

Zheng-Ming Sheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	All-optical quasi-monoenergetic GeV positron bunch generation by twisted laser fields. <i>Communications Physics</i> , 2022 , 5,	5.4	2
304	Frequency tuning for broadband terahertz emission from two-color laser-induced air plasma. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022 , 39, A68	1.7	1
303	Generation of single-cycle relativistic infrared pulses at wavelengths above 20 μm from density-tailored plasmas. <i>Matter and Radiation at Extremes</i> , 2022 , 7, 014403	4.7	3
302	On the role of bandwidth in pump and seed light waves for stimulated Raman scattering in inhomogeneous plasmas. <i>Physics of Plasmas</i> , 2022 , 29, 032102	2.1	0
301	Post-solitons and electron vortices generated by femtosecond intense laser interacting with uniform near-critical-density plasmas. <i>Chinese Physics B</i> , 2022 , 31, 045205	1.2	0
300	Ultrafast phenomena and terahertz waves: introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022 , 39, UPT1	1.7	0
299	Bessel Terahertz Pulses from Superluminal Laser Plasma Filaments. <i>Ultrafast Science</i> , 2022 , 2022, 1-6		2
298	Ion Acoustic Shock Wave Formation and Ion Acceleration in the Interactions of Pair Jets with Electron-Ion Plasmas. <i>Astrophysical Journal</i> , 2022 , 931, 36	4.7	0
297	Generation of 100-MeV Attosecond Electron Bunches with Terawatt Few-Cycle Laser Pulses. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2
296	Dynamics of moving electron vortices and magnetic ring in laser plasma interaction. <i>Physics of Plasmas</i> , 2021 , 28, 042303	2.1	2
295	Polarized proton acceleration in ultraintense laser interaction with near-critical-density plasmas. <i>Physical Review E</i> , 2021 , 104, 015216	2.4	1
294	Simulations of laser plasma instabilities using a particle-mesh method. <i>Plasma Physics and Controlled Fusion</i> , 2021 , 63, 095005	2	1
293	A history of high-power laser research and development in the United Kingdom. <i>High Power Laser Science and Engineering</i> , 2021 , 9,	4.3	2
292	Frequency blue shift of terahertz radiation from femtosecond laser induced air plasmas. <i>Applied Physics B: Lasers and Optics</i> , 2021 , 127, 1	1.9	3
291	Relativistic-induced opacity of electron-positron plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2021 , 63, 045010	2	0
290	Spectral control of terahertz radiation from inhomogeneous plasma filaments by tailoring two-color laser beams. <i>Optics Express</i> , 2021 , 29, 8676-8684	3.3	3
289	Mitigating parametric instabilities in plasmas by sunlight-like lasers. <i>Matter and Radiation at Extremes</i> , 2021 , 6, 055902	4.7	4

