

Zheng-Ming Sheng

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305 papers	6,775 citations	45 h-index	67 g-index
340 ext. papers	7,695 ext. citations	3.6 avg, IF	5.68 L-index

#	Paper	IF	Citations
305	Generating high-current monoenergetic proton beams by a circularly polarized laser pulse in the phase-stable acceleration regime. <i>Physical Review Letters</i> , 2008 , 100, 135003	7.4	337
304	Emission of electromagnetic pulses from laser wakefields through linear mode conversion. <i>Physical Review Letters</i> , 2005 , 94, 095003	7.4	212
303	Enhanced collimated GeV monoenergetic ion acceleration from a shaped foil target irradiated by a circularly polarized laser pulse. <i>Physical Review Letters</i> , 2009 , 103, 024801	7.4	151
302	Observation of a fast electron beam emitted along the surface of a target irradiated by intense femtosecond laser pulses. <i>Physical Review Letters</i> , 2006 , 96, 165003	7.4	150
301	Electron acceleration by a short relativistic laser pulse at the front of solid targets. <i>Physical Review Letters</i> , 2000 , 85, 570-3	7.4	122
300	Direct observation of turbulent magnetic fields in hot, dense laser produced plasmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8011-5	11.5	114
299	Near-complete absorption of intense, ultrashort laser light by sub-lambda gratings. <i>Physical Review Letters</i> , 2008 , 101, 145001	7.4	102
298	Self-organizing GeV, nanocoulomb, collimated proton beam from laser foil interaction at 7×10^{21} W/cm ² . <i>Physical Review Letters</i> , 2009 , 103, 135001	7.4	100
297	Fast ignition by laser driven particle beams of very high intensity. <i>Physics of Plasmas</i> , 2007 , 14, 072701	2.1	91
296	Laser shaping of a relativistic intense, short Gaussian pulse by a plasma lens. <i>Physical Review Letters</i> , 2011 , 107, 265002	7.4	90
295	Dense GeV electron-positron pairs generated by lasers in near-critical-density plasmas. <i>Nature Communications</i> , 2016 , 7, 13686	17.4	88
294	Plasmoid ejection and secondary current sheet generation from magnetic reconnection in laser-plasma interaction. <i>Physical Review Letters</i> , 2012 , 108, 215001	7.4	86
293	Powerful terahertz emission from laser wake fields excited in inhomogeneous plasmas. <i>Physics of Plasmas</i> , 2005 , 12, 123103	2.1	84
292	Study of x-ray emission enhancement via a high-contrast femtosecond laser interacting with a solid foil. <i>Physical Review Letters</i> , 2008 , 100, 045004	7.4	83
291	Radiation reaction effects on ion acceleration in laser foil interaction. <i>Plasma Physics and Controlled Fusion</i> , 2011 , 53, 014004	2	78
290	Laser mode effects on the ion acceleration during circularly polarized laser pulse interaction with foil targets. <i>Physics of Plasmas</i> , 2008 , 15, 113103	2.1	77
289	Three-dimensional particle-in-cell simulations of energetic electron generation and transport with relativistic laser pulses in overdense plasmas. <i>Physical Review E</i> , 2002 , 65, 046408	2.4	76

288	Phase-sensitive terahertz emission from gas targets irradiated by few-cycle laser pulses. <i>New Journal of Physics</i> , 2008 , 10, 043001	2.9	75
287	Demonstration of Coherent Terahertz Transition Radiation from Relativistic Laser-Solid Interactions. <i>Physical Review Letters</i> , 2016 , 116, 205003	7.4	73
286	Dense quasi-monoenergetic attosecond electron bunches from laser interaction with wire and slice targets. <i>Physics of Plasmas</i> , 2006 , 13, 110702	2.1	69
285	Demonstration of self-truncated ionization injection for GeV electron beams. <i>Scientific Reports</i> , 2015 , 5, 14659	4.9	68
284	Terahertz radiation from the vacuum-plasma interface driven by ultrashort intense laser pulses. <i>Physical Review E</i> , 2004 , 69, 025401	2.4	68
