Jerome Faure

List of Publications by Year
in descending order

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160 papers	8,922 citations	47006 47 h-index	40979 93 g-index
168 all docs	168 docs citations	168 times ranked	3897 citing authors

#	Article	IF	Citations
1	A laserâ€“plasma accelerator producing monoenergetic electron beams. Nature, 2004, 431, 541-544.	27.8	1,853
2	Controlled injection and acceleration of electrons in plasma wakefields by colliding laser pulses. Nature, 2006, 444, 737-739.	27.8	740
3	Principles and applications of compact laserâ€“plasma accelerators. Nature Physics, 2008, 4, 447-453.	16.7	420
4	Few femtosecond, few kiloampere electron bunch produced by a laserâ€“plasma accelerator. Nature Physics, 2011, 7, 219-222.	16.7	363
5	Observation of Terahertz Emission from a Laser-Plasma Accelerated Electron Bunch Crossing a Plasma-Vacuum Boundary. Physical Review Letters, 2003, 91, 074802.	7.8	327
6	High-ResolutionÎ³-Ray Radiography Produced by a Laser-Plasma Driven Electron Source. Physical Review Letters, 2005, 94, 025003.	7.8	201
7	Electron and photon production from relativistic laserâ€“plasma interactions. Nuclear Fusion, 2003, 43, 629-633.	3.5	184
8	Particle-in-Cell modelling of laserâ€“plasma interaction using Fourier decomposition. Journal of Computational Physics, 2009, 228, 1803-1814.	3.8	169
9	Suppression of the amplified spontaneous emission in chirped-pulse-amplification lasers by clean high-energy seed-pulse injection. Optics Communications, 1998, 148, 70-74.	2.1	159
10	Controlling the Phase-Space Volume of Injected Electrons in a Laser-Plasma Accelerator. Physical Review Letters, 2009, 102, 164801.	7.8	159
11	Electron-Yield Enhancement in a Laser-Wakefield Accelerator Driven by Asymmetric Laser Pulses. Physical Review Letters, 2002, 89, 174802.	7.8	152
12	Relativistic electron beams driven by kHz single-cycle light pulses. Nature Photonics, 2017, 11, 293-296.	31.4	143
13	Absolute calibration for a broad range single shot electron spectrometer. Review of Scientific Instruments, 2006, 77, 103301.	1.3	124
14	Observation of Laser-Pulse Shortening in Nonlinear Plasma Waves. Physical Review Letters, 2005, 95, 205003.	7.8	123
15	Measurements of the Inverse Faraday Effect from Relativistic Laser Interactions with an Underdense Plasma. Physical Review Letters, 2001, 87, 215004.	7.8	113
16	Injection and acceleration of quasimonoenergetic relativistic electron beams using density gradients at the edges of a plasma channel. Physics of Plasmas, 2010, 17, .	1.9	112
17	Vacuum laser acceleration of relativistic electrons using plasma mirror injectors. Nature Physics, 2016, 12, 355-360.	16.7	112
18	Characterization of electron beams produced by ultrashort (30 fs) laser pulses. Physics of Plasmas, 2001, 8, 2605-2608.	1.9	107

