

# Julien Fuchs

## List of Publications by Year in descending order

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231  
papers

8,721  
citations

43973

48  
h-index

51492

86  
g-index

231  
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231  
docs citations

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times ranked

2978  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory modelling of equatorial "tongue" accretion channels in young stellar objects caused by the Rayleigh-Taylor instability. <i>Astronomy and Astrophysics</i> , 2022, 657, A112.	2.1	8
2	Numerical investigation of spallation neutrons generated from petawatt-scale laser-driven proton beams. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	1.5	9
3	Detailed characterization of a laboratory magnetized supercritical collisionless shock and of the associated proton energization. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	1.5	11
4	Characterization of the stability and dynamics of a laser-produced plasma expanding across a strong magnetic field. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	1.5	3
5	Enhancement of the Nonresonant Streaming Instability by Particle Collisions. <i>Physical Review Letters</i> , 2022, 128, 115101.	2.9	1
6	Absolute calibration of Fujifilm BAS-TR image plate response to laser driven protons up to 40 MeV. <i>Review of Scientific Instruments</i> , 2022, 93, .	0.6	3
7	Enhanced X-ray emission arising from laser-plasma confinement by a strong transverse magnetic field. <i>Scientific Reports</i> , 2021, 11, 8180.	1.6	14
8	Inferring possible magnetic field strength of accreting inflows in EXor-type objects from scaled laboratory experiments. <i>Astronomy and Astrophysics</i> , 2021, 648, A81.	2.1	10
9	Forward scattering and filamentation of a spatially smoothed laser pulse in the hydrodynamic and kinetic frameworks. <i>Physics of Plasmas</i> , 2021, 28, 052701.	0.7	5
10	Laboratory evidence for proton energization by collisionless shock surfing. <i>Nature Physics</i> , 2021, 17, 1177-1182.	6.5	10
11	Experimental Study of the Interaction of a Laser Plasma Flow with a Transverse Magnetic Field. <i>Radiophysics and Quantum Electronics</i> , 2021, 63, 876-886.	0.1	8
12	Laboratory disruption of scaled astrophysical outflows by a misaligned magnetic field. <i>Nature Communications</i> , 2021, 12, 762.	5.8	14
13	Characterization and performance of the Apollon short-focal-area facility following its commissioning at 1 PW level. <i>Matter and Radiation at Extremes</i> , 2021, 6, .	1.5	21
14	Design and commissioning of a neutron counter adapted to high-intensity laser matter interactions. <i>Review of Scientific Instruments</i> , 2021, 92, 113303.	0.6	0
15	Pulsed magnetic field generation system for laser-plasma research. <i>Review of Scientific Instruments</i> , 2021, 92, 123506.	0.6	6
16	Laboratory evidence for an asymmetric accretion structure upon slanted matter impact in young stars. <i>Astronomy and Astrophysics</i> , 2020, 642, A38.	2.1	7
17	Focussing Protons from a Kilojoule Laser for Intense Beam Heating using Proximal Target Structures. <i>Scientific Reports</i> , 2020, 10, 9415.	1.6	17
18	Growth of concomitant laser-driven collisionless and resistive electron filamentation instabilities over large spatiotemporal scales. <i>Nature Physics</i> , 2020, 16, 983-988.	6.5	20

