

T E Cowan

List of Publications by Year in descending order

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315
papers

17,660
citations

22153

59
h-index

13771

129
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324
all docs

324
docs citations

324
times ranked

4992
citing authors

#	ARTICLE	IF	CITATIONS
1	Energetic proton generation in ultra-intense laser–solid interactions. <i>Physics of Plasmas</i> , 2001, 8, 542-549.	1.9	1,504
2	Intense High-Energy Proton Beams from Petawatt-Laser Irradiation of Solids. <i>Physical Review Letters</i> , 2000, 85, 2945-2948.	7.8	1,495
3	Fast Ignition by Intense Laser-Accelerated Proton Beams. <i>Physical Review Letters</i> , 2001, 86, 436-439.	7.8	1,154
4	Electron, photon, and ion beams from the relativistic interaction of Petawatt laser pulses with solid targets. <i>Physics of Plasmas</i> , 2000, 7, 2076-2082.	1.9	920
5	Nuclear fusion from explosions of femtosecond laser-heated deuterium clusters. <i>Nature</i> , 1999, 398, 489-492.	27.8	738
6	Isochoric Heating of Solid-Density Matter with an Ultrafast Proton Beam. <i>Physical Review Letters</i> , 2003, 91, 125004.	7.8	528
7	Ultralow Emittance, Multi-MeV Proton Beams from a Laser Virtual-Cathode Plasma Accelerator. <i>Physical Review Letters</i> , 2004, 92, 204801.	7.8	494
8	MeV Ion Jets from Short-Pulse-Laser Interaction with Thin Foils. <i>Physical Review Letters</i> , 2002, 89, 085002.	7.8	389
9	Hot electron production and heating by hot electrons in fast ignitor research. <i>Physics of Plasmas</i> , 1998, 5, 1966-1972.	1.9	370
10	Observation of correlated narrow-peak structures in positron and electron spectra from superheavy collision systems. <i>Physical Review Letters</i> , 1986, 56, 444-447.	7.8	338
11	Observation of a Peak Structure in Positron Spectra from U+Cm Collisions. <i>Physical Review Letters</i> , 1983, 51, 2261-2264.	7.8	320
12	Anomalous Positron Peaks from Supercritical Collision Systems. <i>Physical Review Letters</i> , 1985, 54, 1761-1764.	7.8	290
13	Nuclear Fusion Driven by Coulomb Explosions of Large Deuterium Clusters. <i>Physical Review Letters</i> , 2000, 84, 2634-2637.	7.8	278
14	High energy proton acceleration in interaction of short laser pulse with dense plasma target. <i>Physics of Plasmas</i> , 2003, 10, 2009-2015.	1.9	257
15	Dynamics of Electric Fields Driving the Laser Acceleration of Multi-MeV Protons. <i>Physical Review Letters</i> , 2005, 95, 195001.	7.8	248
16	Photonuclear Fission from High Energy Electrons from Ultraintense Laser-Solid Interactions. <i>Physical Review Letters</i> , 2000, 84, 903-906.	7.8	232
17	$K\alpha$ fluorescence measurement of relativistic electron transport in the context of fast ignition. <i>Physical Review E</i> , 2004, 69, 066414.	2.1	225
18	Energetic ions generated by laser pulses: A detailed study on target properties. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2002, 5, .	1.8	205