288	Uniform warm dense matter formed by direct laser heating in the presence of external magnetic fields. <i>Physical Review E</i> , 2020 , 101, 051202	2.4	1
287	Extremely brilliant GeV γ -rays from a two-stage laser-plasma accelerator. <i>Science Advances</i> , 2020 , 6, eaaz7249	12.49	24
286	Divergence control of relativistic harmonics by an optically shaped plasma surface. <i>Physical Review E</i> , 2020 , 101, 033202	2.4	3
285	Radiation reaction induced harmonics generation in ultra-relativistic intense laser interaction with plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2020 , 62, 055001	2	
284	Guided propagation of extremely intense lasers in plasma via ion motion. <i>Physical Review E</i> , 2020 , 101, 011201	2.4	2
283	Efficient generation of relativistic near-single-cycle mid-infrared pulses in plasmas. <i>Light: Science and Applications</i> , 2020 , 9, 46	16.7	6
282	EuPRAXIA Conceptual Design Report. <i>European Physical Journal: Special Topics</i> , 2020 , 229, 3675-4284	2.3	23
281	Plasma modulator for high-power intense lasers. <i>Optics Express</i> , 2020 , 28, 15794-15804	3.3	2
280	Betatron radiation polarization control by using an off-axis ionization injection in a laser wakefield acceleration. <i>Optics Express</i> , 2020 , 28, 29927-29936	3.3	2
279	Phase evolution of terahertz radiation from femtosecond laser-induced air plasma. <i>Optics Letters</i> , 2020 , 45, 1966-1969	3	4
278	Control of transverse motion and x-ray emission of electrons accelerated in laser-driven wakefields by tuning laser spatial chirp. <i>Plasma Physics and Controlled Fusion</i> , 2020 , 62, 024002	2	1
277	Growth, saturation, and collapse of laser-driven plasma density gratings. <i>Physics of Plasmas</i> , 2020 , 27, 073105	2.1	4
276	Stimulated Raman scattering in a non-eigenmode regime. <i>High Power Laser Science and Engineering</i> , 2020 , 8,	4.3	2
275	Proton beams from intense laser-solid interaction: Effects of the target materials. <i>Matter and Radiation at Extremes</i> , 2020 , 5, 064402	4.7	6
274	Towards Terawatt-Scale Spectrally Tunable Terahertz Pulses via Relativistic Laser-Foil Interactions. <i>Physical Review X</i> , 2020 , 10,	9.1	9
273	EuPRAXIA γ compact, cost-efficient particle and radiation source 2019 ,		3
272	Sub-femtosecond electron bunches in laser wakefield acceleration via injection suppression with a magnetic field. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 085015	2	7
271	High-flux x-ray photon emission by a superluminal hybrid electromagnetic mode of intense laser in a plasma waveguide. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 085026	2	

270	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
269	Spatiotemporally Controllable Plasma Lattice Structures in Dielectric Barrier Discharge. <i>Physical Review Applied</i> , 2019 , 11,	4.3	6
268	Strong Terahertz Radiation from a Liquid-Water Line. <i>Physical Review Applied</i> , 2019 , 12,	4.3	23
267	Suppression of parametric instabilities in inhomogeneous plasma with multi-frequency light. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 115008	2	4
266	Double optimal density gradients for harmonic generation from relativistically oscillating plasma surfaces. <i>Physics of Plasmas</i> , 2019 , 26, 103102	2.1	6
265	Single-Cycle Terawatt Twisted-Light Pulses at Midinfrared Wavelengths above 10 μm . <i>Physical Review Applied</i> , 2019 , 12,	4.3	7
264	Application programmes at the Scottish Centre for the Application of Plasma-based Accelerators (SCAPA) 2019 ,		3
263	Simultaneous polarization transformation and amplification of multi-petawatt laser pulses in magnetized plasmas. <i>Optics Express</i> , 2019 , 27, 19319-19330	3.3	8
262	Highly Tunable Polarized Chromatic Plasmonic Films Based on Subwavelength Grating Templates. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800661	6.8	2
261	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
260	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
259	High-quality high-order harmonic generation through preplasma truncation. <i>Physical Review E</i> , 2019 , 100, 053207	2.4	3
258	Mapping electromagnetic fields structure in plasma using a spin polarized electron beam. <i>Physics of Plasmas</i> , 2019 , 26, 123106	2.1	0
257	Mechanisms of fine structure formation in dielectric barrier discharges. <i>Physics of Plasmas</i> , 2018 , 25, 023502	2.1	7
256	Role of the spatial inhomogeneity on the laser-induced vacuum decay. <i>Physical Review A</i> , 2018 , 97,	2.6	19
255	Demonstration of laser-produced neutron diagnostic by radiative capture gamma-rays. <i>Review of Scientific Instruments</i> , 2018 , 89, 023505	1.7	
254	Multistage Coupling of Laser-Wakefield Accelerators with Curved Plasma Channels. <i>Physical Review Letters</i> , 2018 , 120, 154801	7.4	37
253	A flexible, on-line magnetic spectrometer for ultra-intense laser produced fast electron measurement. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 887, 54-58	1.2	1