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19	Modelling energy deposition in TR image plate detectors for various ion types. <i>Journal of Instrumentation</i> , 2020, 15, P04002-P04002.	0.5	9
20	On the growth of the thermally modified non-resonant streaming instability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 2302-2315.	1.6	6
21	Analyzing x-ray emission of target impurities to determine the parameters of recombining laser plasma. <i>Journal of Physics: Conference Series</i> , 2020, 1556, 012006.	0.3	0
22	Extreme brightness laser-based neutron pulses as a pathway for investigating nucleosynthesis in the laboratory. <i>Matter and Radiation at Extremes</i> , 2019, 4, .	1.5	23
23	The response function of Fujifilm BAS-TR imaging plates to laser-accelerated titanium ions. <i>Review of Scientific Instruments</i> , 2019, 90, 083302.	0.6	10
24	Highly-collimated, high-charge and broadband MeV electron beams produced by magnetizing solids irradiated by high-intensity lasers. <i>Matter and Radiation at Extremes</i> , 2019, 4, .	1.5	11
25	Laser experiment for the study of accretion dynamics of Young Stellar Objects: Design and scaling. <i>High Energy Density Physics</i> , 2019, 33, 100711.	0.4	4
26	X-ray spectroscopy evidence for plasma shell formation in experiments modeling accretion columns in young stars. <i>Matter and Radiation at Extremes</i> , 2019, 4, .	1.5	10
27	Laboratory investigation of particle acceleration and magnetic field compression in collisionless colliding fast plasma flows. <i>Communications Physics</i> , 2019, 2, .	2.0	14
28	Joule-Level High-Efficiency Energy Transfer to Subpicosecond Laser Pulses by a Plasma-Based Amplifier. <i>Physical Review X</i> , 2019, 9, .	2.8	25
29	Alignment of solid targets under extreme tight focus conditions generated by an ellipsoidal plasma mirror. <i>Matter and Radiation at Extremes</i> , 2019, 4, 024402.	1.5	6
30	Laser-Produced Magnetic-Rayleigh-Taylor Unstable Plasma Slabs in a 20 T Magnetic Field. <i>Physical Review Letters</i> , 2019, 123, 205001.	2.9	31
31	Dynamics of the Electromagnetic Fields Induced by Fast Electron Propagation in Near-Solid-Density Media. <i>Physical Review Letters</i> , 2019, 122, 025001.	2.9	12
32	First demonstration of multi-MeV proton acceleration from a cryogenic hydrogen ribbon target. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 044010.	0.9	18
33	Self-generated surface magnetic fields inhibit laser-driven sheath acceleration of high-energy protons. <i>Nature Communications</i> , 2018, 9, 280.	5.8	54
34	Self-modulation and anomalous collective scattering of laser produced intense ion beam in plasmas. <i>Matter and Radiation at Extremes</i> , 2018, 3, 127-134.	1.5	10
35	Experimental evidence for the enhanced and reduced stopping regimes for protons propagating through hot plasmas. <i>Scientific Reports</i> , 2018, 8, 14586.	1.6	13
36	Comparison of Dimensionless Parameters in Astrophysical MHD Systems and in Laboratory Experiments. <i>Astronomy Reports</i> , 2018, 62, 483-491.	0.2	5