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19	Terahertz radiation from laser accelerated electron bunches. Physics of Plasmas, 2004, 11, 2899-2906.	1.9	106
20	Wave-front correction of femtosecond terawatt lasers by deformable mirrors. Optics Letters, 1998, 23, 1043.	3.3	104
21	Observation of a Hot High-Current Electron Beam from a Self-Modulated Laser Wakefield Accelerator. Physical Review Letters, 2001, 86, 1227-1230.	7.8	95
22	Modelling Laser-Based Table-Top THz Sources: Optical Rectification, Propagation and Electro-Optic Sampling. Optical and Quantum Electronics, 2004, 36, 681-697.	3.3	94
23	2020 roadmap on plasma accelerators. New Journal of Physics, 2021, 23, 031101.	2.9	89
24	Proposed scheme for compact GeV laser plasma accelerator. Laser and Particle Beams, 2006, 24, 255-259.	1.0	80
25	Full characterization and optimization of a femtosecond ultraviolet laser source for time and angle-resolved photoemission on solid surfaces. Review of Scientific Instruments, 2012, 83, 043109.	1.3	80
26	Temporal contrast in Ti:sapphire lasers, characterization and control. IEEE Journal of Selected Topics in Quantum Electronics, 1998, 4, 449-458.	2.9	75
27	Study of Ultraintense Laser-Produced Fast-Electron Propagation and Filamentation in Insulator and Metal Foil Targets by Optical Emission Diagnostics. Physical Review Letters, 2006, 96, 125002.	7.8	75
28	Observation of Beam Loading in a Laser-Plasma Accelerator. Physical Review Letters, 2009, 103, 194804.	7.8	74
29	Cold Optical Injection Producing Monoenergetic, Multi-GeV Electron Bunches. Physical Review Letters, 2009, 102, 065001.	7.8	71
30	Coherent Phonon Coupling to Individual Bloch States in Photoexcited Bismuth. Physical Review Letters, 2012, 108, 256808.	7.8	70
31	A review of recent progress on laser-plasma acceleration at kHz repetition rate. Plasma Physics and Controlled Fusion, 2019, 61, 014012.	2.1	70
32	Fast-electron transport and induced heating in aluminum foils. Physics of Plasmas, 2007, 14, .	1.9	68
33	Radiotherapy with laser-plasma accelerators: Monte Carlo simulation of dose deposited by an experimental quasimonoenergetic electron beam. Medical Physics, 2005, 33, 155-162.	3.0	65
34	Relativistic-intensity near-single-cycle light waveforms at kHz repetition rate. Light: Science and Applications, 2020, 9, 47.	16.6	62
35	Monoenergetic electron beam optimization in the bubble regime. Physics of Plasmas, 2005, 12, 056702.	1.9	61
36	Treatment planning for laser-accelerated very-high energy electrons. Physics in Medicine and Biology, 2009, 54, 3315-3328.	3.0	60

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37	High repetition-rate wakefield electron source generated by few-millijoule, 30 fs laser pulses on a density downramp. New Journal of Physics, 2013, 15, 053016.	2.9	60
38	Effects of pulse duration on self-focusing of ultra-short lasers in underdense plasmas. Physics of Plasmas, 2002, 9, 756-759.	1.9	57
39	Significant Reduction of Electronic Correlations upon Isovalent Ru Substitution of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mi><mml:mn> Physical Review Letters, 2010, 105, 087001.	7.8	57
40	Electron diffraction using ultrafast electron bunches from a laser-wakefield accelerator at kHz repetition rate. Applied Physics Letters, 2013, 102, .	3.3	57
41	Compton scattering x-ray sources driven by laser wakefield acceleration. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	55
42	Exploring ultrashort high-energy electron-induced damage in human carcinoma cells. Cell Death and Disease, 2010, 1, e73-e73.	6.3	55
43	Frequency chirp and pulse shape effects in self-modulated laser wakefield accelerators. Physics of Plasmas, 2003, 10, 2039-2046.	1.9	54
44	Laser-driven accelerators by colliding pulses injection: A review of simulation and experimental results. Physics of Plasmas, 2009, 16, 056703.	1.9	53
45	Compact and high-quality gamma-ray source applied to 10 Î¼m-range resolution radiography. Applied Physics Letters, 2011, 98, .	3.3	53
46	Ultra-short electron beams based spatio-temporal radiation biology and radiotherapy. Mutation Research - Reviews in Mutation Research, 2010, 704, 142-151.	5.5	51
47	Direct observation of electron thermalization and electron-phonon coupling in photoexcited bismuth. Physical Review B, 2013, 88, .	3.2	48
48	Controlled Betatron X-Ray Radiation from Tunable Optically Injected Electrons. Physical Review Letters, 2011, 107, 255003.	7.8	47
49	Generation of quasi-monoenergetic electron beams using ultrashort and ultraintense laser pulses. Laser and Particle Beams, 2005, 23, 161-166.	1.0	45
50	Direct observation of betatron oscillations in a laser-plasma electron accelerator. Europhysics Letters, 2008, 81, 64001.	2.0	43
51	Recent experiments on the hydrodynamics of laser-produced plasmas conducted at the PALS laboratory. Laser and Particle Beams, 2007, 25, 127-141.	1.0	42
52	High-charge relativistic electron bunches from a kHz laser-plasma accelerator. Physical Review Accelerators and Beams, 2018, 21, .	1.6	41
53	Observation of Fine Structures in Laser-Driven Electron Beams Using Coherent Transition Radiation. Physical Review Letters, 2007, 98, 194801.	7.8	39
54	GeV Wakefield acceleration of low energy electron bunches using Petawatt lasers. Physics of Plasmas, 2005, 12, 093104.	1.9	38

