

# 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  
g-index

324  
all docs

324  
docs citations

324  
times ranked

4992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized laser ion acceleration at the relativistic critical density surface. Plasma Physics and Controlled Fusion, 2022, 64, 044010.	2.1	3
2	Dynamics of hot refluxing electrons in ultra-short relativistic laser foil interactions. Physics of Plasmas, 2022, 29, .	1.9	7
3	Tumour irradiation in mice with a laser-accelerated proton beam. Nature Physics, 2022, 18, 316-322.	16.7	62
4	Calorimeter with Bayesian unfolding of spectra of high-flux broadband x rays. Review of Scientific Instruments, 2022, 93, 043102.	1.3	2
5	Towards perfectly linearly polarized x-rays. Physical Review Research, 2022, 4, .	3.6	5
6	Off-harmonic optical probing of high intensity laser plasma expansion dynamics in solid density hydrogen jets. Scientific Reports, 2022, 12, 7287.	3.3	6
7	Laser-proton Acceleration Developments At DRACO-PW Enabling "in-vivo" Radiobiology. , 2022, , .		0
8	Nanoscale subsurface dynamics of solids upon high-intensity femtosecond laser irradiation observed by grazing-incidence x-ray scattering. Physical Review Research, 2022, 4, .	3.6	5
9	Bremsstrahlung emission and plasma characterization driven by moderately relativistic laser-plasma interactions. Plasma Physics and Controlled Fusion, 2021, 63, 035004.	2.1	13
10	Proton beam quality enhancement by spectral phase control of a PW-class laser system. Scientific Reports, 2021, 11, 7338.	3.3	40
11	Measuring the structure and equation of state of polyethylene terephthalate at megabar pressures. Scientific Reports, 2021, 11, 12883.	3.3	10
12	Compact spectroscopy of keV to MeV X-rays from a laser wakefield accelerator. Scientific Reports, 2021, 11, 14368.	3.3	12
13	The High Energy Density Scientific Instrument at the European XFEL. Journal of Synchrotron Radiation, 2021, 28, 1393-1416.	2.4	33
14	Efficient laser-driven proton and bremsstrahlung generation from cluster-assembled foam targets. New Journal of Physics, 2021, 23, 093015.	2.9	12
15	Probing ultrafast laser plasma processes inside solids with resonant small-angle x-ray scattering. Physical Review Research, 2021, 3, .	3.6	4
16	Opportunities for measurements of astrophysically-relevant alpha-capture reaction rates at CRYRING@ESR. X-Ray Spectrometry, 2020, 49, 129-132.	1.4	2
17	Spectral and spatial shaping of laser-driven proton beams using a pulsed high-field magnet beamline. Scientific Reports, 2020, 10, 9118.	3.3	31
18	Laser produced electromagnetic pulses: generation, detection and mitigation. High Power Laser Science and Engineering, 2020, 8, .	4.6	62