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37	SEPAGE: a proton-ion-electron spectrometer for LMJ-PETAL. , 2018, , .		4
38	Detailed characterization of laser-produced astrophysically-relevant jets formed via a poloidal magnetic nozzle. High Energy Density Physics, 2017, 23, 48-59.	0.4	25
39	Formation of a plasma with the determining role of radiative processes in thin foils irradiated by a pulse of the PEARL subpetawatt laser. JETP Letters, 2017, 105, 13-17.	0.4	11
40	High flux, beamed neutron sources employing deuteron-rich ion beams from D <sub>2</sub> O-ice layered targets. Plasma Physics and Controlled Fusion, 2017, 59, 064004.	0.9	26
41	Experimental evidence for short-pulse laser heating of solid-density target to high bulk temperatures. Scientific Reports, 2017, 7, 12144.	1.6	24
42	Collimated protons accelerated from an overdense gas jet irradiated by a 1 $\mu$ m wavelength high-intensity short-pulse laser. Scientific Reports, 2017, 7, 13505.	1.6	37
43	Targets for high repetition rate laser facilities: needs, challenges and perspectives. High Power Laser Science and Engineering, 2017, 5, .	2.0	106
44	Acceleration of collimated 45 MeV protons by collisionless shocks driven in low-density, large-scale gradient plasmas by a 1020 W/cm <sup>2</sup> , 1 $\mu$ m laser. Scientific Reports, 2017, 7, 16463.	1.6	23
45	Laboratory unraveling of matter accretion in young stars. Science Advances, 2017, 3, e1700982.	4.7	35
46	Enhancement of Quasistationary Shocks and Heating via Temporal Staging in a Magnetized Laser-Plasma Jet. Physical Review Letters, 2017, 119, 255002.	2.9	18
47	Propagation of intense short-pulse laser in homogeneous near-critical density plasmas. Journal of Physics: Conference Series, 2016, 717, 012019.	0.3	1
48	Buffered high charge spectrally-peaked proton beams in the relativistic-transparency regime. New Journal of Physics, 2016, 18, 013038.	1.2	30
49	High-power laser-plasma interaction in nanosecond regimes "at a glance" using proton deflectometry. Journal of Physics: Conference Series, 2016, 717, 012036.	0.3	0
50	Density and temperature characterization of long-scale length, near-critical density controlled plasma produced from ultra-low density plastic foam. Scientific Reports, 2016, 6, 21495.	1.6	31
51	Optimization of interaction conditions for efficient short laser pulse amplification by stimulated Brillouin scattering in the strongly coupled regime. Physics of Plasmas, 2016, 23, .	0.7	22
52	Diagnostics of laser-produced plasmas based on the analysis of intensity ratios of He-like ions X-ray emission. Physics of Plasmas, 2016, 23, .	0.7	9
53	Absolute dosimetric characterization of Gafchromic EBT3 and HDv2 films using commercial flat-bed scanners and evaluation of the scanner response function variability. Review of Scientific Instruments, 2016, 87, 073301.	0.6	34
54	Experimental stand for studying the impact of laser-accelerated protons on biological objects. Quantum Electronics, 2016, 46, 283-287.	0.3	6

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55	Parameters of supersonic astrophysically-relevant plasma jets collimating via poloidal magnetic field measured by x-ray spectroscopy method. <i>Journal of Physics: Conference Series</i> , 2016, 774, 012114.	0.3	4
56	Signatures of the Self-Similar Regime of Strongly Coupled Stimulated Brillouin Scattering for Efficient Short Laser Pulse Amplification. <i>Physical Review Letters</i> , 2016, 116, 075001.	2.9	60
57	Temporal Narrowing of Neutrons Produced by High-Intensity Short-Pulse Lasers. <i>Physical Review Letters</i> , 2015, 115, 054802.	2.9	30
58	Dynamics and structure of self-generated magnetic fields on solids following high contrast, high intensity laser irradiation. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	18
59	Time of Flight Measurements for Neutrons Produced in Reactions Driven by Laser-Target Interactions at Petawatt level. <i>Physics Procedia</i> , 2015, 77, 29-33.	1.2	0
60	Collimation of Fast Electrons in Critical Density Plasma Channel. <i>Plasma and Fusion Research</i> , 2015, 10, 1304005-1304005.	0.3	0
61	Plasma-based creation of short light pulses: analysis and simulation of amplification and focusing. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 014002.	0.9	23
62	Corrigendum to "Instrumentation for diagnostics and control of laser-accelerated proton (ion) beams" [ <i>Phys Med</i> 30 (2014) 255-270]. <i>Physica Medica</i> , 2015, 31, 117.	0.4	3
63	A novel platform to study magnetized high-velocity collisionless shocks. <i>High Energy Density Physics</i> , 2015, 17, 190-197.	0.4	14
64	Selective deuterium ion acceleration using the Vulcan petawatt laser. <i>Physics of Plasmas</i> , 2015, 22, 053102.	0.7	19
65	The creation of large-volume, gradient-free warm dense matter with an x-ray free-electron laser. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	45
66	A compact broadband ion beam focusing device based on laser-driven megagauss thermoelectric magnetic fields. <i>Review of Scientific Instruments</i> , 2015, 86, 043502.	0.6	5
67	Longitudinal laser ion acceleration in low density targets: experimental optimization on the Titan laser facility and numerical investigation of the ultra-high intensity limit. , 2015, , .		2
68	Calibration of time of flight detectors using laser-driven neutron source. <i>Review of Scientific Instruments</i> , 2015, 86, 073308.	0.6	23
69	TNSA-like plasmas collision in an ambient magnetic field as a route to astrophysical collisionless shock observation in a laboratory. <i>High Energy Density Physics</i> , 2015, 17, 183-189.	0.4	2
70	Collimated fast electron beam generation in critical density plasma. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	11
71	Monochromatic short pulse laser produced ion beam using a compact passive magnetic device. <i>Review of Scientific Instruments</i> , 2014, 85, 043504.	0.6	12
72	Characterisation of deuterium spectra from laser driven multi-species sources by employing differentially filtered image plate detectors in Thomson spectrometers. <i>Review of Scientific Instruments</i> , 2014, 85, 093303.	0.6	34