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55	Mapping the X-Ray Emission Region in a Laser-Plasma Accelerator. Physical Review Letters, 2011, 107, 215004.	7.8	37
56	Dynamics of Raman instabilities using chirped laser pulses. Physical Review E, 2001, 63, 065401.	2.1	36
57	Simulation of quasimonoenergetic electron beams produced by colliding pulse wakefield acceleration. Physics of Plasmas, 2008, 15, .	1.9	36
58	Thermalization of photoexcited carriers in bismuth investigated by time-resolved terahertz spectroscopy andab initiocalculations. Physical Review B, 2012, 85, .	3.2	34
59	Comparison of measured with calculated dose distribution from a 120â€MeV electron beam from a laserâ€plasma accelerator. Medical Physics, 2012, 39, 3501-3508.	3.0	34
60	Experimental Measurements of Electron-Bunch Trains in a Laser-Plasma Accelerator. Physical Review Letters, 2013, 110, 065005.	7.8	34
61	Staged concept of laser-plasma acceleration toward multi-GeV electron beams. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	33
62	Demonstration of stable long-term operation of a kilohertz laser-plasma accelerator. Physical Review Accelerators and Beams, 2020, 23, .	1.6	32
63	Ensuring compactness, reliability, and scalability for the next generation of high-field lasers. IEEE Journal of Selected Topics in Quantum Electronics, 1998, 4, 376-384.	2.9	31
64	Giant Anisotropy of Spin-Orbit Splitting at the Bismuth Surface. Physical Review Letters, 2012, 109, 226404.	7.8	31
65	Enhanced Spatiotemporal Laser-Beam Smoothing in Gas-Jet Plasmas. Physical Review Letters, 2003, 90, 075002.	7.8	30
66	Electron acceleration in sub-relativistic wakefields driven by few-cycle laser pulses. New Journal of Physics, 2014, 16, 023023.	2.9	30
67	Spatial-domain interferometer for measuring plasma mirror expansion. Optics Letters, 2015, 40, 3009.	3.3	28
68	Anticorrelated Emission of High Harmonics and Fast Electron Beams From Plasma Mirrors. Physical Review Letters, 2016, 116, 185001.	7.8	28
69	Concept of a laser-plasma-based electron source for sub-10-fs electron diffraction. Physical Review Accelerators and Beams, 2016, 19, .	1.6	28
70	Capturing Structural Dynamics in Crystalline Silicon Using Chirped Electrons from a Laser Wakefield Accelerator. Scientific Reports, 2016, 6, 36224.	3.3	27
71	Interaction of an ultra-intense laser pulse with a nonuniform preformed plasma. Physics of Plasmas, 2000, 7, 3009-3016.	1.9	26
72	Laser-plasma accelerators: a new tool for science and for society. Plasma Physics and Controlled Fusion, 2005, 47, B481-B490.	2.1	26

