

# F N Beg

## List of Publications by Citations

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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	Measurements of energetic proton transport through magnetized plasma from intense laser interactions with solids. <i>Physical Review Letters</i> , <b>2000</b> , 84, 670-3	7.4	595
156	A study of picosecond laser-solid interactions up to $10^{19}$ W cm <sup>-2</sup> . <i>Physics of Plasmas</i> , <b>1997</b> , 4, 447-457	2.1	537
155	Energetic heavy-ion and proton generation from ultraintense laser-plasma interactions with solids. <i>Physical Review Letters</i> , <b>2000</b> , 85, 1654-7	7.4	407
154	Effect of discrete wires on the implosion dynamics of wire array Z pinches. <i>Physics of Plasmas</i> , <b>2001</b> , 8, 3734-3747	2.1	270
153	Plasma ion emission from high intensity picosecond laser pulse interactions with solid targets. <i>Physical Review Letters</i> , <b>1994</b> , 73, 1801-1804	7.4	171
152	Effect of laser intensity on fast-electron-beam divergence in solid-density plasmas. <i>Physical Review Letters</i> , <b>2008</b> , 100, 015003	7.4	168
151	Hot-electron temperature and laser-light absorption in fast ignition. <i>Physical Review Letters</i> , <b>2009</b> , 102, 045008	7.4	147
150	Plasma Formation on the Front and Rear of Plastic Targets due to High-Intensity Laser-Generated Fast Electrons. <i>Physical Review Letters</i> , <b>1998</b> , 81, 999-1002	7.4	121
149	Energetic proton production from relativistic laser interaction with high density plasmas. <i>Physics of Plasmas</i> , <b>2000</b> , 7, 2055-2061	2.1	105
148	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> , <b>2000</b> , 88, 3225-3230	2.5	93
147	Limitation on prepulse level for cone-guided fast-ignition inertial confinement fusion. <i>Physical Review Letters</i> , <b>2010</b> , 104, 055002	7.4	90
146	Gigabar spherical shock generation on the OMEGA laser. <i>Physical Review Letters</i> , <b>2015</b> , 114, 045001	7.4	86
145	A Bremsstrahlung spectrometer using k-edge and differential filters with image plate dosimeters. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 10E305	1.7	85
144	X-ray backlighting of wire array Z-pinch implosions using X pinch. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 671-673	1.7	78
143	Bremsstrahlung and K-fluorescence measurements for inferring conversion efficiencies into fast ignition relevant hot electrons. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 082705	2.1	77
142	Initial cone-in-shell fast-ignition experiments on OMEGA. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 056305	2.1	72
141	Demonstration of fusion-evaporation and direct-interaction nuclear reactions using high-intensity laser-plasma-accelerated ion beams. <i>Physical Review Letters</i> , <b>2003</b> , 91, 075006	7.4	61

140	Production of neutrons up to 18 MeV in high-intensity, short-pulse laser matter interactions. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 100703	2.1	56
139	Numerical modeling of fast electron generation in the presence of preformed plasma in laser-matter interaction at relativistic intensities. <i>Physical Review E</i> , <b>2011</b> , 83, 046401	2.4	53
138	Titanium K-shell x-ray production from high velocity wire array implosions on the 20-MA Z accelerator. <i>Physics of Plasmas</i> , <b>1999</b> , 6, 2081-2088	2.1	53
137	Hot electron temperature and coupling efficiency scaling with prepulse for cone-guided fast ignition. <i>Physical Review Letters</i> , <b>2012</b> , 108, 115004	7.4	52
136	Optical and x-ray observations of carbon and aluminium fibre Z-pinch plasmas. <i>Plasma Physics and Controlled Fusion</i> , <b>1997</b> , 39, 1-25	2	51
135	Table-top X-pinch for x-ray radiography. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4602-4604	3.4	49
134	Laser generated neutron source for neutron resonance spectroscopy. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 100701	2.1	48
133	Absolute calibration of image plates for electrons at energy between 100 keV and 4 MeV. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 033301	1.7	48
132	Fast electron generation in cones with ultraintense laser pulses. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 056304	2.1	47
131	Fast electron energy transport in solid density and compressed plasma. <i>Nuclear Fusion</i> , <b>2014</b> , 54, 054004	3.3	44
130	Magnetically guided fast electrons in cylindrically compressed matter. <i>Physical Review Letters</i> , <b>2011</b> , 107, 065004	7.4	43
129	Studies on the transport of high intensity laser-generated hot electrons in cone coupled wire targets. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 020701	2.1	43
128	Spherical strong-shock generation for shock-ignition inertial fusion. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 056310	2.1	42
127	Generation of Superponderomotive Electrons in Multipicosecond Interactions of Kilojoule Laser Beams with Solid-Density Plasmas. <i>Physical Review Letters</i> , <b>2016</b> , 116, 155001	7.4	42
126	Time-resolved compression of a capsule with a cone to high density for fast-ignition laser fusion. <i>Nature Communications</i> , <b>2014</b> , 5, 5785	17.4	41
125	Surface heating of wire plasmas using laser-irradiated cone geometries. <i>Nature Physics</i> , <b>2007</b> , 3, 853-856	16.2	41
124	Compact X-pinch based point x-ray source for phase contrast imaging of inertial confinement fusion capsules. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 101502	3.4	41
123	Visualizing fast electron energy transport into laser-compressed high-density fast-ignition targets. <i>Nature Physics</i> , <b>2016</b> , 12, 499-504	16.2	40