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73	Topology of Megagauss Magnetic Fields and of Heat-Carrying Electrons Produced in a High-Power Laser-Solid Interaction. <i>Physical Review Letters</i> , 2014, 113, 235001.	2.9	36
74	Passive tailoring of laser-accelerated ion beam cut-off energy by using double foil assembly. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	8
75	Proton stopping power measurements using high intensity short pulse lasers produced proton beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 740, 105-106.	0.7	11
76	Investigation of longitudinal proton acceleration in exploded targets irradiated by intense short-pulse laser. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	18
77	Laboratory formation of a scaled protostellar jet by coaligned poloidal magnetic field. <i>Science</i> , 2014, 346, 325-328.	6.0	173
78	On the relationship between quadrupolar magnetic field and collisionless reconnection. <i>Physics of Plasmas</i> , 2014, 21, 062111.	0.7	7
79	Amplification of ultra-short light pulses by ion collective modes in plasmas. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1153-1156.	1.2	18
80	Instrumentation for diagnostics and control of laser-accelerated proton (ion) beams. <i>Physica Medica</i> , 2014, 30, 255-270.	0.4	76
81	Summary of the Working Group 2: Ion beams from plasmas. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 740, 81-82.	0.7	0
82	Plasma devices for focusing extreme light pulses. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1169-1173.	1.2	15
83	Amplification of Ultrashort Laser Pulses by Brillouin Backscattering in Plasmas. <i>Physical Review Letters</i> , 2013, 111, 055004.	2.9	81
84	Generation of Laser-Driven Higher Harmonics from Grating Targets. <i>Physical Review Letters</i> , 2013, 110, 065003.	2.9	45
85	Evidence of Resonant Surface-Wave Excitation in the Relativistic Regime through Measurements of Proton Acceleration from Grating Targets. <i>Physical Review Letters</i> , 2013, 111, 185001.	2.9	100
86	Spectral characteristics of ultra-short laser pulses in plasma amplifiers. <i>Physics of Plasmas</i> , 2013, 20, 083115.	0.7	41
87	Investigation of laser ion acceleration in low-density targets using exploded foils. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124025.	0.9	19
88	Astrophysics of Magnetically Collimated Jets Generated from Laser-Produced Plasmas. <i>Physical Review Letters</i> , 2013, 110, 025002.	2.9	61
89	The PETAL+ project: X-ray and charged particle diagnostics for plasma experiments at LMJ-PETAL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 720, 141-143.	0.7	12
90	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.	0.6	57