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19	Laboratory Study of Bilateral Supernova Remnants and Continuous MHD Shocks. <i>Astrophysical Journal</i> , 2020, 896, 167.	4.5	7
20	Heisenberg limit for detecting vacuum birefringence. <i>Physical Review D</i> , 2020, 101, .	4.7	12
21	Femtosecond laser produced periodic plasma in a colloidal crystal probed by XFEL radiation. <i>Scientific Reports</i> , 2020, 10, 10780.	3.3	3
22	Mirror to measure small angle x-ray scattering signal in high energy density experiments. <i>Review of Scientific Instruments</i> , 2020, 91, 123501.	1.3	7
23	Spectral control via multi-species effects in PW-class laser-ion acceleration. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 124003.	2.1	8
24	Maximizing magnetic field generation in high power laser–solid interactions. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	4.6	19
25	Circumventing the Dephasing and Depletion Limits of Laser-Wakefield Acceleration. <i>Physical Review X</i> , 2019, 9, .	8.9	38
26	Evidence for Crystalline Structure in Dynamically-Compressed Polyethylene up to 200 GPa. <i>Scientific Reports</i> , 2019, 9, 4196.	3.3	22
27	Pulse-resolved Data Acquisition System for THz Pump Laser Probe Experiments at TELBE using Super-radiant Terahertz Sources. , 2019, , .		3
28	On-shot characterization of single plasma mirror temporal contrast improvement. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054007.	2.1	23
29	Laser-ablation-based ion source characterization and manipulation for laser-driven ion acceleration. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054002.	2.1	6
30	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
31	Making spectral shape measurements in inverse Compton scattering a tool for advanced diagnostic applications. <i>Scientific Reports</i> , 2018, 8, 1398.	3.3	34
32	Ultra high-speed x-ray imaging of laser-driven shock compression using synchrotron light. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 055601.	2.8	42
33	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
34	Felsenkeller 5 MV underground accelerator: Towards the Holy Grail of Nuclear Astrophysics <sup>12</sup>C(<i>±, 1</i><sup>3</sup>O. <i>EPJ Web of Conferences</i> , 2018, 178, 01008.	0.3	2
35	All-optical structuring of laser-driven proton beam profiles. <i>Nature Communications</i> , 2018, 9, 5292.	12.8	16
36	Liquid Structure of Shock-Compressed Hydrocarbons at Megabar Pressures. <i>Physical Review Letters</i> , 2018, 121, 245501.	7.8	16

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37	Compact high energy x-ray spectrometer based on forward Compton scattering for high intensity laser plasma experiments. <i>Review of Scientific Instruments</i> , 2018, 89, 085118.	1.3	17
38	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
39	High-pressure chemistry of hydrocarbons relevant to planetary interiors and inertial confinement fusion. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	24
40	Simple scaling equations for electron spectra, currents, and bulk heating in ultra-intense short-pulse laser-solid interaction. <i>Physics of Plasmas</i> , 2018, 25, 073106.	1.9	7
41	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
42	First results with the novel petawatt laser acceleration facility in Dresden. <i>Journal of Physics: Conference Series</i> , 2017, 874, 012028.	0.4	68
43	Nanometer-scale characterization of laser-driven compression, shocks, and phase transitions, by x-ray scattering using free electron lasers. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	12
44	Efficient laser-driven proton acceleration from cylindrical and planar cryogenic hydrogen jets. <i>Scientific Reports</i> , 2017, 7, 10248.	3.3	67
45	Targets for high repetition rate laser facilities: needs, challenges and perspectives. <i>High Power Laser Science and Engineering</i> , 2017, 5, .	4.6	106
46	Relativistic Electron Streaming Instabilities Modulate Proton Beams Accelerated in Laser-Plasma Interactions. <i>Physical Review Letters</i> , 2017, 118, 194801.	7.8	67
47	Femtosecond laser-generated high-energy-density states studied by x-ray FELs. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014028.	2.1	17
48	Ionization and reflux dependence of magnetic instability generation and probing inside laser-irradiated solid thin foils. <i>Physics of Plasmas</i> , 2017, 24, 103115.	1.9	14
49	High power laser-driven particle acceleration for radiotherapy. , 2017, , .		0
50	Progress of the Felsenkeller Shallow-Underground Accelerator for Nuclear Astrophysics. , 2017, , .		2
51	Program and status for the planned underground accelerator in the Dresden Felsenkeller. <i>Journal of Physics: Conference Series</i> , 2016, 665, 012030.	0.4	0
52	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
53	Status of the Development of a Novel Compact Proton Therapy Gantry System Based on Pulsed Magnets for Laser-Driven Beams. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, E612.	0.8	0
54	Deflection of laser accelerated protons from cryogenic hydrogen jets due to self-generated magnetic fields. , 2016, , .		0