283	Efficient acceleration of electrons with counterpropagating intense laser pulses in vacuum and underdense plasma. <i>Physical Review E</i> , 2004 , 69, 016407	2.4	67
282	Quasimonoenergetic proton bunch generation by dual-peaked electrostatic-field acceleration in foils irradiated by an intense linearly polarized laser. <i>Physical Review Letters</i> , 2010 , 105, 065003	7.4	64
281	Inverse Faraday effect and propagation of circularly polarized intense laser beams in plasmas. <i>Physical Review E</i> , 1996 , 54, 1833-1842	2.4	64
280	Bright betatron X-ray radiation from a laser-driven-clustering gas target. <i>Scientific Reports</i> , 2013 , 3, 19124.9		62
279	Powerful terahertz emission from laser wakefields in inhomogeneous magnetized plasmas. <i>Physical Review E</i> , 2007 , 75, 016407	2.4	62
278	Manipulation of polarizations for broadband terahertz waves emitted from laser plasma filaments. <i>Nature Photonics</i> , 2018 , 12, 554-559	33.9	60
277	Generating energetic electrons through staged acceleration in the two-plasmon-decay instability in inertial confinement fusion. <i>Physical Review Letters</i> , 2012 , 108, 175002	7.4	60
276	Bright betatronlike x rays from radiation pressure acceleration of a mass-limited foil target. <i>Physical Review Letters</i> , 2013 , 110, 045001	7.4	60
275	Dense attosecond electron sheets from laser wakefields using an up-ramp density transition. <i>Physical Review Letters</i> , 2013 , 110, 135002	7.4	56
274	Single-cycle powerful megawatt to gigawatt terahertz pulse radiated from a wavelength-scale plasma oscillator. <i>Physical Review E</i> , 2008 , 77, 046405	2.4	56
273	Intense high-contrast femtosecond K-shell x-ray source from laser-driven Ar clusters. <i>Physical Review Letters</i> , 2010 , 104, 215004	7.4	55
272	Collisionless electrostatic shock generation and ion acceleration by ultraintense laser pulses in overdense plasmas. <i>Physics of Plasmas</i> , 2007 , 14, 053102	2.1	55
271	On electron acceleration by intense laser pulses in the presence of a stochastic field. <i>Physics of Plasmas</i> , 1999 , 6, 641-644	2.1	55

270	Effects of laser polarization on jet emission of fast electrons in femtosecond-laser plasmas. <i>Physical Review Letters</i> , 2001 , 87, 225001	7.4	54
269	Strong terahertz radiation from relativistic laser interaction with solid density plasmas. <i>Applied Physics Letters</i> , 2012 , 100, 254101	3.4	52
268	Multichromatic narrow-energy-spread electron bunches from laser-wakefield acceleration with dual-color lasers. <i>Physical Review Letters</i> , 2015 , 114, 084801	7.4	50
267	Multimillijoule coherent terahertz bursts from picosecond laser-irradiated metal foils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3994-3999	11.5	50
266	Observation of Terahertz Radiation via the Two-Color Laser Scheme with Uncommon Frequency Ratios. <i>Physical Review Letters</i> , 2017 , 119, 235001	7.4	49
265	Bursts of Terahertz Radiation from Large-Scale Plasmas Irradiated by Relativistic Picosecond Laser Pulses. <i>Physical Review Letters</i> , 2015 , 114, 255001	7.4	49
264	Effects of laser-plasma interactions on terahertz radiation from solid targets irradiated by ultrashort intense laser pulses. <i>Physical Review E</i> , 2011 , 84, 036405	2.4	47
263	Ultra-intense laser pulse propagation in plasmas: from classic hole-boring to incomplete hole-boring with relativistic transparency. <i>New Journal of Physics</i> , 2012 , 14, 063026	2.9	46
262	Weakly relativistic one-dimensional laser pulse envelope solitons in a warm plasma. <i>Physics of Plasmas</i> , 2002 , 9, 3802-3810	2.1	45
261	Self-truncated ionization injection and consequent monoenergetic electron bunches in laser wakefield acceleration. <i>Physics of Plasmas</i> , 2014 , 21, 030701	2.1	43
260	Single-stage plasma-based correlated energy spread compensation for ultrahigh 6D brightness electron beams. <i>Nature Communications</i> , 2017 , 8, 15705	17.4	43