#	ARTICLE	IF	CITATIONS
19	Laser light and hot electron micro focusing using a conical target. <i>Physics of Plasmas</i> , 2004, 11, 3083-3087.	1.9	184
20	The scaling of proton energies in ultrashort pulse laser plasma acceleration. <i>New Journal of Physics</i> , 2010, 12, 045015.	2.9	180
21	Laboratory formation of a scaled protostellar jet by coaligned poloidal magnetic field. <i>Science</i> , 2014, 346, 325-328.	12.6	173
22	The use of an electron beam ion trap in the study of highly charged ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989, 43, 431-440.	1.4	170
23	Plasma devices to guide and collimate a high density of MeV electrons. <i>Nature</i> , 2004, 432, 1005-1008.	27.8	170
24	Spatial Uniformity of Laser-Accelerated Ultrahigh-Current MeV Electron Propagation in Metals and Insulators. <i>Physical Review Letters</i> , 2003, 91, 255002.	7.8	166
25	Characterization of Fusion Burn Time in Exploding Deuterium Cluster Plasmas. <i>Physical Review Letters</i> , 2000, 85, 3640-3643.	7.8	155
26	Dose-dependent biological damage of tumour cells by laser-accelerated proton beams. <i>New Journal of Physics</i> , 2010, 12, 085003.	2.9	154
27	Increased laser-accelerated proton energies via direct laser-light-pressure acceleration of electrons in microcone targets. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	149
28	High energy electrons, nuclear phenomena and heating in petawatt laser-solid experiments. <i>Laser and Particle Beams</i> , 1999, 17, 773-783.	1.0	143
29	PIConGPU: A Fully Relativistic Particle-in-Cell Code for a GPU Cluster. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 2831-2839.	1.3	129
30	Fusion neutron and ion emission from deuterium and deuterated methane cluster plasmas. <i>Physics of Plasmas</i> , 2004, 11, 270-277.	1.9	122
31	High-Field High-Repetition-Rate Sources for the Coherent THz Control of Matter. <i>Scientific Reports</i> , 2016, 6, 22256.	3.3	121
32	Comparison of Laser Ion Acceleration from the Front and Rear Surfaces of Thin Foils. <i>Physical Review Letters</i> , 2005, 94, 045004.	7.8	119
33	Detailed study of nuclear fusion from femtosecond laser-driven explosions of deuterium clusters. <i>Physics of Plasmas</i> , 2002, 9, 3108-3120.	1.9	110
34	Proton spectra from ultraintense laser-plasma interaction with thin foils: Experiments, theory, and simulation. <i>Physics of Plasmas</i> , 2003, 10, 3283-3289.	1.9	110
35	Targets for high repetition rate laser facilities: needs, challenges and perspectives. <i>High Power Laser Science and Engineering</i> , 2017, 5, .	4.6	106
36	Correlated $e^+ e^-$ peaks observed in heavy-ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 245, 153-160.	4.1	99

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37	Hot Electrons Transverse Refluxing in Ultraintense Laser-Solid Interactions. <i>Physical Review Letters</i> , 2010, 105, 015005.	7.8	97
38	Hard x-ray production from high intensity laser solid interactions (invited). <i>Review of Scientific Instruments</i> , 1999, 70, 265-269.	1.3	96
39	High resolution laser-driven proton radiography. <i>Journal of Applied Physics</i> , 2002, 92, 1775-1779.	2.5	96
40	Model of neutron-production rates from femtosecond-laser-cluster interactions. <i>Physical Review A</i> , 2001, 63, .	2.5	91
41	Evidence of Ultrashort Electron Bunches in Laser-Plasma Interactions at Relativistic Intensities. <i>Physical Review Letters</i> , 2003, 91, 105001.	7.8	91
42	Electron Temperature Scaling in Laser Interaction with Solids. <i>Physical Review Letters</i> , 2011, 107, 205003.	7.8	91
43	Dose-controlled irradiation of cancer cells with laser-accelerated proton pulses. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 437-444.	2.2	91
44	4.5- and 8-keV emission and absorption x-ray imaging using spherically bent quartz 203 and 211 crystals (invited). <i>Review of Scientific Instruments</i> , 2003, 74, 2130-2135.	1.3	90
45	Computer Simulation of the Three-Dimensional Regime of Proton Acceleration in the Interaction of Laser Radiation with a Thin Spherical Target. <i>Plasma Physics Reports</i> , 2001, 27, 363-371.	0.9	86
46	Detecting vacuum birefringence with x-ray free electron lasers and high-power optical lasers: a feasibility study. <i>Physica Scripta</i> , 2016, 91, 023010.	2.5	82
47	Absolute charge calibration of scintillating screens for relativistic electron detection. <i>Review of Scientific Instruments</i> , 2010, 81, 033301.	1.3	78
48	A compact solution for ion beam therapy with laser accelerated protons. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 41-52.	2.2	78
49	Nuclear fusion in gases of deuterium clusters heated with a femtosecond laser. <i>Physics of Plasmas</i> , 2000, 7, 1993-1998.	1.9	77
50	High Resolution Energy-Angle Correlation Measurement of Hard X Rays from Laser-Thomson Backscattering. <i>Physical Review Letters</i> , 2013, 111, 114803.	7.8	68
51	First results with the novel petawatt laser acceleration facility in Dresden. <i>Journal of Physics: Conference Series</i> , 2017, 874, 012028.	0.4	68
52	Study of saturation of CR39 nuclear track detectors at high ion fluence and of associated artifact patterns. <i>Review of Scientific Instruments</i> , 2007, 78, 013304.	1.3	67
53	Efficient laser-driven proton acceleration from cylindrical and planar cryogenic hydrogen jets. <i>Scientific Reports</i> , 2017, 7, 10248.	3.3	67
54	Relativistic Electron Streaming Instabilities Modulate Proton Beams Accelerated in Laser-Plasma Interactions. <i>Physical Review Letters</i> , 2017, 118, 194801.	7.8	67

