy-density physics. <i>Physics of Plasmas</i> , 2018 , 25, 056705	2.1	34
110	A broadband proton backlighting platform to probe shock propagation in low-density systems. <i>Review of Scientific Instruments</i> , 2017 , 88, 013503	1.7	5
109	Investigation of laser pulse length and pre-plasma scale length impact on hot electron generation on OMEGA-EP. <i>New Journal of Physics</i> , 2017 , 19, 023008	2.9	18
108	Calibration and characterization of a highly efficient spectrometer in von Hamos geometry for 7-10 keV x-rays. <i>Review of Scientific Instruments</i> , 2017 , 88, 043110	1.7	13
107	Transport and spatial energy deposition of relativistic electrons in copper-doped fast ignition plasmas. <i>Physics of Plasmas</i> , 2017 , 24, 102710	2.1	5
106	Study of self-generated fields in strongly-shocked, low-density systems using broadband proton radiography. <i>Applied Physics Letters</i> , 2017 , 111, 034102	3.4	5
105	Heavy ion acceleration in the radiation pressure acceleration and breakout afterburner regimes. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 075003	2	11

104	Thermal conductivity measurements of proton-heated warm dense aluminum. <i>Scientific Reports</i> , 2017 , 7, 7015	4.9	24
103	Investigation of magnetic flux transport and shock formation in a staged Z-pinch. <i>Physics of Plasmas</i> , 2017 , 24, 102514	2.1	2
102	Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. <i>Physical Review Letters</i> , 2017 , 118, 205001	7.4	9
101	Enhanced hot-electron production and strong-shock generation in hydrogen-rich ablaters for shock ignition. <i>Physics of Plasmas</i> , 2017 , 24, 120702	2.1	10
100	Injector design for liner-on-target gas-puff experiments. <i>Review of Scientific Instruments</i> , 2017 , 88, 113509	0.7	3
99	Generation of Superponderomotive Electrons in Multipicosecond Interactions of Kilojoule Laser Beams with Solid-Density Plasmas. <i>Physical Review Letters</i> , 2016 , 116, 155001	7.4	42
98	Visualizing fast electron energy transport into laser-compressed high-density fast-ignition targets. <i>Nature Physics</i> , 2016 , 12, 499-504	16.2	40
97	Acceleration of high charge-state target ions in high-intensity laser interactions with sub-micron targets. <i>New Journal of Physics</i> , 2016 , 18, 113032	2.9	9
96	Characterization of laser-cut copper foil X-pinchs. <i>Physics of Plasmas</i> , 2016 , 23, 101212	2.1	6
95	Varying stopping and self-focusing of intense proton beams as they heat solid density matter. <i>Physics of Plasmas</i> , 2016 , 23, 043104	2.1	10
94	Shock formation in Ne, Ar, Kr, and Xe on deuterium gas puff implosions. <i>Physics of Plasmas</i> , 2016 , 23, 122706	2.1	6
93	Target material dependence of positron generation from high intensity laser-matter interactions. <i>Physics of Plasmas</i> , 2016 , 23, 123109	2.1	15
92	Proton acceleration from high-contrast short pulse lasers interacting with sub-micron thin foils. <i>Journal of Applied Physics</i> , 2016 , 119, 053302	2.5	6
91	Generation of heavy ion beams using femtosecond laser pulses in the target normal sheath acceleration and radiation pressure acceleration regimes. <i>Physics of Plasmas</i> , 2016 , 23, 063108	2.1	23
90	Spherical strong-shock generation for shock-ignition inertial fusion). <i>Physics of Plasmas</i> , 2015 , 22, 056310	10.1	42
89	Enhanced relativistic-electron-beam energy loss in warm dense aluminum. <i>Physical Review Letters</i> , 2015 , 114, 095004	7.4	21
88	Investigation of Current Transport in 2×2 Wire Array Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 2527-2531	1.3	2
87	Self-Consistent Simulation of Transport and Energy Deposition of Intense Laser-Accelerated Proton Beams in Solid-Density Matter. <i>Physical Review Letters</i> , 2015 , 115, 054801	7.4	27

86	Approach to the study of fast electron transport in cylindrically imploded targets. <i>Laser and Particle Beams</i> , 2015 , 33, 525-534	0.9	3
85	Gigabar spherical shock generation on the OMEGA laser. <i>Physical Review Letters</i> , 2015 , 114, 045001	7.4	86
84	Investigation of fast-electron-induced K α rays in laser-produced blow-off plasma. <i>Physical Review E</i> , 2014 , 89, 033105	2.4	5