122	Intense laser-plasma interactions: New frontiers in high energy density physics. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 041002	2.1	40
121	Dynamics of high-energy proton beam acceleration and focusing from hemisphere-cone targets by high-intensity lasers. <i>Physical Review E</i> , <b>2013</b> , 87, 013108	2.4	38
120	Measurements of fast electron scaling generated by petawatt laser systems. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 062703	2.1	38
119	. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 3928-3967	1.3	38
118	Effect of target material on fast-electron transport and resistive collimation. <i>Physical Review Letters</i> , <b>2013</b> , 110, 025001	7.4	36
117	Dynamics of relativistic laser-plasma interaction on solid targets. <i>Physical Review Letters</i> , <b>2012</b> , 109, 145006	7.4	35
116	Mechanism of heating of pre-formed plasma electrons in relativistic laser-matter interaction. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 060703	2.1	35
115	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> , <b>2010</b> , 17, 060704	2.1	35
114	Radiative properties of high wire number tungsten arrays with implosion times up to 250 ns. <i>Physics of Plasmas</i> , <b>1999</b> , 6, 3576-3586	2.1	34
113	Laser-driven strong magnetostatic fields with applications to charged beam transport and magnetized high energy-density physics. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 056705	2.1	34
112	Relativistic high-current electron-beam stopping-power characterization in solids and plasmas: collisional versus resistive effects. <i>Physical Review Letters</i> , <b>2012</b> , 109, 255002	7.4	32
111	The effect of current prepulse on wire array Z-pinch implosions. <i>Physics of Plasmas</i> , <b>2002</b> , 9, 375-377	2.1	30
110	Comparison of sensitivities of Moiré deflectometry and interferometry to measure electron densities in Z-pinch plasmas. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 2026-2032	3	28
109	Self-Consistent Simulation of Transport and Energy Deposition of Intense Laser-Accelerated Proton Beams in Solid-Density Matter. <i>Physical Review Letters</i> , <b>2015</b> , 115, 054801	7.4	27
108	K $\alpha$ 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> , <b>2014</b> , 21, 031211	2.1	26
107	Z-pinch discharges in aluminum and tungsten wires. <i>Physics of Plasmas</i> , <b>1999</b> , 6, 2579-2587	2.1	26
106	Collisional particle-in-cell modeling for energy transport accompanied by atomic processes in dense plasmas. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 072704	2.1	25
105	Thermal conductivity measurements of proton-heated warm dense aluminum. <i>Scientific Reports</i> , <b>2017</b> , 7, 7015	4.9	24