252	QED effects induced harmonics generation in extreme intense laser foil interaction. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 044011	2	4
251	QED cascade saturation in extreme high fields. <i>Scientific Reports</i> , 2018 , 8, 8400	4.9	23
250	Attosecond electron bunches from a nanofiber driven by Laguerre-Gaussian laser pulses. <i>Scientific Reports</i> , 2018 , 8, 7282	4.9	25
249	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
248	Manipulation of polarizations for broadband terahertz waves emitted from laser plasma filaments. <i>Nature Photonics</i> , 2018 , 12, 554-559	33.9	60
247	Proton acceleration from vacuum-gapped double-foil target with low-contrast picosecond intense laser. <i>Physics of Plasmas</i> , 2018 , 25, 073108	2.1	1
246	Collimated gamma rays from laser wakefield accelerated electrons. <i>Matter and Radiation at Extremes</i> , 2018 , 3, 188-196	4.7	5
245	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
244	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
243	Very-long distance propagation of high-energy laser pulse in air. <i>Physics of Plasmas</i> , 2018 , 25, 113111	2.1	
242	Summary of laser plasma physics sessions at the first AAPPs-DPP conference. <i>Reviews of Modern Plasma Physics</i> , 2018 , 2, 1	5.6	0
241	Ion beam bunching via phase rotation in cascading laser-driven ion acceleration. <i>Physics of Plasmas</i> , 2018 , 25, 083116	2.1	3
240	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
239	Periodic spectral modulations of low-energy, low-charge-state carbon ions accelerated in an intense laser-solid interaction. <i>Physics of Plasmas</i> , 2018 , 25, 043122	2.1	1
238	Bright attosecond γ -ray pulses from nonlinear Compton scattering with laser-illuminated compound targets. <i>Applied Physics Letters</i> , 2018 , 112, 174102	3.4	28
237	Efficient injection of radiation-pressure-accelerated sub-relativistic protons into laser wakefield acceleration based on 10 PW lasers. <i>Physics of Plasmas</i> , 2018 , 25, 063103	2.1	8
236	Evolution of filaments and associated magnetic fields produced by the Weibel Instability in two counterstreaming laser plasmas. <i>Physics of Plasmas</i> , 2018 , 25, 062123	2.1	
235	Terahertz generation from laser-driven ultrafast current propagation along a wire target. <i>Physical Review E</i> , 2017 , 95, 013201	2.4	14

234	Aligned copper nanorod arrays for highly efficient generation of intense ultra-broadband THz pulses. <i>Scientific Reports</i> , 2017 , 7, 40058	4.9	23
233	Effects of ion motion on linear Landau damping. <i>Physics of Plasmas</i> , 2017 , 24, 022101	2.1	5
232	Three electron beams from a laser-plasma wakefield accelerator and the energy apportioning question. <i>Scientific Reports</i> , 2017 , 7, 43910	4.9	11
231	Large-Fluence Laser-Driven Ion Beam for Inertial Fusion Ignition 2017 , 775-782		
230	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
229	Influence of strong magnetic fields on laser pulse propagation in underdense plasma. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 065002	2	12
228	Cascaded acceleration of proton beams in ultrashort laser-irradiated microtubes. <i>Physics of Plasmas</i> , 2017 , 24, 093117	2.1	3
227	Magnetic field annihilation and reconnection driven by femtosecond lasers in inhomogeneous plasma. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017 , 60, 1	3.6	3
226	Inhibition of stimulated Raman scattering due to the excitation of stimulated Brillouin scattering. <i>Physics of Plasmas</i> , 2017 , 24, 092116	2.1	2
225	Extreme case of Faraday effect: magnetic splitting of ultrashort laser pulses in plasmas. <i>Optica</i> , 2017 , 4, 1086	8.6	32
224	Formation of electron energy spectra during magnetic reconnection in laser-produced plasma. <i>Physics of Plasmas</i> , 2017 , 24, 102101	2.1	8
223	Formation of side discharges in dielectric barrier discharge. <i>Scientific Reports</i> , 2017 , 7, 8368	4.9	5
222	Stimulated Raman scattering excited by incoherent light in plasma. <i>Matter and Radiation at Extremes</i> , 2017 , 2, 190-196	4.7	15
221	Towards Attosecond High-Energy Electron Bunches: Controlling Self-Injection in Laser-Wakefield Accelerators Through Plasma-Density Modulation. <i>Physical Review Letters</i> , 2017 , 119, 044801	7.4	28
220	Effective suppression of parametric instabilities with decoupled broadband lasers in plasma. <i>Physics of Plasmas</i> , 2017 , 24, 112102	2.1	15
219	Plasma optical shutter in ultraintense laser-foil interaction. <i>Physics of Plasmas</i> , 2017 , 24, 113111	2.1	6
218	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
217	Particle-in-cell/Monte Carlo simulation of filamentary barrier discharges. <i>Plasma Science and Technology</i> , 2017 , 19, 115401	1.5	