259	Surface electron acceleration in relativistic laser-solid interactions. <i>Optics Express</i> , 2006 , 14, 3093-8	3.3	41
258	Tunable synchrotron-like radiation from centimeter scale plasma channels. <i>Light: Science and Applications</i> , 2016 , 5, e16015	16.7	41
257	Laser absorption and hot electron temperature scalings in laser-plasma interactions. <i>Plasma Physics and Controlled Fusion</i> , 2013 , 55, 085008	2	38
256	Efficient terahertz emission by mid-infrared laser pulses from gas targets. <i>Optics Letters</i> , 2011 , 36, 2608-10	3.0	38
255	Relativistic wave breaking in warm plasmas. <i>Physics of Plasmas</i> , 1997 , 4, 493-495	2.1	38
254	An optical trap for relativistic plasma. <i>Physics of Plasmas</i> , 2003 , 10, 2093-2099	2.1	38
253	Multistage Coupling of Laser-Wakefield Accelerators with Curved Plasma Channels. <i>Physical Review Letters</i> , 2018 , 120, 154801	7.4	37

- 252 Concurrence of monoenergetic electron beams and bright X-rays from an evolving laser-plasma bubble. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 5825-5830^{11.5} 37
- 251 Generation and propagation of hot electrons in laser-plasmas. *Applied Physics B: Lasers and Optics*, **2005**, 80, 957-971 1.9 37
- 250 Towards gigawatt terahertz emission by few-cycle laser pulses. *Physics of Plasmas*, **2011**, 18, 073108 2.1 36
- 249 Controllable Terahertz Radiation from a Linear-Dipole Array Formed by a Two-Color Laser Filament in Air. *Physical Review Letters*, **2016**, 117, 243901 7.4 36
- 248 Ion acceleration by colliding electrostatic shock waves in laser-solid interaction. *Physics of Plasmas*, **2007**, 14, 113106 2.1 34
- 247 Highly anisotropic metasurface: a polarized beam splitter and hologram. *Scientific Reports*, **2014**, 4, 6491^{4.9} 32
- 246 Extreme case of Faraday effect: magnetic splitting of ultrashort laser pulses in plasmas. *Optica*, **2017**, 4, 1086 8.6 32
- 245 Dense Helical Electron Bunch Generation in Near-Critical Density Plasmas with Ultrarelativistic Laser Intensities. *Scientific Reports*, **2015**, 5, 15499 4.9 31
- 244 Preheating ablation effects on the Rayleigh-Taylor instability in the weakly nonlinear regime. *Physics of Plasmas*, **2010**, 17, 122706 2.1 31
- 243 Ponderomotive acceleration of electrons at the focus of high intensity lasers. *Physical Review E*, **2000**, 61, R2220-R2223 2.4 31
- 242 Electron acceleration via high contrast laser interacting with submicron clusters. *Applied Physics Letters*, **2012**, 100, 014104 3.4 29
- 241 Chirped pulse compression in nonuniform plasma Bragg gratings. *Applied Physics Letters*, **2005**, 87, 201504⁴ 29
- 240 Analytic and numerical study of magnetic fields in the plasma wake of an intense laser pulse. *Physics of Plasmas*, **1998**, 5, 3764-3773 2.1 29
- 239 Towards Attosecond High-Energy Electron Bunches: Controlling Self-Injection in Laser-Wakefield Accelerators Through Plasma-Density Modulation. *Physical Review Letters*, **2017**, 119, 044801 7.4 28
- 238 Acceleration dynamics of ions in shocks and solitary waves driven by intense laser pulses. *Physical Review E*, **2007**, 76, 035402 2.4 28
- 237 Bright attosecond X-ray pulses from nonlinear Compton scattering with laser-illuminated compound targets. *Applied Physics Letters*, **2018**, 112, 174102 3.4 28
- 236 Surface properties and biocompatibility of nanostructured TiO₂ film deposited by RF magnetron sputtering. *Nanoscale Research Letters*, **2015**, 10, 56 5 27
- 235 A compact tunable polarized X-ray source based on laser-plasma helical undulators. *Scientific Reports*, **2016**, 6, 29101 4.9 27

234	Model for fast electrons in ultrashort-pulse laser interaction with solid targets. <i>Physical Review E</i> , 1998 , 58, 2456-2460	2.4	27