104	Fast electron temperature and conversion efficiency measurements in laser-irradiated foil targets using a bremsstrahlung x-ray detector. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 063101	2.1	24
103	Effect of insulator sleeve material on neutron emission from a plasma focus. <i>Physica Scripta</i> , <b>1992</b> , 46, 152-154	2.6	23
102	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> , <b>2016</b> , 23, 063108	2.1	23
101	Generation of high-energy (>15 MeV) neutrons using short pulse high intensity lasers. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 093106	2.1	22
100	First demonstration of ARC-accelerated proton beams at the National Ignition Facility. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 043110	2.1	21
99	Enhanced relativistic-electron-beam energy loss in warm dense aluminum. <i>Physical Review Letters</i> , <b>2015</b> , 114, 095004	7.4	21
98	250 kA compact linear transformer driver for wire array z-pinch loads. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2011</b> , 14,		21
97	Supersonic jet formation and propagation in x-pinch. <i>Astrophysics and Space Science</i> , <b>2011</b> , 336, 33-40	1.6	21
96	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> , <b>2008</b> , 15, 083101	2.1	21
95	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> , <b>2009</b> , 16, 072701	2.1	19
94	Investigation of laser pulse length and pre-plasma scale length impact on hot electron generation on OMEGA-EP. <i>New Journal of Physics</i> , <b>2017</b> , 19, 023008	2.9	18
93	Optimization of laser-nanowire target interaction to increase the proton acceleration efficiency. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 065016	2	18
92	Study of silver K $\alpha$ and bremsstrahlung radiation from short-pulse laser-matter interactions with applications for x-ray radiography. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 082703	2.1	18
91	Mapping return currents in laser-generated Z-pinch plasmas using proton deflectometry. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 203505	3.4	18
90	Computational modeling of proton acceleration with multi-picosecond and high energy, kilojoule, lasers. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 083109	2.1	17
89	Transport of energy by ultraintense laser-generated electrons in nail-wire targets. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 112702	2.1	17
88	Unraveling resistive versus collisional contributions to relativistic electron beam stopping power in cold-solid and in warm-dense plasmas. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 033101	2.1	15
87	Target material dependence of positron generation from high intensity laser-matter interactions. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 123109	2.1	15

86	Observations of proton beam enhancement due to erbium hydride on gold foil targets. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 093113	2.1	14
85	Laser-driven cylindrical compression of targets for fast electron transport study in warm and dense plasmas. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 043108	2.1	14
84	Calibration and characterization of a highly efficient spectrometer in von Hamos geometry for 7-10 keV x-rays. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 043110	1.7	13
83	Characterizing the energy distribution of laser-generated relativistic electrons in cone-wire targets. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 103108	2.1	13
82	Study of X-pinch dynamics using a low current (25 kA) and slower current (400 ns) pulse. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 042704	2.1	13
81	Laser-accelerated proton conversion efficiency thickness scaling. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 123108	2.1	13
80	Proton trajectories and electric fields in a laser-accelerated focused proton beam. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 056702	2.1	13
79	Effect of wire number on x-pinch discharges. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 261501	3.4	13
78	Measurement of pulsed-power-driven magnetic fields via proton deflectometry. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 224103	3.4	12
77	Characterization of the fast electrons distribution produced in a high intensity laser target interaction. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 031212	2.1	11
76	Heavy ion acceleration in the radiation pressure acceleration and breakout afterburner regimes. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 075003	2	11
75	Single-shot divergence measurements of a laser-generated relativistic electron beam. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 113106	2.1	11
74	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> , <b>2012</b> , 14, 043021	2.9	11
73	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> , <b>2020</b> , 27, 012702	2.1	10
72	Enhanced hot-electron production and strong-shock generation in hydrogen-rich ablators for shock ignition. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 120702	2.1	10
71	Electron and ion dynamics during the expansion of a laser-heated plasma under vacuum. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 033109	2.1	10
70	X-ray spectroscopy of buried layer foils irradiated at laser intensities in excess of 1020 W/cm <sup>2</sup> . <i>Physics of Plasmas</i> , <b>2009</b> , 16, 062701	2.1	10
69	Varying stopping and self-focusing of intense proton beams as they heat solid density matter. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 043104	2.1	10