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55	Spectral properties of laser-accelerated mid-Z MeV u ion beams. <i>Physics of Plasmas</i> , 2005, 12, 056314.	1.9	66
56	Laser accelerated ions and electron transport in ultra-intense laser matter interaction. <i>Laser and Particle Beams</i> , 2005, 23, .	1.0	65
57	Comparative spectra and efficiencies of ions laser-accelerated forward from the front and rear surfaces of thin solid foils. <i>Physics of Plasmas</i> , 2007, 14, 053105.	1.9	62
58	Laser produced electromagnetic pulses: generation, detection and mitigation. <i>High Power Laser Science and Engineering</i> , 2020, 8, .	4.6	62
59	Tumour irradiation in mice with a laser-accelerated proton beam. <i>Nature Physics</i> , 2022, 18, 316-322.	16.7	62
60	Increased efficiency of short-pulse laser-generated proton beams from novel flat-top cone targets. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	61
61	High proton energies from cone targets: electron acceleration mechanisms. <i>New Journal of Physics</i> , 2012, 14, 023038.	2.9	60
62	Laser-driven ion acceleration with hollow laser beams. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	60
63	Radiative signatures of the relativistic Kelvin-Helmholtz instability. , 2013, , .		57
64	Production of large volume, strongly magnetized laser-produced plasmas by use of pulsed external magnetic fields. <i>Review of Scientific Instruments</i> , 2013, 84, 043505.	1.3	57
65	Precision measurement of the $3s_{1/2}$ - $3p_{3/2}$ transition energy in Na-like platinum ions. <i>Physical Review Letters</i> , 1991, 66, 1150-1153.	7.8	56
66	Effects of nonionizing prepulses in high-intensity laser-solid interactions. <i>Physical Review E</i> , 2001, 64, 025401.	2.1	56
67	Direct observation of prompt pre-thermal laser ion sheath acceleration. <i>Nature Communications</i> , 2012, 3, 874.	12.8	56
68	Laser-driven ion acceleration via target normal sheath acceleration in the relativistic transparency regime. <i>New Journal of Physics</i> , 2018, 20, 013019.	2.9	56
69	Radiation properties and implosion dynamics of planar and cylindrical wire arrays, asymmetric and symmetric, uniform and combined X-pinch on the UNR 1-MA zebra generator. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 194-212.	1.3	52
70	Intense electron and proton beams from PetaWatt laser-matter interactions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 455, 130-139.	1.6	50
71	Enhanced Isochoric Heating from Fast Electrons Produced by High-Contrast, Relativistic-Intensity Laser Pulses. <i>Physical Review Letters</i> , 2010, 104, 085001.	7.8	49
72	Diagnosing hot electron production by short pulse, high intensity lasers using photonuclear reactions. <i>Review of Scientific Instruments</i> , 1999, 70, 1213-1216.	1.3	47