233	High-quality monoenergetic proton generation by sequential radiation pressure and bubble acceleration. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009 , 12,		26
232	Relativistic critical density increase and relaxation and high-power pulse propagation. <i>Physics of Plasmas</i> , 2012 , 19, 022705	2.1	26
231	Acceleration and evolution of a hollow electron beam in wakefields driven by a Laguerre-Gaussian laser pulse. <i>Physics of Plasmas</i> , 2016 , 23, 033114	2.1	26
230	Attosecond electron bunches from a nanofiber driven by Laguerre-Gaussian laser pulses. <i>Scientific Reports</i> , 2018 , 8, 7282	4.9	25
229	Generation of tens of GeV quasi-monoenergetic proton beams from a moving double layer formed by ultraintense lasers at intensity 10^{21} – 10^{23} W cm ⁻² . <i>New Journal of Physics</i> , 2010 , 12, 045021	2.9	25
228	Strong terahertz radiation from air plasmas generated by an aperture-limited Gaussian pump laser beam. <i>Applied Physics Letters</i> , 2009 , 94, 101502	3.4	25
227	Collisionless shockwaves formed by counter-streaming laser-produced plasmas. <i>New Journal of Physics</i> , 2011 , 13, 093001	2.9	25
226	Manipulating ultrashort intense laser pulses by plasma Bragg gratings. <i>Physics of Plasmas</i> , 2005 , 12, 113103	1.3	25
225	Extremely brilliant GeV γ -rays from a two-stage laser-plasma accelerator. <i>Science Advances</i> , 2020 , 6, eaaz7240	4.9	24
224	Ultra-bright γ -ray emission and dense positron production from two laser-driven colliding foils. <i>Scientific Reports</i> , 2017 , 7, 17312	4.9	24
223	Formation of jet-like spikes from the ablative Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , 2012 , 19, 100701	2.1	24
222	Aligned copper nanorod arrays for highly efficient generation of intense ultra-broadband THz pulses. <i>Scientific Reports</i> , 2017 , 7, 40058	4.9	23
221	Dense blocks of energetic ions driven by multi-petawatt lasers. <i>Scientific Reports</i> , 2016 , 6, 22150	4.9	23
220	QED cascade saturation in extreme high fields. <i>Scientific Reports</i> , 2018 , 8, 8400	4.9	23
219	Strong Terahertz Radiation from a Liquid-Water Line. <i>Physical Review Applied</i> , 2019 , 12,	4.3	23
218	High power terahertz pulses generated in intense laser-plasma interactions. <i>Chinese Physics B</i> , 2012 , 21, 095203	1.2	23
217	Single-cycle strong terahertz pulse generation from a vacuum-plasma interface driven by intense laser pulses. <i>Physical Review E</i> , 2009 , 79, 046411	2.4	23

216	EuPRAXIA Conceptual Design Report. <i>European Physical Journal: Special Topics</i> , 2020 , 229, 3675-4284	2.3	23
215	Four-dimensional imaging of the initial stage of fast evolving plasmas. <i>Applied Physics Letters</i> , 2010 , 97, 211501	3.4	22
214	Self-induced magnetic focusing of proton beams by Weibel-like instability in the laser foil-plasma interactions. <i>Physics of Plasmas</i> , 2009 , 16, 044501	2.1	22
213	Plasma optical modulators for intense lasers. <i>Nature Communications</i> , 2016 , 7, 11893	17.4	22
212	RELATIVISTIC ELECTRONS PRODUCED BY RECONNECTING ELECTRIC FIELDS IN A LASER-DRIVEN BENCH-TOP SOLAR FLARE. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 30	8	22
211	Collimated ultrabright gamma rays from electron wiggling along a petawatt laser-irradiated wire in the QED regime. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9911-9916	11.5	22
210	Contrasting levels of absorption of intense femtosecond laser pulses by solids. <i>Scientific Reports</i> , 2015 , 5, 17870	4.9	21
209	Three-dimensional fast magnetic reconnection driven by relativistic ultraintense femtosecond lasers. <i>Physical Review E</i> , 2014 , 89, 031101	2.4	21
208	Terahertz radiation by two-color lasers due to the field ionization of gases. <i>Physical Review E</i> , 2013 , 87,	2.4	21
207	Absorption of ultrashort intense lasers in laser-solid interactions. <i>Chinese Physics B</i> , 2015 , 24, 015201	1.2	21