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55	High-Field High-Repetition-Rate Sources for the Coherent THz Control of Matter. <i>Scientific Reports</i> , 2016, 6, 22256.	3.3	121
56	ZnO Luminescence and scintillation studied via photoexcitation, X-ray excitation and gamma-induced positron spectroscopy. <i>Scientific Reports</i> , 2016, 6, 31238.	3.3	45
57	Nanoscale femtosecond imaging of transient hot solid density plasmas with elemental and charge state sensitivity using resonant coherent diffraction. <i>Physics of Plasmas</i> , 2016, 23, 033103.	1.9	13
58	Silicon photomultiplier readout of a monolithic 270Å–5Å–5 cm 3 plastic scintillator bar for time of flight applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 816, 16-24.	1.6	6
59	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
60	Controlled electron bunch generation in the few-cycle ultra-intense laser–solid interaction scenario. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 829, 376-377.	1.6	3
61	Reflective optical probing of laser-driven plasmas at the rear surface of solid targets. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 034012.	2.1	7
62	Two surface plasmon decay of plasma oscillations. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	10
63	Positron-Annihilation Lifetime Spectroscopy using Electron Bremsstrahlung. <i>Journal of Physics: Conference Series</i> , 2015, 618, 012042.	0.4	6
64	Felsenkeller shallow-underground accelerator laboratory for nuclear astrophysics. <i>EPJ Web of Conferences</i> , 2015, 93, 03010.	0.3	1
65	Filamentation control and collimation of laser accelerated MeV protons. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 125013.	2.1	4
66	Towards highest peak intensities for ultra-short MeV-range ion bunches. <i>Scientific Reports</i> , 2015, 5, 12459.	3.3	42
67	Laser-driven ion acceleration with hollow laser beams. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	60
68	Ion acceleration enhanced by target ablation. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	14
69	Robust energy enhancement of ultrashort pulse laser accelerated protons from reduced mass targets. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 084004.	2.1	35
70	Bright X-ray pulse generation by laser Thomson-backscattering and traveling wave optical undulators. , 2014, , .		1
71	Development and first experimental tests of Faraday cup array. <i>Review of Scientific Instruments</i> , 2014, 85, 013302.	1.3	19
72	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

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73	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
74	Experimental observation of transverse modulations in laser-driven proton beams. New Journal of Physics, 2014, 16, 023008.	2.9	29
75	Using X-ray free-electron lasers for probing of complex interaction dynamics of ultra-intense lasers with solid matter. Physics of Plasmas, 2014, 21, 033110.	1.9	27
76	Laboratory formation of a scaled protostellar jet by coaligned poloidal magnetic field. Science, 2014, 346, 325-328.	12.6	173
77	Development of a Novel Compact Particle Therapy Facility With Laser Driven Ion Beams via Gantry Systems Based on Pulsed Magnets. International Journal of Radiation Oncology Biology Physics, 2014, 90, S914-S915.	0.8	0
78	Efficiency determination of resistive plate chambers for fast quasi-monoenergetic neutrons. European Physical Journal A, 2014, 50, 1.	2.5	2
79	A compact solution for ion beam therapy with laser accelerated protons. Applied Physics B: Lasers and Optics, 2014, 117, 41-52.	2.2	78
80	Tomographic Positron Annihilation Lifetime Spectroscopy. Journal of Physics: Conference Series, 2014, 505, 012034.	0.4	2
81	High Resolution Energy-Angle Correlation Measurement of Hard X Rays from Laser-Thomson Backscattering. Physical Review Letters, 2013, 111, 114803.	7.8	68
82	Ion heating dynamics in solid buried layer targets irradiated by ultra-short intense laser pulses. Physics of Plasmas, 2013, 20, 093109.	1.9	13
83	Focusing and transport of high-intensity multi-MeV proton bunches from a compact laser-driven source. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	31
84	Radiation field characterization and shielding studies for the ELI Beamlines facility. Applied Surface Science, 2013, 272, 138-144.	6.1	8
85	Operation of a picosecond narrow-bandwidth Laser–Thomson-backscattering X-ray source. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 214-217.	1.4	9
86	Radiative signatures of the relativistic Kelvin-Helmholtz instability. , 2013, , .		57
87	Simulation and prototyping of 2m long resistive plate chambers for detection of fast neutrons and multi-neutron event identification. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 701, 86-92.	1.6	7
88	Dose-controlled irradiation of cancer cells with laser-accelerated proton pulses. Applied Physics B: Lasers and Optics, 2013, 110, 437-444.	2.2	91
89	Production of large volume, strongly magnetized laser-produced plasmas by use of pulsed external magnetic fields. Review of Scientific Instruments, 2013, 84, 043505.	1.3	57
90	The ELI-ALPS secondary sources: a gateway to scientific excellence. , 2013, , .		0