83	Characterization of the fast electrons distribution produced in a high intensity laser target interaction. <i>Physics of Plasmas</i> , 2014 , 21, 031212	2.1	11
82	Fast electron energy transport in solid density and compressed plasma. <i>Nuclear Fusion</i> , 2014 , 54, 054004	3.3	44
81	Study of instability formation and EUV emission in thin liners driven with a compact 250 kA, 150 ns linear transformer driver. <i>Physics of Plasmas</i> , 2014 , 21, 031208	2.1	6
80	Time-resolved compression of a capsule with a cone to high density for fast-ignition laser fusion. <i>Nature Communications</i> , 2014 , 5, 5785	17.4	41
79	Effect of defocusing on picosecond laser-coupling into gold cones. <i>Physics of Plasmas</i> , 2014 , 21, 012702	2.1	1
78	Investigation into the dynamics of laser-cut foil X-pinchs and their potential use for high repetition rate operation. <i>Applied Physics Letters</i> , 2014 , 105, 024101	3.4	8
77	K α and bremsstrahlung x-ray radiation backlighter sources from short pulse laser driven silver targets as a function of laser pre-pulse energy. <i>Physics of Plasmas</i> , 2014 , 21, 031211	2.1	26
76	Measurement of pulsed-power-driven magnetic fields via proton deflectometry. <i>Applied Physics Letters</i> , 2014 , 105, 224103	3.4	12
75	Unraveling resistive versus collisional contributions to relativistic electron beam stopping power in cold-solid and in warm-dense plasmas. <i>Physics of Plasmas</i> , 2014 , 21, 033101	2.1	15
74	Effect of target material on fast-electron transport and resistive collimation. <i>Physical Review Letters</i> , 2013 , 110, 025001	7.4	36
73	Dynamics of high-energy proton beam acceleration and focusing from hemisphere-cone targets by high-intensity lasers. <i>Physical Review E</i> , 2013 , 87, 013108	2.4	38
72	Collisional particle-in-cell modeling for energy transport accompanied by atomic processes in dense plasmas. <i>Physics of Plasmas</i> , 2013 , 20, 072704	2.1	25
71	Improved laser-to-proton conversion efficiency in isolated reduced mass targets. <i>Applied Physics Letters</i> , 2013 , 103, 054102	3.4	7
70	Study of X-pinch dynamics using a low current (25 kA) and slower current (400 ns) pulse. <i>Physics of Plasmas</i> , 2013 , 20, 042704	2.1	13
69	Supra-thermal electron beam stopping power and guiding in dense plasmas. <i>Journal of Plasma Physics</i> , 2013 , 79, 429-435	2.7	8

68	Temporally resolved characterization of shock-heated foam target with Al absorption spectroscopy for fast electron transport study. <i>Physics of Plasmas</i> , 2012 , 19, 092705	2.1	0
67	Dynamics of relativistic laser-plasma interaction on solid targets. <i>Physical Review Letters</i> , 2012 , 109, 145906	3.5	35
66	Electron and ion dynamics during the expansion of a laser-heated plasma under vacuum. <i>Physics of Plasmas</i> , 2012 , 19, 033109	2.1	10
65	Characterizing the energy distribution of laser-generated relativistic electrons in cone-wire targets. <i>Physics of Plasmas</i> , 2012 , 19, 103108	2.1	13
64	Mechanism of heating of pre-formed plasma electrons in relativistic laser-matter interaction. <i>Physics of Plasmas</i> , 2012 , 19, 060703	2.1	35
63	Effect of the global to local magnetic field ratio on the ablation modulations on X-pinch driven by 80 kA peak current. <i>New Journal of Physics</i> , 2012 , 14, 043021	2.9	11
62	Generation of high-energy (>15 MeV) neutrons using short pulse high intensity lasers. <i>Physics of Plasmas</i> , 2012 , 19, 093106	2.1	22
61	Relativistic high-current electron-beam stopping-power characterization in solids and plasmas: collisional versus resistive effects. <i>Physical Review Letters</i> , 2012 , 109, 255002	7.4	32
60	Hot electron temperature and coupling efficiency scaling with prepulse for cone-guided fast ignition. <i>Physical Review Letters</i> , 2012 , 108, 115004	7.4	52
59	Mapping return currents in laser-generated Z-pinch plasmas using proton deflectometry. <i>Applied Physics Letters</i> , 2012 , 100, 203505	3.4	18
58	Proton trajectories and electric fields in a laser-accelerated focused proton beam. <i>Physics of Plasmas</i> , 2012 , 19, 056702	2.1	13
57	Numerical modeling of fast electron generation in the presence of preformed plasma in laser-matter interaction at relativistic intensities. <i>Physical Review E</i> , 2011 , 83, 046401	2.4	53