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73	Traveling-wave Thomson scattering and optical undulators for high-yield EUV and X-ray sources. Applied Physics B: Lasers and Optics, 2010, 100, 61-76.	2.2	46
74	Laser accelerated protons captured and transported by a pulse power solenoid. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	46
75	ZnO Luminescence and scintillation studied via photoexcitation, X-ray excitation and gamma-induced positron spectroscopy. Scientific Reports, 2016, 6, 31238.	3.3	45
76	Proton probing measurement of electric and magnetic fields generated by ns and ps laser-matter interactions. Laser and Particle Beams, 2008, 26, 241-248.	1.0	44
77	Enhanced laser ion acceleration from mass-limited foils. Physics of Plasmas, 2010, 17, .	1.9	44
78	The generation of high-quality, intense ion beams by ultra-intense lasers. Plasma Physics and Controlled Fusion, 2002, 44, B99-B108.	2.1	43
79	Planar Wire Array as Powerful Radiation Source. IEEE Transactions on Plasma Science, 2006, 34, 2295-2302.	1.3	42
80	Towards highest peak intensities for ultra-short MeV-range ion bunches. Scientific Reports, 2015, 5, 12459.	3.3	42
81	Ultra high-speed x-ray imaging of laser-driven shock compression using synchrotron light. Journal Physics D: Applied Physics, 2018, 51, 055601.	2.8	42
82	Proton beam quality enhancement by spectral phase control of a PW-class laser system. Scientific Reports, 2021, 11, 7338.	3.3	40
83	Dynamics of Mass Transport and Magnetic Fields in Low-Wire-Number-Array ZPinches. Physical Review Letters, 2006, 97, 125001.	7.8	39
84	Circumventing the Dephasing and Depletion Limits of Laser-Wakefield Acceleration. Physical Review X, 2019, 9, .	8.9	38
85	Petawatt laser system and experiments. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 676-688.	2.9	37
86	Nuclear diagnostics for petawatt experiments (invited). Review of Scientific Instruments, 2001, 72, 767-772.	1.3	37
87	Shaping laser accelerated ions for future applications – The LIGHT collaboration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 94-98.	1.6	37
88	Ultraintense Laser-Produced Fast-Electron Propagation in Gas Jets. Physical Review Letters, 2005, 94, 055004.	7.8	35
89	Gamma-induced Positron Spectroscopy (GiPS) at a superconducting electron linear accelerator. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2623-2629.	1.4	35
90	Robust energy enhancement of ultrashort pulse laser accelerated protons from reduced mass targets. Plasma Physics and Controlled Fusion, 2014, 56, 084004.	2.1	35

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91	A light-weight compact proton gantry design with a novel dose delivery system for broad-energetic laser-accelerated beams. <i>Physics in Medicine and Biology</i> , 2017, 62, 5531-5555.	3.0	35
92	Making spectral shape measurements in inverse Compton scattering a tool for advanced diagnostic applications. <i>Scientific Reports</i> , 2018, 8, 1398.	3.3	34
93	The High Energy Density Scientific Instrument at the European XFEL. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1393-1416.	2.4	33
94	The generation of micro-fiducials in laser-accelerated proton flows, their imaging property of surface structures and application for the characterization of the flow. <i>Physics of Plasmas</i> , 2004, 11, L17-L20.	1.9	31
95	Emittance growth mechanisms for laser-accelerated proton beams. <i>Physical Review E</i> , 2007, 75, 056401.	2.1	31
96	Focusing and transport of high-intensity multi-MeV proton bunches from a compact laser-driven source. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	31
97	Spectral and spatial shaping of laser-driven proton beams using a pulsed high-field magnet beamline. <i>Scientific Reports</i> , 2020, 10, 9118.	3.3	31
98	Hard x-ray and hot electron production from intense laser irradiation of wavelength-scale particles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, L313-L320.	1.5	29
99	Isochoric heating in heterogeneous solid targets with ultrashort laser pulses. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	29
100	Experimental observation of transverse modulations in laser-driven proton beams. <i>New Journal of Physics</i> , 2014, 16, 023008.	2.9	29
101	High-intensity laser-plasma interaction studies employing laser-driven proton probes. <i>Laser and Particle Beams</i> , 2005, 23, .	1.0	28
102	Optical free-electron lasers with Traveling-Wave Thomson-Scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 234011.	1.5	28
103	Ti K α radiography of Cu-doped plastic microshell implosions via spherically bent crystal imaging. <i>Applied Physics Letters</i> , 2005, 86, 191501.	3.3	27
104	Using X-ray free-electron lasers for probing of complex interaction dynamics of ultra-intense lasers with solid matter. <i>Physics of Plasmas</i> , 2014, 21, 033110.	1.9	27
105	Laser accelerated ions in ICF research prospects and experiments. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, B841-B850.	2.1	26
106	Investigation of Magnetic Fields in 1-MA Wire Arrays and α -Pinches. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 2247-2255.	1.3	25
107	High-pressure chemistry of hydrocarbons relevant to planetary interiors and inertial confinement fusion. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	24
108	Relativistic many-body calculations of energies, E2, and M1 transition rates of 4s24p states in Ga-like ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 348, 293-298.	2.1	23