206	High-field half-cycle terahertz radiation from relativistic laser interaction with thin solid targets. <i>Applied Physics Letters</i> , 2013 , 103, 204107	3.4	21
205	Inverse bremsstrahlung absorption with nonlinear effects of high laser intensity and non-Maxwellian distribution. <i>Physical Review E</i> , 2009 , 80, 056406	2.4	21
204	Generation of GeV positron and γ -photon beams with controllable angular momentum by intense lasers. <i>New Journal of Physics</i> , 2018 , 20, 083013	2.9	20
203	Quasi-monoenergetic ion generation by hole-boring radiation pressure acceleration in inhomogeneous plasmas using tailored laser pulses. <i>Physics of Plasmas</i> , 2014 , 21, 012705	2.1	20
202	Magnetic control of the pair creation in spatially localized supercritical fields. <i>Physical Review Letters</i> , 2012 , 109, 253202	7.4	20
201	Ultrafast electron beam imaging of femtosecond laser-induced plasma dynamics. <i>Journal of Applied Physics</i> , 2010 , 107, 083305	2.5	20
200	Role of the spatial inhomogeneity on the laser-induced vacuum decay. <i>Physical Review A</i> , 2018 , 97,	2.6	19
199	Sub GV/cm terahertz radiation from relativistic laser-solid interactions via coherent transition radiation. <i>Physical Review E</i> , 2016 , 93, 063204	2.4	19

198	Laser propagation in dense magnetized plasma. <i>Physical Review E</i> , 2016 , 94, 053207	2.4	19
197	On the angular distribution of fast electrons generated in intense laser interaction with solid targets. <i>Physics of Plasmas</i> , 2006 , 13, 014504	2.1	19
196	Highly efficient terahertz radiation from a thin foil irradiated by a high-contrast laser pulse. <i>Physical Review E</i> , 2016 , 94, 033206	2.4	18
195	Ultrahigh-charge electron beams from laser-irradiated solid surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6980-6985	11.5	18
194	Three dimensional effects on proton acceleration by intense laser solid target interaction. <i>Physics of Plasmas</i> , 2013 , 20, 063107	2.1	18
193	High-quality MeV protons from laser interaction with umbrellalike cavity target. <i>Physics of Plasmas</i> , 2009 , 16, 034502	2.1	18
192	Spectrally peaked electron beams produced via surface guiding and acceleration in femtosecond laser-solid interactions. <i>Physical Review E</i> , 2012 , 85, 025401	2.4	18
191	Suppression of pair creation due to a steady magnetic field. <i>Physical Review A</i> , 2012 , 86,	2.6	18
190	Spatial distribution of high-energy electron emission from water plasmas produced by femtosecond laser pulses. <i>Physical Review Letters</i> , 2003 , 90, 165002	7.4	18
189	Enhancement of electron-positron pair creation due to transient excitation of field-induced bound states. <i>Physical Review A</i> , 2013 , 87,	2.6	17
188	Direct observation of ultrafast surface transport of laser-driven fast electrons in a solid target. <i>Physics of Plasmas</i> , 2013 , 20, 110701	2.1	17
187	Formation of large-scale structures in ablative Kelvin-Helmholtz instability. <i>Physics of Plasmas</i> , 2010 , 17, 122308	2.1	17
186	Evolution of a relativistic electron beam-plasma return current system. <i>Physics of Plasmas</i> , 2009 , 16, 032107	2.1	17
185	Laser-energy transfer and enhancement of plasma waves and electron beams by interfering high-intensity laser pulses. <i>Physical Review Letters</i> , 2003 , 91, 225001	7.4	17
184	Enhanced single-stage laser-driven electron acceleration by self-controlled ionization injection. <i>Optics Express</i> , 2014 , 22, 29578-86	3.3	16
183	Electron bow-wave injection of electrons in laser-driven bubble acceleration. <i>Physical Review E</i> , 2012 , 85, 046403	2.4	16
182	Stimulated Raman scattering excited by incoherent light in plasma. <i>Matter and Radiation at Extremes</i> , 2017 , 2, 190-196	4.7	15