56	Initial cone-in-shell fast-ignition experiments on OMEGAa). <i>Physics of Plasmas</i> , 2011 , 18, 056305	2.1	72
55	250 kA compact linear transformer driver for wire array z-pinch loads. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011 , 14,		21
54	Supersonic jet formation and propagation in x-pinch. <i>Astrophysics and Space Science</i> , 2011 , 336, 33-40	1.6	21
53	Magnetically guided fast electrons in cylindrically compressed matter. <i>Physical Review Letters</i> , 2011 , 107, 065004	7.4	43
52	Proton Focusing Characteristics Relevant to Fast Ignition. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2818-2819	1.3	3
51	Laser-driven cylindrical compression of targets for fast electron transport study in warm and dense plasmas. <i>Physics of Plasmas</i> , 2011 , 18, 043108	2.1	14

50	Fast electron temperature and conversion efficiency measurements in laser-irradiated foil targets using a bremsstrahlung x-ray detector. <i>Physics of Plasmas</i> , 2011 , 18, 063101	2.1	24
49	Production of neutrons up to 18 MeV in high-intensity, short-pulse laser matter interactions. <i>Physics of Plasmas</i> , 2011 , 18, 100703	2.1	56
48	Advanced Laser Particle Accelerator Development at LANL: From Fast Ignition to Radiation Oncology 2010 ,		1
47	Limitation on prepulse level for cone-guided fast-ignition inertial confinement fusion. <i>Physical Review Letters</i> , 2010 , 104, 055002	7.4	90
46	Laser generated neutron source for neutron resonance spectroscopy. <i>Physics of Plasmas</i> , 2010 , 17, 100701	2.1	48
45	Single-shot divergence measurements of a laser-generated relativistic electron beam. <i>Physics of Plasmas</i> , 2010 , 17, 113106	2.1	11
44	Transport study of intense-laser-produced fast electrons in solid targets with a preplasma created by a long pulse laser. <i>Physics of Plasmas</i> , 2010 , 17, 060704	2.1	35
43	Study of silver K α and bremsstrahlung radiation from short-pulse laser-matter interactions with applications for x-ray radiography. <i>Physics of Plasmas</i> , 2010 , 17, 082703	2.1	18
42	Study of the effect of current rise time on the formation of the precursor column in cylindrical wire array Z pinches at 1 MA. <i>Physics of Plasmas</i> , 2009 , 16, 072701	2.1	19
41	X-ray spectroscopy of buried layer foils irradiated at laser intensities in excess of 1020 W/cm ² . <i>Physics of Plasmas</i> , 2009 , 16, 062701	2.1	10
40	Observations of proton beam enhancement due to erbium hydride on gold foil targets. <i>Physics of Plasmas</i> , 2009 , 16, 093113	2.1	14
39	Studies on the transport of high intensity laser-generated hot electrons in cone coupled wire targets. <i>Physics of Plasmas</i> , 2009 , 16, 020701	2.1	43
38	Transport of energy by ultraintense laser-generated electrons in nail-wire targets. <i>Physics of Plasmas</i> , 2009 , 16, 112702	2.1	17
37	Bremsstrahlung and K α fluorescence measurements for inferring conversion efficiencies into fast ignition relevant hot electrons. <i>Physics of Plasmas</i> , 2009 , 16, 082705	2.1	77
36	Laser-accelerated proton conversion efficiency thickness scaling. <i>Physics of Plasmas</i> , 2009 , 16, 123108	2.1	13
35	Intense laser-plasma interactions: New frontiers in high energy density physics. <i>Physics of Plasmas</i> , 2009 , 16, 041002	2.1	40
34	Measurements of fast electron scaling generated by petawatt laser systems. <i>Physics of Plasmas</i> , 2009 , 16, 062703	2.1	38
33	Hot-electron temperature and laser-light absorption in fast ignition. <i>Physical Review Letters</i> , 2009 , 102, 045008	7.4	147

32	Study of relativistic electron beam production and transport in high-intensity laser interaction with a wire target by integrated LSP modeling. <i>Physics of Plasmas</i> , 2008 , 15, 083101	2.1	21
31	Effect of laser intensity on fast-electron-beam divergence in solid-density plasmas. <i>Physical Review Letters</i> , 2008 , 100, 015003	7.4	168
30	Absolute calibration of image plates for electrons at energy between 100 keV and 4 MeV. <i>Review of Scientific Instruments</i> , 2008 , 79, 033301	1.7	48