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109	Enhanced hot-electron localization and heating in high-contrast ultraintense laser irradiation of microcone targets. <i>Physical Review E</i> , 2009, 79, 036408.	2.1	23
110	On-shot characterization of single plasma mirror temporal contrast improvement. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054007.	2.1	23
111	Evidence for Crystalline Structure in Dynamically-Compressed Polyethylene up to 200 GPa. <i>Scientific Reports</i> , 2019, 9, 4196.	3.3	22
112	Investigation of regimes of wire array implosion on the 1MA Zebra accelerator. <i>Physics of Plasmas</i> , 2006, 13, 012704.	1.9	21
113	Observation of Ultrafast Solid-Density Plasma Dynamics Using Femtosecond X-Ray Pulses from a Free-Electron Laser. <i>Physical Review X</i> , 2018, 8, .	8.9	21
114	Spectroscopic modeling of radiation from Cu and Mo X-pinches produced on the UNR 1MA Zebra generator. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 560-571.	2.3	20
115	Effect of current prepulse on wire array initiation on the 1-MA ZEBRA accelerator. <i>Physics of Plasmas</i> , 2007, 14, 052704.	1.9	20
116	Soft-x-ray spectroscopy of $\hat{I}^{\prime}n=0,n=3$ transitions in highly stripped lead. <i>Physical Review A</i> , 1993, 48, 3056-3061.	2.5	19
117	Characterization of microstructural defects in melt grown ZnO single crystals. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	19
118	Development and first experimental tests of Faraday cup array. <i>Review of Scientific Instruments</i> , 2014, 85, 013302.	1.3	19
119	Maximizing magnetic field generation in high power laser-matter interactions. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	4.6	19
120	Anomalous inhibition of electron transport in laser-matter interaction at subrelativistic intensities. <i>Physics of Plasmas</i> , 2004, 11, L69-L72.	1.9	18
121	Characterization of a picosecond laser generated 4.5keV TiK-alpha source for pulsed radiography. <i>Review of Scientific Instruments</i> , 2005, 76, 076102.	1.3	18
122	Relativistic many-body calculations of the Stark-induced amplitude of the $6P_{1/2} \rightarrow 7P_{1/2}$ transition in thallium. <i>Physical Review A</i> , 2006, 74, .	2.5	18
123	Initiation of aluminum wire array on the 1-MA ZEBRA accelerator and its effect on ablation dynamics and x-ray yield. <i>Physics of Plasmas</i> , 2007, 14, 112701.	1.9	18
124	Preparation of laser-accelerated proton beams for radiobiological applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 653, 172-175.	1.6	18
125	Dynamics of bulk electron heating and ionization in solid density plasmas driven by ultra-short relativistic laser pulses. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	18
126	First demonstration of multi-MeV proton acceleration from a cryogenic hydrogen ribbon target. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 044010.	2.1	18

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127	The Potential of Fast Ignition and Related Experiments with a Petawatt Laser Facility. Journal of Fusion Energy, 1998, 17, 231-236.	1.2	17
128	Stability analysis and numerical simulation of a hard-core diffuse pinch during compression with Atlas facility liner parameters. Nuclear Fusion, 2005, 45, 1148-1155.	3.5	17
129	Relativistic many-body calculations of electric-dipole lifetimes, transition rates and oscillator strengths for $2l \rightarrow 13l \rightarrow 2$ states in Ne-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2741-2763.	1.5	17
130	Radiative properties of asymmetric and symmetric X-pinchs with two and four wires recently produced on the UNR 1MA Zebra generator. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 349-362.	2.3	17
131	Investigation of ablation and implosion dynamics in linear wire arrays. Physics of Plasmas, 2007, 14, 032703.	1.9	17
132	Femtosecond laser-generated high-energy-density states studied by x-ray FELs. Plasma Physics and Controlled Fusion, 2017, 59, 014028.	2.1	17
133	Compact high energy x-ray spectrometer based on forward Compton scattering for high intensity laser plasma experiments. Review of Scientific Instruments, 2018, 89, 085118.	1.3	17
134	Linear and non-linear Thomson-scattering x-ray sources driven by conventionally and laser plasma accelerated electrons. Proceedings of SPIE, 2009, , .	0.8	16
135	All-optical structuring of laser-driven proton beam profiles. Nature Communications, 2018, 9, 5292.	12.8	16
136	Liquid Structure of Shock-Compressed Hydrocarbons at Megabar Pressures. Physical Review Letters, 2018, 121, 245501.	7.8	16
137	High energy beam lifetime analysis. Applied Surface Science, 1999, 149, 103-105.	6.1	15
138	Large-scale calculation of dielectronic recombination parameters for Mg-like Fe. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 2917-2937.	1.5	15
139	Transverse phase space mapping of relativistic electron beams using optical transition radiation. Physical Review Special Topics: Accelerators and Beams, 1999, 2, .	1.8	14
140	Spatial sampling of crystal electrons by in-flight annihilation of fast positrons. Nature, 1999, 402, 157-160.	27.8	14
141	Super-intense quasi-neutral proton beams interacting with plasma: a numerical investigation. Nuclear Fusion, 2004, 44, 438-442.	3.5	14
142	Experimental Study of the Dynamics of Large- and Small-Scale Structures in the Plasma Column of Wire Array Z -Pinches. IEEE Transactions on Plasma Science, 2007, 35, 1170-1177.	1.3	14
143	Ion acceleration enhanced by target ablation. Physics of Plasmas, 2015, 22, .	1.9	14
144	Ionization and reflux dependence of magnetic instability generation and probing inside laser-irradiated solid thin foils. Physics of Plasmas, 2017, 24, 103115.	1.9	14