68	Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. <i>Physical Review Letters</i> , <b>2017</b> , 118, 205001	7.4	9
67	Ion acceleration from microstructured targets irradiated by high-intensity picosecond laser pulses. <i>Physical Review E</i> , <b>2020</b> , 102, 021201	2.4	9
66	Acceleration of high charge-state target ions in high-intensity laser interactions with sub-micron targets. <i>New Journal of Physics</i> , <b>2016</b> , 18, 113032	2.9	9
65	Experimental evidence for the enhanced and reduced stopping regimes for protons propagating through hot plasmas. <i>Scientific Reports</i> , <b>2018</b> , 8, 14586	4.9	9
64	Ar and Kr on deuterium gas-puff staged Z-pinch implosions on a 1-MA driver: Experiment and simulation. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 052706	2.1	8
63	The response function of Fujifilm BAS-TR imaging plates to laser-accelerated titanium ions. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 083302	1.7	8
62	Investigation into the dynamics of laser-cut foil X-pinches and their potential use for high repetition rate operation. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 024101	3.4	8
61	Supra-thermal electron beam stopping power and guiding in dense plasmas. <i>Journal of Plasma Physics</i> , <b>2013</b> , 79, 429-435	2.7	8
60	Cross-point coronal plasma dynamics in two- and four-wire x-pinches. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 112701	2.1	8
59	MA-class linear transformer driver for Z-pinch research. <i>Physical Review Accelerators and Beams</i> , <b>2020</b> , 23,	1.8	8
58	Focussing Protons from a Kilojoule Laser for Intense Beam Heating using Proximal Target Structures. <i>Scientific Reports</i> , <b>2020</b> , 10, 9415	4.9	8
57	Characterization of fast electron divergence and energy spectrum from modeling of angularly resolved bremsstrahlung measurements. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 123103	2.1	8
56	Experimental study of hot electron generation in shock ignition relevant high-intensity regime with large scale hot plasmas. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 023111	2.1	7
55	Characterization of a Liner-on-Target Gas Injector for Staged Z-Pinch Experiments. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 3855-3863	1.3	7
54	Improved laser-to-proton conversion efficiency in isolated reduced mass targets. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 054102	3.4	7
53	Heating of solid target in electron refluxing dominated regime with ultra-intense laser. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 112, 022063	0.3	7
52	Measurement of temperature and density using non-collective X-ray Thomson scattering in pulsed power produced warm dense plasmas. <i>Scientific Reports</i> , <b>2018</b> , 8, 8432	4.9	7
51	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> , <b>2014</b> , 21, 031208	2.1	6

50	Three-channel x-ray crystal spectrometer for diagnosing high energy density plasmas. <i>Review of Scientific Instruments</i> , <b>2006</b> , 77, 103104	1.7	6
49	Characterization of laser-cut copper foil X-pinchs. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 101212	2.1	6
48	Shock formation in Ne, Ar, Kr, and Xe on deuterium gas puff implosions. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 122706	2.1	6
47	Proton acceleration from high-contrast short pulse lasers interacting with sub-micron thin foils. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 053302	2.5	6
46	Direct comparison of wire, foil, and hybrid X-pinchs on a 200 kA, 150 ns current driver. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 073301	2.5	6
45	A broadband proton backlighting platform to probe shock propagation in low-density systems. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 013503	1.7	5
44	Transport and spatial energy deposition of relativistic electrons in copper-doped fast ignition plasmas. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 102710	2.1	5
43	Investigation of fast-electron-induced K $\alpha$ rays in laser-produced blow-off plasma. <i>Physical Review E</i> , <b>2014</b> , 89, 033105	2.4	5
42	Study of self-generated fields in strongly-shocked, low-density systems using broadband proton radiography. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 034102	3.4	5
41	Overview of recent progress in US fast ignition research. <i>European Physical Journal Special Topics</i> , <b>2006</b> , 133, 95-100		5
40	High-angle deflection of the energetic electrons by a voluminous magnetic structure in near-normal intense laser-plasma interactions. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	5
39	A semi-analytic model of gas-puff liner-on-target magneto-inertial fusion. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 032708	2.1	4
38	Laser-driven acceleration of quasi-monoenergetic, near-collimated titanium ions via a transparency-enhanced acceleration scheme. <i>New Journal of Physics</i> , <b>2019</b> , 21, 103005	2.9	4
37	Clark et al. Reply:. <i>Physical Review Letters</i> , <b>2006</b> , 96,	7.4	4
36	Mitigation of magneto-Rayleigh-Taylor instability growth in a triple-nozzle, neutron-producing gas-puff Z pinch. <i>Physical Review E</i> , <b>2021</b> , 104, L023201	2.4	4
35	Effect of target material on relativistic electron beam transport. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 033111	2.1	3
34	Pump depletion and hot-electron generation in long-density-scale-length plasma with shock-ignition high-intensity laser. <i>Physical Review E</i> , <b>2020</b> , 101, 033206	2.4	3
33	Role of collisionality and radiative cooling in supersonic plasma jet collisions of different materials. <i>Physical Review E</i> , <b>2020</b> , 101, 023205	2.4	3