29	Cross-point coronal plasma dynamics in two- and four-wire x-pinch. <i>Physics of Plasmas</i> , 2008 , 15, 112701	2.1	8
28	A Bremsstrahlung spectrometer using k-edge and differential filters with image plate dosimeters. <i>Review of Scientific Instruments</i> , 2008 , 79, 10E305	1.7	85
27	Fast electron generation in cones with ultraintense laser pulses. <i>Physics of Plasmas</i> , 2008 , 15, 056304	2.1	47
26	Determination of electron-heated temperatures of petawatt laser-irradiated foil targets with 256 and 68 eV extreme ultraviolet imaging. <i>Review of Scientific Instruments</i> , 2008 , 79, 093507	1.7	3
25	Heating of solid target in electron refluxing dominated regime with ultra-intense laser. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 022063	0.3	7
24	Surface heating of wire plasmas using laser-irradiated cone geometries. <i>Nature Physics</i> , 2007 , 3, 853-856	16.2	41
23	Comparison of sensitivities of Moiré deflectometry and interferometry to measure electron densities in z-pinch plasmas. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2026-2032	3	28
22	Clark et al. Reply. <i>Physical Review Letters</i> , 2006 , 96,	7.4	4
21	Effect of wire number on x-pinch discharges. <i>Applied Physics Letters</i> , 2006 , 88, 261501	3.4	13
20	Three-channel x-ray crystal spectrometer for diagnosing high energy density plasmas. <i>Review of Scientific Instruments</i> , 2006 , 77, 103104	1.7	6
19	Compact X-pinch based point x-ray source for phase contrast imaging of inertial confinement fusion capsules. <i>Applied Physics Letters</i> , 2006 , 89, 101502	3.4	41
18	Overview of recent progress in US fast ignition research. <i>European Physical Journal Special Topics</i> , 2006 , 133, 95-100		5
17	Demonstration of fusion-evaporation and direct-interaction nuclear reactions using high-intensity laser-plasma-accelerated ion beams. <i>Physical Review Letters</i> , 2003 , 91, 075006	7.4	61
16	Table-top X-pinch for x-ray radiography. <i>Applied Physics Letters</i> , 2003 , 82, 4602-4604	3.4	49
15	The effect of current prepulse on wire array Z-pinch implosions. <i>Physics of Plasmas</i> , 2002 , 9, 375-377	2.1	30

14	Effect of discrete wires on the implosion dynamics of wire array Z pinches. <i>Physics of Plasmas</i> , 2001 , 8, 3734-3747	2.1	270
13	X-ray backlighting of wire array Z-pinch implosions using X pinch. <i>Review of Scientific Instruments</i> , 2001 , 72, 671-673	1.7	78
12	Energetic proton production from relativistic laser interaction with high density plasmas. <i>Physics of Plasmas</i> , 2000 , 7, 2055-2061	2.1	105
11	Energetic heavy-Ion and proton generation from ultraintense laser-plasma interactions with solids. <i>Physical Review Letters</i> , 2000 , 85, 1654-7	7.4	407
10	Study of x-ray emission from a table top plasma focus and its application as an x-ray backlighter. <i>Journal of Applied Physics</i> , 2000 , 88, 3225-3230	2.5	93
9	Measurements of energetic proton transport through magnetized plasma from intense laser interactions with solids. <i>Physical Review Letters</i> , 2000 , 84, 670-3	7.4	595
8	Titanium K-shell x-ray production from high velocity wire array implosions on the 20-MA Z accelerator. <i>Physics of Plasmas</i> , 1999 , 6, 2081-2088	2.1	53
7	Radiative properties of high wire number tungsten arrays with implosion times up to 250 ns. <i>Physics of Plasmas</i> , 1999 , 6, 3576-3586	2.1	34
6	Z-pinch discharges in aluminum and tungsten wires. <i>Physics of Plasmas</i> , 1999 , 6, 2579-2587	2.1	26
5	Plasma Formation on the Front and Rear of Plastic Targets due to High-Intensity Laser-Generated Fast Electrons. <i>Physical Review Letters</i> , 1998 , 81, 999-1002	7.4	121
4	Optical and x-ray observations of carbon and aluminium fibreZ-pinch plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1997 , 39, 1-25	2	51
3	A study of picosecond laser-solid interactions up to 10^{19} W cm ⁻² . <i>Physics of Plasmas</i> , 1997 , 4, 447-457	2.1	537
2	Plasma ion emission from high intensity picosecond laser pulse interactions with solid targets. <i>Physical Review Letters</i> , 1994 , 73, 1801-1804	7.4	171
1	Effect of insulator sleeve material on neutron emission from a plasma focus. <i>Physica Scripta</i> , 1992 , 46, 152-154	2.6	23