181	Effective suppression of parametric instabilities with decoupled broadband lasers in plasma. <i>Physics of Plasmas</i> , 2017 , 24, 112102	2.1	15

180	Role of resonance absorption in terahertz radiation generation from solid targets. <i>Optics Express</i> , 2014 , 22, 11797-803	3.3	15
179	Controllable far-infrared electromagnetic radiation from plasmas applied by dc or ac bias electric fields. <i>Journal of Applied Physics</i> , 2010 , 107, 023113	2.5	15
178	Terahertz generation from laser-driven ultrafast current propagation along a wire target. <i>Physical Review E</i> , 2017 , 95, 013201	2.4	14
177	Preferential enhancement of laser-driven carbon ion acceleration from optimized nanostructured surfaces. <i>Scientific Reports</i> , 2015 , 5, 11930	4.9	14
176	Dynamics of laser mass-limited foil interaction at ultra-high laser intensities. <i>Physics of Plasmas</i> , 2014 , 21, 053105	2.1	14
175	Intense terahertz radiation from relativistic laser-plasma interactions. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014039	2	14
174	Formation of super-Alfvénic electron jets during laser-driven magnetic reconnection at the Shenguang-II facility: particle-in-cell simulations. <i>New Journal of Physics</i> , 2014 , 16, 083021	2.9	14
173	Particle-in-cell simulations of magnetic reconnection in laser-plasma experiments on Shenguang-II facility. <i>Physics of Plasmas</i> , 2013 , 20, 112110	2.1	14
172	Electron-positron pair creation induced by quantum-mechanical tunneling. <i>Physical Review A</i> , 2011 , 83,	2.6	14
171	Controlled ionization-induced injection by tailoring the gas-density profile in laser wakefield acceleration. <i>Journal of Plasma Physics</i> , 2012 , 78, 363-371	2.7	14
170	Inverse bremsstrahlung absorption and the evolution of electron distributions accounting for electron-electron collisions. <i>Physics of Plasmas</i> , 2006 , 13, 113302	2.1	14
169	Model for transmission of ultrastrong laser pulses through thin foil targets. <i>Physical Review E</i> , 1999 , 59, 3583-3587	2.4	14
168	Effect of an electron plasma wave on the propagation of an ultrashort laser pulse. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993 , 10, 122	1.7	14
167	Acceleration of on-axis and ring-shaped electron beams in wakefields driven by Laguerre-Gaussian pulses. <i>Journal of Applied Physics</i> , 2016 , 119, 103101	2.5	14
166	Stable laser-plasma accelerators at low densities. <i>Journal of Applied Physics</i> , 2014 , 116, 043109	2.5	13
165	Particle simulation of filamentary structure formation in dielectric barrier discharge. <i>Applied Physics Letters</i> , 2013 , 102, 094103	3.4	13
164	Effects of relativistic electron temperature on parametric instabilities for intense laser propagation in underdense plasma. <i>Physics of Plasmas</i> , 2014 , 21, 112114	2.1	13
163	Monoenergetic electron bunches generated from thin solid foils irradiated by ultrashort, ultraintense circularly polarized lasers. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2010 , 13,		13

162	Plasma currents and electron distribution functions under a dc electric field of arbitrary strength. <i>Physical Review Letters</i> , 2008 , 100, 185001	7.4	13
161	Energetic electrons and protons generated from the interaction of ultrashort laser pulses with microdroplet plasmas. <i>Physics of Plasmas</i> , 2005 , 12, 113105	2.1	13
160	Ionization injection in a laser wakefield accelerator subject to a transverse magnetic field. <i>New Journal of Physics</i> , 2018 , 20, 063031	2.9	13
159	Influence of strong magnetic fields on laser pulse propagation in underdense plasma. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 065002	2	12
158	Terahertz radiation from plasma filament generated by two-color laser gas-plasma interaction. <i>Laser and Particle Beams</i> , 2015 , 33, 473-479	0.9	12