32	Development of broadband x-ray radiography for diagnosing magnetically driven cylindrically compressed matter. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 083104	2.1	3
31	Injector design for liner-on-target gas-puff experiments. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 113509	0.7	3
30	Approach to the study of fast electron transport in cylindrically imploded targets. <i>Laser and Particle Beams</i> , <b>2015</b> , 33, 525-534	0.9	3
29	Proton Focusing Characteristics Relevant to Fast Ignition. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 2818-2819	1.3	3
28	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> , <b>2008</b> , 79, 093507	1.7	3
27	Effect of krypton admixture in deuterium on neutron yield in a megaampere dense plasma focus. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 143302	2.5	3
26	Talbot-Lau x-ray deflectometer: Refraction-based HEDP imaging diagnostic. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 065110	1.7	3
25	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> , <b>2019</b> , 123, 215001	7.4	3
24	Gated liquid scintillator detector for neutron time of flight measurements in a gas-puff Z-pinch experiment. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 073505	1.7	2
23	Investigation of Current Transport in $2 \times 2$ Wire Array Plasmas. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 2527-2531	1.3	2
22	Characterization of an imploding cylindrical plasma for electron transport studies using x-ray emission spectroscopy. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 023302	2.1	2
21	Laser reflection as a catalyst for direct laser acceleration in multipicosecond laser-plasma interaction. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 013106	2.1	2
20	Investigation of magnetic flux transport and shock formation in a staged Z-pinch. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 102514	2.1	2
19	Anomalous material-dependent transport of focused, laser-driven proton beams. <i>Scientific Reports</i> , <b>2018</b> , 8, 17538	4.9	2
18	Dynamics and energy coupling of gas puff Z-pinches on a fast linear transformer driver. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 023301	2.5	2
17	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> , <b>2021</b> , 28, 093109	2.1	2
16	Transport of kJ-laser-driven relativistic electron beams in cold and shock-heated vitreous carbon and diamond. <i>New Journal of Physics</i> , <b>2020</b> , 22, 033031	2.9	1
15	Effect of defocusing on picosecond laser-coupling into gold cones. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 012702	2.1	1

14	Advanced Laser Particle Accelerator Development at LANL: From Fast Ignition to Radiation Oncology <b>2010</b> ,		1
13	Wire, hybrid, and laser-cut X-pinch as Talbot-Pau backlighters for electron density diagnostics. <i>Plasma Physics and Controlled Fusion</i> , <b>2022</b> , 64, 035011	2	1
12	Fast electron transport dynamics and energy deposition in magnetized, imploded cylindrical plasma. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200052	3	1
11	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> , <b>2021</b> , 129, 223303	2.5	1
10	Magnetohydrodynamic simulations of a megaampere-class Kr-doped deuterium dense plasma focus. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 022707	2.1	1
9	Electron acceleration at oblique angles via stimulated Raman scattering at laser irradiance $>10^{16} \text{ W cm}^{-2} \text{ m}^2$ . <i>Physical Review E</i> , <b>2021</b> , 103, 033203	2.4	1
8	A quasi-monoenergetic short time duration compact proton source for probing high energy density states of matter. <i>Scientific Reports</i> , <b>2021</b> , 11, 6881	4.9	1
7	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> , <b>2018</b> , 89, 10F122	1.7	1
6	Material effects on dynamics in triple-nozzle gas-puff Z pinches.. <i>Physical Review E</i> , <b>2022</b> , 105, 045205	2.4	1
5	Temporally resolved characterization of shock-heated foam target with Al absorption spectroscopy for fast electron transport study. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 092705	2.1	0
4	Dynamic focusing of laser driven positron jets by self-generated fields. <i>New Journal of Physics</i> , <b>2020</b> , 22, 123020	2.9	0
3	The effects of laser pulse length and collisional ionization on the acceleration of titanium ions. <i>Plasma Physics and Controlled Fusion</i> , <b>2021</b> , 63, 065011	2	
2	Azimuthal magnetic field distribution in gas-puff Z-pinch implosions with and without external magnetic stabilization. <i>Physical Review E</i> , <b>2021</b> , 103, 053205	2.4	
1	Pump-depletion dynamics and saturation of stimulated Brillouin scattering in shock ignition relevant experiments. <i>Physical Review E</i> , <b>2021</b> , 103, 063208	2.4	