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73	Relativistic Acceleration of Electrons Injected by a Plasma Mirror into a Radially Polarized Laser Beam. Physical Review Letters, 2017, 119, 094801.	7.8	26
74	Plasma wake inhibition at the collision of two laser pulses in an underdense plasma. Physics of Plasmas, 2007, 14, 060702.	1.9	25
75	Characterization of the beam loading effects in a laser plasma accelerator. New Journal of Physics, 2010, 12, 045023.	2.9	23
76	Tuning of laser pulse shapes in grating-based compressors for optimal electron acceleration in plasmas. Optics Letters, 2003, 28, 1823.	3.3	21
77	Effect of the Laser Wave Front in a Laser-Plasma Accelerator. Physical Review X, 2015, 5, .	8.9	21
78	On the physics of electron ejection from laser-irradiated overdense plasmas. Physics of Plasmas, 2016, 23, .	1.9	21
79	A spatially dispersive regenerative amplifier for ultrabroadband pulses. Optics Communications, 1999, 159, 68-73.	2.1	20
80	Ultrashort laser pulses and ultrashort electron bunches generated in relativistic laser-plasma interaction. Physics of Plasmas, 2006, 13, 056706.	1.9	20
81	High flux of relativistic electrons produced in femtosecond laser-thin foil target interactions: Characterization with nuclear techniques. Review of Scientific Instruments, 2008, 79, 023504.	1.3	19
82	Laserâ€“plasma accelerator: status and perspectives. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 601-610.	3.4	17
83	Quasi-monoenergetic electron beams produced by colliding cross-polarized laser pulses in underdense plasmas. New Journal of Physics, 2009, 11, 013011.	2.9	17
84	Identifying observable carrier-envelope phase effects in laser wakefield acceleration with near-single-cycle pulses. Physics of Plasmas, 2021, 28, .	1.9	16
85	Optimization of gamma-ray beams produced by a laser-plasma accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 629, 382-386.	1.6	14
86	Ultrafast filling of an electronic pseudogap in an incommensurate crystal. Physical Review B, 2013, 87, .	3.2	14
87	Characterization of plasmas produced by laserâ€“gas jet interaction. Physics of Plasmas, 2001, 8, 3467-3472.	1.9	13
88	Controlled electron injection in a laser-plasma accelerator. Plasma Physics and Controlled Fusion, 2007, 49, B395-B402.	2.1	13
89	Transport of intense laser-produced electron beams in matter. Plasma Physics and Controlled Fusion, 2006, 48, B211-B220.	2.1	12
90	Betatron emission as a diagnostic for injection and acceleration mechanisms in laser plasma accelerators. Plasma Physics and Controlled Fusion, 2012, 54, 124023.	2.1	12

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91	Production of energetic proton beams with lasers. Review of Scientific Instruments, 2006, 77, 03B302.	1.3	11
92	Circular Dichroism and Superdiffusive Transport at the Surface of BiTeI. Physical Review Letters, 2013, 111, 126603.	7.8	11
93	Optimization and stabilization of a kilohertz laser-plasma accelerator. Physics of Plasmas, 2021, 28, .	1.9	11
94	High-Harmonic Generation and Correlated Electron Emission from Relativistic Plasma Mirrors at 1â€‰kHz Repetition Rate. Ultrafast Science, 2022, 2022, .	11.2	11
95	New aspects of electronic excitations at the bismuth surface: Topology, thermalization and coupling to coherent phonons. Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 60-65.	1.7	9
96	Interaction of Ultraintense Radially-Polarized Laser Pulses with Plasma Mirrors. Physical Review X, 2020, 10, .	8.9	9
97	Direct evidence of gas-induced laser beam smoothing in the interaction with thin foils. Physics of Plasmas, 2009, 16, .	1.9	8
98	Few-cycle laser wakefield acceleration on solid targets with controlled plasma scale length. Physics of Plasmas, 2019, 26, .	1.9	8
99	Dosimetric characterisation and application to radiation biology of a kHz laser-driven electron beam. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	8
100	Waveform Control of Relativistic Electron Dynamics in Laser-Plasma Acceleration. Physical Review X, 2022, 12, .	8.9	8
101	Spatiotemporal dynamics of ultrarelativistic beam-plasma instabilities. Physical Review Research, 2022, 4, .	3.6	8
102	Fast electron energy deposition in aluminium foils: Resistive vs. drag heating. European Physical Journal: Special Topics, 2009, 175, 71-76.	2.6	6
103	Limitations in ionization-induced compression of femtosecond laser pulses due to spatio-temporal couplings. Optics Express, 2016, 24, 9693.	3.4	6
104	Symmetric and asymmetric shocked gas jets for laser-plasma experiments. Review of Scientific Instruments, 2021, 92, 083302.	1.3	6
105	Interaction of ultraintense laser pulses with an underdense, preformed plasma channel. IEEE Transactions on Plasma Science, 2000, 28, 1078-1083.	1.3	5
106	Powerful pulsed THz radiation from laser-accelerated relativistic electron bunches. , 2004, , .		5
107	Design of a compact GeV laser plasma accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 561, 310-313.	1.6	4
108	Measurements of magnetic fields generated in underdense plasmas by intense lasers. AIP Conference Proceedings, 2006, , .	0.4	4