157	Propagation of a short-pulse laser-driven electron beam in matter. <i>Physics of Plasmas</i> , 2013 , 20, 033105	2.1	12
156	Surface-plasmon-enhanced MeV ions from femtosecond laser irradiated, periodically modulated surfaces. <i>Physics of Plasmas</i> , 2012 , 19, 030703	2.1	12
155	Three electron beams from a laser-plasma wakefield accelerator and the energy apportioning question. <i>Scientific Reports</i> , 2017 , 7, 43910	4.9	11
154	Backward terahertz radiation from intense laser-solid interactions. <i>Optics Express</i> , 2016 , 24, 4010-21	3.3	11
153	Laser-driven three-stage heavy-ion acceleration from relativistic laser-plasma interaction. <i>Physical Review E</i> , 2014 , 89, 013107	2.4	11
152	Enhanced pair plasma generation in the relativistic transparency regime. <i>Physics of Plasmas</i> , 2017 , 24, 103130	2.1	11
151	Production of high-density high-temperature plasma by collapsing small solid-density plasma shell with two ultra-intense laser pulses. <i>Applied Physics Letters</i> , 2012 , 100, 144101	3.4	11
150	Laser-induced short-range disorder in aluminum revealed by ultrafast electron diffuse scattering. <i>Applied Physics Letters</i> , 2013 , 103, 231914	3.4	11
149	Enhancement of ion generation in femtosecond ultraintense laser-foil interactions by defocusing. <i>Applied Physics Letters</i> , 2012 , 100, 084101	3.4	11
148	Effects of large laser bandwidth on stimulated Raman scattering instability in underdense plasma. <i>Physics of Plasmas</i> , 2015 , 22, 052119	2.1	10
147	Particle-in-cell simulations of electron energization in laser-driven magnetic reconnection. <i>New Journal of Physics</i> , 2016 , 18, 013051	2.9	10
146	Quasimonoenergetic proton bunches generation from doped foil targets irradiated by intense lasers. <i>Physics of Plasmas</i> , 2013 , 20, 024502	2.1	10
145	Probing the laser wakefield in underdense plasmas by induced terahertz emission. <i>Physics of Plasmas</i> , 2013 , 20, 080702	2.1	10

144	High quality electron beam acceleration by ionization injection in laser wakefields with mid-infrared dual-color lasers. <i>Physics of Plasmas</i> , 2016 , 23, 063113	2.1	10
143	Collimated GeV attosecond electron-positron bunches from a plasma channel driven by 10 PW lasers. <i>Matter and Radiation at Extremes</i> , 2019 , 4, 014401	4.7	10
142	Formation of high-speed electron jets as the evidence for magnetic reconnection in laser-produced plasma. <i>Physics of Plasmas</i> , 2017 , 24, 041406	2.1	9
141	Target transverse size and laser polarization effects on pair production during ultra-relativistic-intense laser interaction with solid targets. <i>Physics of Plasmas</i> , 2017 , 24, 063104	2.1	9
140	Mapping transient electric fields with picosecond electron bunches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14479-83	11.5	9
139	Effects of the background plasma temperature on the current filamentation instability. <i>Physics of Plasmas</i> , 2013 , 20, 032113	2.1	9
138	Robust relativistic electron mirrors in laser wakefields for enhanced Thomson backscattering. <i>Applied Physics Letters</i> , 2013 , 103, 261114	3.4	9
137	Towards Terawatt-Scale Spectrally Tunable Terahertz Pulses via Relativistic Laser-Foil Interactions. <i>Physical Review X</i> , 2020 , 10,	9.1	9
136	Collisionless electrostatic shock formation and ion acceleration in intense laser interactions with near critical density plasmas. <i>Physics of Plasmas</i> , 2016 , 23, 113103	2.1	9
135	Absolute instability modes due to rescattering of stimulated Raman scattering in a large nonuniform plasma. <i>High Power Laser Science and Engineering</i> , 2019 , 7,	4.3	8
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63	Mitigation of multibeam stimulated Raman scattering with polychromatic light. <i>Plasma Physics and Controlled Fusion</i> ,	2	3
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