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91	Kluge et al. Reply. Physical Review Letters, 2013, 111, 219502.	7.8	2
92	First Experiments with MePS. Journal of Physics: Conference Series, 2013, 443, 012088.	0.4	11
93	Position-resolved Positron Annihilation Lifetime Spectroscopy. Journal of Physics: Conference Series, 2013, 443, 012091.	0.4	0
94	High proton energies from cone targets: electron acceleration mechanisms. New Journal of Physics, 2012, 14, 023038.	2.9	60
95	Direct observation of prompt pre-thermal laser ion sheath acceleration. Nature Communications, 2012, 3, 874.	12.8	56
96	Annihilation Lifetime Spectroscopy Using Positrons from Bremsstrahlung Production. Defect and Diffusion Forum, 2012, 331, 41-52.	0.4	4
97	A possible underground accelerator in the Dresden Felsenkeller. Journal of Physics: Conference Series, 2012, 337, 012032.	0.4	1
98	Prototyping a 2m Å– 0.5m MRPC-based neutron TOF-wall with steel converter plates. Journal of Instrumentation, 2012, 7, P11030-P11030.	1.2	3
99	Shallow-underground accelerator sites for nuclear astrophysics: Is the background low enough?. European Physical Journal A, 2012, 48, 1.	2.5	12
100	Characterisation of permanent magnetic quadrupoles for focussing proton beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 676, 126-134.	1.6	4
101	High-pressure research using dynamic compression at the European XFEL. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s99-s99.	0.3	1
102	Hollow Beam creation with continuous diffractive phase mask at PHELIX. , 2012, , .		1
103	563 speaker LASER DRIVEN ACCELERATORS FOR RADIOBIOLOGY EXPERIMENT. Radiotherapy and Oncology, 2011, 99, S230.	0.6	0
104	Electron Temperature Scaling in Laser Interaction with Solids. Physical Review Letters, 2011, 107, 205003.	7.8	91
105	Increased laser-accelerated proton energies via direct laser-light-pressure acceleration of electrons in microcone targets. Physics of Plasmas, 2011, 18, .	1.9	149
106	Use of superconducting linacs for positron generation: the EPOS system at the Forschungszentrum Dresden-Rossendorf (FZD). Journal of Physics: Conference Series, 2011, 262, 012003.	0.4	7
107	A technology platform for translational research on laser driven particle accelerators for radiotherapy. , 2011, , .		2
108	Preparation of laser-accelerated proton beams for radiobiological applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 172-175.	1.6	18