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91	Stopping power modeling in warm and hot dense matter. High Energy Density Physics, 2013, 9, 488-495.	0.4	11
92	Charge Equilibrium of a Laser-Generated Carbon-Ion Beam in Warm Dense Matter. Physical Review Letters, 2013, 110, 135003.	2.9	17
93	Modeling target bulk heating resulting from ultra-intense short pulse laser irradiation of solid density targets. Physics of Plasmas, 2013, 20, .	0.7	13
94	Investigation of laser-driven proton acceleration using ultra-short, ultra-intense laser pulses. Physics of Plasmas, 2013, 20, .	0.7	32
95	Simultaneous measurement of self-generated magnetic fields and electron heat transport in dense plasma. Laser and Particle Beams, 2013, 31, 653-661.	0.4	3
96	Kinetic simulations of intense light pulses generated by Brillouin backscattering in laser-plasma interaction. Proceedings of SPIE, 2013, , .	0.8	3
97	Longitudinal proton probing of ultrafast and high-contrast laser-solid interactions. EPJ Web of Conferences, 2013, 59, 17014.	0.1	4
98	Experimental Study on the Focusability of Ultra-intense Laser Light with a Plasma Mirror. The Review of Laser Engineering, 2013, 41, 723.	0.0	0
99	Focusing Dynamics of High-Energy Density, Laser-Driven Ion Beams. Physical Review Letters, 2012, 108, 055001.	2.9	24
100	Dynamics of Self-Generated, Large Amplitude Magnetic Fields Following High-Intensity Laser Matter Interaction. Physical Review Letters, 2012, 109, 205002.	2.9	70
101	Weibel-Induced Filamentation during an Ultrafast Laser-Driven Plasma Expansion. Physical Review Letters, 2012, 108, 135001.	2.9	51
102	Measuring hot electron distributions in intense laser interaction with dense matter. New Journal of Physics, 2012, 14, 063023.	1.2	8
103	Plasma-wall interaction in laser inertial fusion reactors: novel proposals for radiation tests of first wall materials. Plasma Physics and Controlled Fusion, 2012, 54, 124051.	0.9	6
104	Anomalous self-generated electrostatic fields in nanosecond laser-plasma interaction. Physics of Plasmas, 2011, 18, 030705.	0.7	7
105	Dynamic Control over Mega-Ampere Electron Currents in Metals Using Ionization-Driven Resistive Magnetic Fields. Physical Review Letters, 2011, 107, 135005.	2.9	53
106	Properties of a plasma-based laser-triggered micro-lens. AIP Advances, 2011, 1, 022142.	0.6	12
107	Tests of proton laser-acceleration using circular laser polarization, foams and half gas-bag targets. Plasma Physics and Controlled Fusion, 2011, 53, 014002.	0.9	6
108	On the investigation of fast electron beam filamentation in laser-irradiated solid targets using multi-MeV proton emission. Plasma Physics and Controlled Fusion, 2011, 53, 124012.	0.9	12