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109	Experiments and Simulations of the Colliding Pulse Injection of Electrons in Plasma Wakefields. IEEE Transactions on Plasma Science, 2008, 36, 1751-1759.	1.3	4
110	Ultra-high-intensity laser propagation through underdense plasma. IEEE Transactions on Plasma Science, 2002, 30, 44-45.	1.3	3
111	Physics of colliding laser pulses in underdense plasmas. Comptes Rendus Physique, 2009, 10, 148-158.	0.9	3
112	Propagation of a randomized 600-ps laser beam in a helium gas jet over long scale lengths. Physical Review E, 2001, 64, 026404.	2.1	2
113	Laser WakeField Acceleration of 170 MeV Quasi-Monoenergetic Electron Beams. , 0, , .		2
114	Electron and Proton Beams Produced by Ultrashort Laser Pulses. , 2006, , 81-90.		2
115	Wakefield acceleration of low energy electron bunches in the weakly nonlinear regime. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 561, 314-319.	1.6	2
116	Gas-induced smoothing of laser beams studied by interaction with thin foils. Plasma Physics and Controlled Fusion, 2008, 50, 115007.	2.1	2
117	Smoothing of laser energy deposition by gas jets. European Physical Journal: Special Topics, 2009, 175, 65-70.	2.6	2
118	Editorial: Lasers in Accelerator Science and Secondary Emission Light Source Technology. Frontiers in Physics, 2019, 7, .	2.1	2
119	Multi-MeV laser-produced particle sources: Characterization by activation techniques. European Physical Journal Special Topics, 2006, 133, 1139-1141.	0.2	2
120	Accelerator Optimization Using a Network Control and Acquisition System. AIP Conference Proceedings, 2002, , .	0.4	1
121	The production of high-energy electrons from the interaction of an intense laser pulse with an underdense plasma. Journal of Modern Optics, 2003, 50, 673-681.	1.3	1
122	78 Radiotherapy with an existing electron beam produced by laser-plasma interaction. Radiotherapy and Oncology, 2005, 76, S46.	0.6	1
123	Production and applications of quasi-monoenergetic electron bunches in laser-plasma based accelerators. AIP Conference Proceedings, 2006, , .	0.4	1
124	GeV MONOENERGETIC ELECTRON BEAM WITH LASER PLASMA ACCELERATOR. International Journal of Modern Physics B, 2007, 21, 277-286.	2.0	1
125	Current advances in smoothing of laser intensity profile. Radiation Effects and Defects in Solids, 2008, 163, 307-315.	1.2	1
126	Ultrashort relativistic electron bunches and spatio-temporal radiation biology. Proceedings of SPIE, 2008, , .	0.8	1