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109	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
110	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
111	Laser accelerated protons captured and transported by a pulse power solenoid. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	46
112	Characterization of microstructural defects in melt grown ZnO single crystals. Journal of Applied Physics, 2011, 109, .	2.5	19
113	Prospects for Laser-Driven Ion Beam Therapy. , 2011, , .		0
114	The nELBE Neutron Time of Flight Facility. Journal of the Korean Physical Society, 2011, 59, 1593-1596.	0.7	0
115	Proton acceleration from ultrahigh-intensity short-pulse laser-matter interactions with Cu micro-cone targets at an intrinsic $\sim 10^8$ contrast. Journal of Physics: Conference Series, 2010, 244, 022034.	0.4	8
116	Transport of hot electron currents in solid targets irradiated by high intensity short laser pulses. Journal of Physics: Conference Series, 2010, 244, 022016.	0.4	1
117	Investigation of high intensity laser proton acceleration with underdense targets. Journal of Physics: Conference Series, 2010, 244, 042023.	0.4	12
118	Theoretical Understanding of Enhanced Proton Energies from Laser-Cone Interactions. AIP Conference Proceedings, 2010, , .	0.4	2
119	Ultrashort Pulse Laser Accelerated Proton Beams for First Radiobiological Applications. , 2010, , .		2
120	Prospects For and Progress Towards Laser-Driven Particle Therapy Accelerators. , 2010, , .		4
121	Low-Divergent, Energetic Electron Beams from Ultra-Thin Foils. , 2010, , .		2
122	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
123	Optimization of flat-cone targets for enhanced laser-acceleration of protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 14-17.	1.6	6
124	Evaluation of a microchannel-plate PMT as a potential timing detector suitable for positron lifetime measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 641-645.	1.6	6
125	Positron annihilation spectroscopy using high-energy photons. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 334-337.	1.8	10
126	Structural characterization of H plasma-doped ZnO single crystals by positron annihilation spectroscopies. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2415-2425.	1.8	10



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127	Structural characterization of H plasma-doped ZnO single crystals by Hall measurements and photoluminescence studies. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2426-2431.	1.8	2
128	Advanced Laser Particle Accelerator Development at LANL: From Fast Ignition to Radiation Oncology. , 2010, , .		2
129	Structural Characterisation of Er Implanted, Ge-Rich SiO <sub>2</sub> Layers Using Slow Positron Implantation Spectroscopy. <i>Materials Science Forum</i> , 2010, 666, 41-45.	0.3	0
130	Dose-dependent biological damage of tumour cells by laser-accelerated proton beams. <i>New Journal of Physics</i> , 2010, 12, 085003.	2.9	154
131	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
132	Enhanced laser ion acceleration from mass-limited foils. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	44
133	Absolute charge calibration of scintillating screens for relativistic electron detection. <i>Review of Scientific Instruments</i> , 2010, 81, 033301.	1.3	78
134	Improving proton acceleration with circularly polarized intense laser pulse by radial confinement with heavy ions. <i>Physics of Plasmas</i> , 2010, 17, 013106.	1.9	6
135	Enhanced laser-driven proton-acceleration from limited mass targets by high temporal contrast ultra-intense lasers. , 2010, , .		1
136	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
137	Efficient laser-ion acceleration from closely stacked ultrathin foils. <i>Physical Review E</i> , 2010, 82, 016405.	2.1	5
138	The scaling of proton energies in ultrashort pulse laser plasma acceleration. <i>New Journal of Physics</i> , 2010, 12, 045015.	2.9	180
139	Hot Electrons Transverse Refluxing in Ultraintense Laser-Solid Interactions. <i>Physical Review Letters</i> , 2010, 105, 015005.	7.8	97
140	Recent advances in Proton acceleration and beam shaping. , 2010, , .		0
141	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
142	PW performance ion acceleration from the LANL 200TW Trident laser facility. , 2009, , .		0
143	Proton, electron and K-alpha emission from micro-scale copper cone targets. , 2009, , .		0
144	Linear and non-linear Thomson-scattering x-ray sources driven by conventionally and laser plasma accelerated electrons. <i>Proceedings of SPIE</i> , 2009, , .	0.8	16