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109	Transport of hot electron currents in solid targets irradiated by high intensity short laser pulses. Journal of Physics: Conference Series, 2010, 244, 022016.	0.3	1
110	Geometrical optimization of an ellipsoidal plasma mirror toward tight focusing of ultra-intense laser pulse. Journal of Physics: Conference Series, 2010, 244, 032008.	0.3	9
111	Isochoric heating of solids by laser-accelerated protons: Experimental characterization and self-consistent hydrodynamic modeling. High Energy Density Physics, 2010, 6, 21-28.	0.4	56
112	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.	0.7	6
113	High-power laser delocalization in plasmas leading to long-range beam merging. Nature Physics, 2010, 6, 1010-1016.	6.5	5
114	Production of high-intensity proton fluxes by a 21% Nd:glass laser beam. Laser and Particle Beams, 2010, 28, 575-583.	0.4	9
115	Laser-driven generation of ultraintense proton beams. Radiation Effects and Defects in Solids, 2010, 165, 760-766.	0.4	4
116	Optimizing laser-accelerated ion beams for a collimated neutron source. Physics of Plasmas, 2010, 17, 113105.	0.7	18
117	Enhanced Propagation for Relativistic Laser Pulses in Inhomogeneous Plasmas Using Hollow Channels. Physical Review Letters, 2010, 105, 225001.	2.9	17
118	Effect of self-generated magnetic fields on fast-electron beam divergence in solid targets. New Journal of Physics, 2010, 12, 063018.	1.2	29
119	Proton acceleration by moderately relativistic laser pulses interacting with solid density targets. New Journal of Physics, 2010, 12, 045017.	1.2	12
120	Picosecond Short-Range Disorder in Isochorically Heated Aluminum at Solid Density. Physical Review Letters, 2010, 104, 035002.	2.9	75
121	Time and space resolved interferometry for laser-generated fast electron measurements. Review of Scientific Instruments, 2010, 81, 113302.	0.6	14
122	Fast focusing of short-pulse lasers by innovative plasma optics toward extreme intensity. Optics Letters, 2010, 35, 2314.	1.7	68
123	Hot Electrons Transverse Refluxing in Ultraintense Laser-Solid Interactions. Physical Review Letters, 2010, 105, 015005.	2.9	97
124	Experimental Evidence of Short Light Pulse Amplification Using Strong-Coupling Stimulated Brillouin Scattering in the Pump Depletion Regime. Physical Review Letters, 2010, 104, 025001.	2.9	91
125	An imaging proton spectrometer for short-pulse laser plasma experiments. Review of Scientific Instruments, 2010, 81, 10D314.	0.6	14
126	Enhanced hot-electron localization and heating in high-contrast ultraintense laser irradiation of microcone targets. Physical Review E, 2009, 79, 036408.	0.8	23



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127	Magnetic field measurements in laser-produced plasmas via proton deflectometry. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	58
128	Experimental investigation of identical wavelength short light pulses crossing in underdense plasma. <i>Proceedings of SPIE</i> , 2009, , .	0.8	6
129	Laser acceleration of high-energy protons in variable density plasmas. <i>New Journal of Physics</i> , 2009, 11, 023038.	1.2	26
130	Propagation of relativistic electrons in low-density foam targets. <i>Astrophysics and Space Science</i> , 2009, 322, 161-165.	0.5	2
131	Application of solid-state nuclear track detectors of the CR-39/PM-355 type for measurements of energetic protons emitted from plasma produced by an ultra-intense laser. <i>Radiation Measurements</i> , 2009, 44, 881-884.	0.7	17
132	Laser acceleration of low emittance, high energy ions and applications. <i>Comptes Rendus Physique</i> , 2009, 10, 176-187.	0.3	37
133	Observation of the transient charging of a laser-irradiated solid. <i>European Physical Journal D</i> , 2009, 55, 293-297.	0.6	8
134	Recent results at LULI on fast electron transport with and without guiding cone in the context of fast ignitor. <i>European Physical Journal: Special Topics</i> , 2009, 175, 77-82.	1.2	0
135	Importance of magnetic resistive fields in the heating of a micro-cone target irradiated by a high intensity laser. <i>European Physical Journal: Special Topics</i> , 2009, 175, 89-95.	1.2	2
136	Laser-driven proton acceleration and applications: Recent results. <i>European Physical Journal: Special Topics</i> , 2009, 175, 105-110.	1.2	9
137	Time and space resolved interferometry for detecting plasma expansion from solid targets. <i>European Physical Journal: Special Topics</i> , 2009, 175, 139-142.	1.2	0
138	X-ray absorption for the study of warm dense matter. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124021.	0.9	26
139	Modified proton radiography arrangement for the detection of ultrafast field fronts. <i>Review of Scientific Instruments</i> , 2009, 80, 113506.	0.6	5
140	Laser-Driven Ultrafast Field Propagation on Solid Surfaces. <i>Physical Review Letters</i> , 2009, 102, 194801.	2.9	87
141	Generation of MeV-Range Protons From 30–100 nm Solid Targets by Ultra-High-Contrast Laser Pulses. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1817-1820.	0.6	3
142	Space- and Time-Resolved Dynamics of Fast Electrons and of the Energy Partition Into Cold Electrons. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1821-1824.	0.6	0
143	Laser-Driven Proton Beams: Acceleration Mechanism, Beam Optimization, and Radiographic Applications. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1833-1842.	0.6	5
144	Laser-driven proton acceleration: source optimization and radiographic applications. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124040.	0.9	63