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127	Laser non-uniformity smoothing using gas jets. Journal of Physics: Conference Series, 2008, 112, 022045.	0.4	1
128	Principle and applications of electron beams produced with laser plasma accelerators. Journal of Physics: Conference Series, 2008, 112, 042029.	0.4	1
129	Femto-second ultrashort laser wakefield electron bunch-duration measurements: a prism-based dispersion visible-to-IR spectrometer. Proceedings of SPIE, 2009, , .	0.8	1
130	A high-repetition-rate laser-wakefield accelerator for studies of electron acceleration. Proceedings of SPIE, 2013, , .	0.8	1
131	Characterization of ultraintense laser produced fast electronÂpropagation in insulatorsvs.conductors byÂopticalÂemissionÂdiagnostics. European Physical Journal Special Topics, 2006, 133, 499-502.	0.2	1
132	Medical applications with electron beam generated by laser plasma accelerators. , 2008, , .		1
133	Ultrahigh intensity laser: Present and future. , 1998, , .		0
134	<title>Electron source produced in the self-modulated laser wake field regime</title>. , 2001, 4424, 446.		0
135	Shape-Control of Ultrashort Laser Pulses for Optimal Electron Acceleration in Plasmas. AIP Conference Proceedings, 2002, , .	0.4	0
136	Electron Acceleration Mechanisms in the Interaction of Ultrashort Laser Pulses with Underdense Plasmas: Experiments and Simulations. AIP Conference Proceedings, 2002, , .	0.4	0
137	Shaping of pulses in optical grating-based laser systems for optimal control of electrons in laser plasma wake-field accelerator. , 0, , .		0
138	Progress and Applications of Laser Plasmas Accelerators. , 2005, , JTuB1.		0
139	High quality electron beam produced by laser: A new tool for science. European Physical Journal Special Topics, 2006, 135, 67-73.	0.2	0
140	Ultra Intense Laser Produced Fast Electron Propagation and Filamentation in Insulators vs Conductors by Optical Emission Diagnostics. AIP Conference Proceedings, 2006, , .	0.4	0
141	Controlled injection of electrons in a plasma wave. , 2007, , .		0
142	Injection of electrons into plasma waves by colliding laser pulses into an underdense plasma. , 2007, , .		0
143	Fast electron transport and induced heating in aluminium foils. Journal of Physics: Conference Series, 2008, 112, 022088.	0.4	0
144	Publisherâ€™s Note: Controlled Betatron X-Ray Radiation from Tunable Optically Injected Electrons [Phys. Rev. Lett.107, 255003 (2011)]. Physical Review Letters, 2012, 108, .	7.8	0

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145	Control and Mapping of X-Ray Emission in a Laser-Plasma Accelerator. , 2012, , .		0
146	Development of a high repetition rate laser-plasma accelerator for application to ultrafast electron diffraction. , 2014, , .		0
147	Direct measurement of plasma mirror expansion for controlled laser-driven electron and harmonic beams. , 2015, , .		0
148	Shaping Electron Bunches at the Femtosecond Level. Physics Magazine, 2018, 11, .	0.1	0
149	Simultaneous measurements of high-order harmonics, accelerated electrons and protons emitted from relativistic plasma mirrors. , 2021, , .		0
150	Evolution of pulse shapes during compressor scans in a CPA system and control of electron acceleration in plasmas. Springer Series in Chemical Physics, 2003, , 28-30.	0.2	0
151	Asymmetric Pulse Shapes in Grating-Based CPA Compressors and Optimal Electron Acceleration in Plasmas. Springer Series in Optical Sciences, 2004, , 349-354.	0.7	0
152	TH-C-T-6C-10: Simulation of Dosimetric Properties of Very-High Energy Laser-Accelerated Electron Beams. Medical Physics, 2005, 32, 2163-2164.	3.0	0
153	TUâ€Dâ€BRAâ€03: Laserâ€Accelerated Electrons for Radiation Therapy. Medical Physics, 2007, 34, 2562-2562.	3.0	0
154	Diffraction of Electron Pulses Generated in a Laser-Wakefield Accelerator at 0.5 kHz. , 2013, , .		0
155	Coherent phonon dynamics in misfit-layered chalcogenide LaVS3 crystal. , 2018, , .		0
156	Towards single-cycle relativistic optics at high repetition rate. , 2020, , .		0
157	Time-resolved structural dynamics of the out-of-equilibrium charge density wave phase transition in GdTe₃. Structural Dynamics, 2022, 9, 014502.	2.3	0
158	The production of high-energy electrons from the interaction of an intense laser pulse with an underdense plasma. Journal of Modern Optics, 2003, 50, 673-681.	1.3	0
159	Carrier-Envelope Phase Controlled Electron Dynamics in a Laser-Wakefield Accelerator. , 2022, , .		0
160	High average power TiSa amplifier for high energy, high repetition rate laser plasma accelerator. , 2022, , .		0