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145	Status of the Leopard Laser Project in Nevada Terawatt Facility. Journal of Fusion Energy, 2009, 28, 218-220.	1.2	3
146	Progress of the EPOS project: Gamma-Induced Positron Spectroscopy (GiPS). Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2451-2455.	0.8	8
147	Recent results at LULI on fast electron transport with and without guiding cone in the context of fast ignitor. European Physical Journal: Special Topics, 2009, 175, 77-82.	2.6	0
148	Importance of magnetic resistive fields in the heating of a micro-cone target irradiated by a high intensity laser. European Physical Journal: Special Topics, 2009, 175, 89-95.	2.6	2
149	Creating solid density warm matter by laser heating in external magnetic field. , 2009, , .		0
150	Laser-accelerated ion beams for future medical applications. IFMBE Proceedings, 2009, , 106-107.	0.3	0
151	Hot electron generation from intense laser irradiation of microtipped cone and wedge targets. Physics of Plasmas, 2008, 15, 052701.	1.9	10
152	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
153	Increased efficiency of short-pulse laser-generated proton beams from novel flat-top cone targets. Physics of Plasmas, 2008, 15, .	1.9	61
154	Recent experiment on fast electron transport in ultra-high intensity laser interaction. Journal of Physics: Conference Series, 2008, 112, 022048.	0.4	2
155	Enhanced energy localization and heating in high contrast ultra-intense laser produced plasmas via novel conical micro-target design. Journal of Physics: Conference Series, 2008, 112, 022050.	0.4	2
156	Laser wakefield simulations towards development of compact particle accelerators. Journal of Physics: Conference Series, 2007, 78, 012021.	0.4	5
157	Investigation of ablation and implosion dynamics in linear wire arrays. Physics of Plasmas, 2007, 14, 032703.	1.9	17
158	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
159	Comparative spectra and efficiencies of ions laser-accelerated forward from the front and rear surfaces of thin solid foils. Physics of Plasmas, 2007, 14, 053105.	1.9	62
160	Isochoric heating in heterogeneous solid targets with ultrashort laser pulses. Physics of Plasmas, 2007, 14, .	1.9	29
161	Effect of current prepulse on wire array initiation on the 1-MA ZEBRA accelerator. Physics of Plasmas, 2007, 14, 052704.	1.9	20
162	Emittance growth mechanisms for laser-accelerated proton beams. Physical Review E, 2007, 75, 056401.	2.1	31

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163	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
164	Runaway electron production during intense electron beam penetration in dense plasma. <i>Physics of Plasmas</i> , 2007, 14, 013102.	1.9	5
165	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
166	Dynamics of laser-plasma expansion across strong magnetic field. , 2007, , .		0
167	Laboratory simulation of magnetospheric plasma shocks. <i>Advances in Space Research</i> , 2007, 39, 358-369.	2.6	8
168	Excitation of Electromagnetic Flute Modes in the Process of Interaction of Plasma Flow with Inhomogeneous Magnetic Field. <i>Astrophysics and Space Science</i> , 2007, 307, 99-101.	1.4	3
169	Planar Wire Array as Powerful Radiation Source. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 2295-2302.	1.3	42
170	Radiation properties and implosion dynamics of planar and cylindrical wire arrays, asymmetric and symmetric, uniform and combined X-pinches on the UNR 1-MA zebra generator. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 194-212.	1.3	52
171	Spectroscopic modeling of radiation from planar wire arrays produced on the 1 MA pulsed power generator at UNR. , 2006, , .		1
172	Investigation of Magnetic Fields in 1-MA Wire Arrays and X-Pinches. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 2247-2255.	1.3	25
173	Radiative Properties, Structure, and Dynamics of Asymmetric and Symmetric, Uniform and Combined X-Pinches on 1MA Zebra Generator. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1
174	Hybrid simulation of z-pinches in support of wire array implosion experiments at the Nevada Terawatt Facility. <i>Journal of Plasma Physics</i> , 2006, 72, 1113.	2.1	1
175	Implosion dynamics and Spectroscopy of X-pinches and Wire arrays with doped Al wires on the UNR 1MA Z-pinch generator. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	5
176	Radiation Yield and Dynamics of Planar Wire-Array Plasma. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	5
177	Laser accelerated heavy particles – Tailoring of ion beams on a nano-scale. <i>Optics Communications</i> , 2006, 264, 519-524.	2.1	9
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