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145	Absolute calibration of photostimulable image plate detectors used as (0.5–20 MeV) high-energy proton detectors. <i>Review of Scientific Instruments</i> , 2008, 79, 073301.	0.6	91
146	Postacceleration of Laser-Generated High-Energy Protons Through Conventional Accelerator Linacs. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1843-1846.	0.6	5
147	Proton probing measurement of electric and magnetic fields generated by ns and ps laser-matter interactions. <i>Laser and Particle Beams</i> , 2008, 26, 241-248.	0.4	44
148	Study of hot electron propagation in cone-wire targets and foams. , 2008, , .		0
149	Ultraintense proton beams from laser-induced skin-layer ponderomotive acceleration. <i>Journal of Applied Physics</i> , 2008, 104, 063310.	1.1	37
150	Numerical study of a linear accelerator using laser-generated proton beams as a source. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	40
151	Inhibition of fast electron energy deposition due to preplasma filling of cone-attached targets. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	85
152	Hot and Cold Electron Dynamics Following High-Intensity Laser Matter Interaction. <i>Physical Review Letters</i> , 2008, 101, 105004.	2.9	48
153	Fast heating of wire target attached on entrant hollow cone with ultra-intense laser up to keV order. <i>Journal of Physics: Conference Series</i> , 2008, 112, 022058.	0.3	0
154	Ultrahigh-current proton beams from short-pulse laser-solid interactions. <i>Journal of Physics: Conference Series</i> , 2008, 112, 042040.	0.3	0
155	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	8
156	Laser-acceleration of high-energy protons in small-scale gradients. <i>Journal of Physics: Conference Series</i> , 2008, 112, 022082.	0.3	0
157	Enhanced energy localization and heating in high contrast ultra-intense laser produced plasmas via novel conical micro-target design. <i>Journal of Physics: Conference Series</i> , 2008, 112, 022050.	0.3	2
158	Space- and time-resolved dynamics of a solid target rear surface expansion induced by fast electrons and of the energy partition into bulk cold electrons. <i>Journal of Physics: Conference Series</i> , 2008, 112, 022099.	0.3	0
159	Propagation of relativistic electrons in low-density foam targets. , 2008, , 161-165.		0
160	MeV PROTON SOURCES FOR PLASMA DYNAMICS INVESTIGATIONS ON PS TIMESCALES. <i>International Journal of Modern Physics B</i> , 2007, 21, 300-311.	1.0	0
161	LASER-ACCELERATED PROTONS: PERSPECTIVES FOR CONTROL/OPTIMIZATION OF BEAM PROPERTIES. <i>International Journal of Modern Physics B</i> , 2007, 21, 590-599.	1.0	1
162	Laser triggered micro-lens for focusing and energy selection of MeV protons. <i>Laser and Particle Beams</i> , 2007, 25, 71-77.	0.4	25

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163	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.	0.7	62
164	Energetic protons generated by ultrahigh contrast laser pulses interacting with ultrathin targets. <i>Physics of Plasmas</i> , 2007, 14, 030701.	0.7	92
165	Emittance growth mechanisms for laser-accelerated proton beams. <i>Physical Review E</i> , 2007, 75, 056401.	0.8	31
166	Impulsive electric fields driven by high-intensity laser matter interactions. <i>Laser and Particle Beams</i> , 2007, 25, 161-167.	0.4	46
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