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145	Narrow Correlated Positron-Electron Peaks from Superheavy Collision Systems. , 1987, , 111-194.		14
146	Fast electron transport and heating in solid-density matter. Laser and Particle Beams, 2002, 20, 171-175.	1.0	13
147	Relativistic many-body calculations of excitation energies, line strengths, transition rates, and oscillator strengths in Pd-like ions. Canadian Journal of Physics, 2005, 83, 813-828.	1.1	13
148	Investigation of Electromagnetic-Flute-Mode Instability in a High-Beta Z -Pinch Plasma. IEEE Transactions on Plasma Science, 2006, 34, 2239-2246.	1.3	13
149	Ion heating dynamics in solid buried layer targets irradiated by ultra-short intense laser pulses. Physics of Plasmas, 2013, 20, 093109.	1.9	13
150	Nanoscale femtosecond imaging of transient hot solid density plasmas with elemental and charge state sensitivity using resonant coherent diffraction. Physics of Plasmas, 2016, 23, 033103.	1.9	13
151	Bremsstrahlung emission and plasma characterization driven by moderately relativistic laser-plasma interactions. Plasma Physics and Controlled Fusion, 2021, 63, 035004.	2.1	13
152	X-RAY SPECTROSCOPY OF HIGHLY-IONIZED ATOMS IN AN ELECTRON BEAM ION TRAP (EBIT). Journal De Physique Colloque, 1989, 50, C1-445-C1-458.	0.2	13
153	Development of a pure cryogenic positron plasma using a LINAC positron source. Hyperfine Interactions, 1993, 76, 135-142.	0.5	12
154	Investigation of high intensity laser proton acceleration with underdense targets. Journal of Physics: Conference Series, 2010, 244, 042023.	0.4	12
155	Shallow-underground accelerator sites for nuclear astrophysics: Is the background low enough?. European Physical Journal A, 2012, 48, 1.	2.5	12
156	Nanometer-scale characterization of laser-driven compression, shocks, and phase transitions, by x-ray scattering using free electron lasers. Physics of Plasmas, 2017, 24, .	1.9	12
157	Heisenberg limit for detecting vacuum birefringence. Physical Review D, 2020, 101, .	4.7	12
158	Compact spectroscopy of keV to MeV X-rays from a laser wakefield accelerator. Scientific Reports, 2021, 11, 14368.	3.3	12
159	Efficient laser-driven proton and bremsstrahlung generation from cluster-assembled foam targets. New Journal of Physics, 2021, 23, 093015.	2.9	12
160	Comment on "Measurements of Energetic Proton Transport through Magnetized Plasma from Intense Laser Interactions with Solids" Physical Review Letters, 2006, 96, 249201; author reply 249202.	7.8	11
161	Prototyping and tests for an MRPC-based time-of-flight detector for 1GeV neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 79-87.	1.6	11
162	First Experiments with MePS. Journal of Physics: Conference Series, 2013, 443, 012088.	0.4	11

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163	Doppler Broadening of In-Flight Positron Annihilation Radiation due to Electron Momentum. <i>Physical Review Letters</i> , 2001, 86, 5612-5615.	7.8	10
164	Understanding the role of fast electrons in the heating of dense matter: experimental techniques and recent results. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 81, 183-190.	2.3	10
165	Ultra-low emittance, high current proton beams produced with a laser-virtual cathode sheath accelerator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 544, 277-284.	1.6	10
166	Excitation energies, hyperfine constants, E1 transition rates and lifetimes of $4s2nl$ states in neutral gallium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 749-764.	1.5	10
167	Hot electron generation from intense laser irradiation of microtipped cone and wedge targets. <i>Physics of Plasmas</i> , 2008, 15, 052701.	1.9	10
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