216	Containing intense laser light in circular cavity with magnetic trap door. <i>Applied Physics Letters</i> , 2017 , 110, 111903	3.4	5
215	Acceleration and radiation of externally injected electrons in laser plasma wakefield driven by a Laguerre-Gaussian pulse. <i>Chinese Physics B</i> , 2017 , 26, 115204	1.2	2
214	Acceleration and Pickup Ring of Energetic Electrons Observed in Relativistic Magnetic Reconnection Simulations. <i>Astrophysical Journal</i> , 2017 , 849, 137	4.7	7
213	Enhanced pair plasma generation in the relativistic transparency regime. <i>Physics of Plasmas</i> , 2017 , 24, 103130	2.1	11
212	Wide-angle electron beams from laser-wakefield accelerators 2017 ,		1
211	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
210	Intense terahertz radiation from relativistic laser-plasma interactions. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014039	2	14
209	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
208	Directional enhancement of selected high-order-harmonics from intense laser irradiated blazed grating targets. <i>Optics Express</i> , 2017 , 25, 23567-23578	3.3	7
207	Single-stage plasma-based correlated energy spread compensation for ultrahigh 6D brightness electron beams. <i>Nature Communications</i> , 2017 , 8, 15705	17.4	43
206	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
205	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
204	Demonstration of Coherent Terahertz Transition Radiation from Relativistic Laser-Solid Interactions. <i>Physical Review Letters</i> , 2016 , 116, 205003	7.4	73
203	Dense blocks of energetic ions driven by multi-petawatt lasers. <i>Scientific Reports</i> , 2016 , 6, 22150	4.9	23
202	Laser propagation in dense magnetized plasma. <i>Physical Review E</i> , 2016 , 94, 053207	2.4	19
201	A compact tunable polarized X-ray source based on laser-plasma helical undulators. <i>Scientific Reports</i> , 2016 , 6, 29101	4.9	27
200	Particle-in-cell simulations of electron energization in laser-driven magnetic reconnection. <i>New Journal of Physics</i> , 2016 , 18, 013051	2.9	10
199	Controllable Laser Ion Acceleration. <i>Journal of Physics: Conference Series</i> , 2016 , 691, 012021	0.3	4

198	Backward terahertz radiation from intense laser-solid interactions. <i>Optics Express</i> , 2016 , 24, 4010-21	3.3	11
197	Combined proton acceleration from foil targets by ultraintense short laser pulses. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 045025	2	8
196	Ionization Induced Electron Injection in Laser Wakefield Acceleration 2016 , 163-182		1
195	Studies of high energy density physics and laboratory astrophysics driven by intense lasers. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012004	0.3	
194	Charge Accretion Rate and Injection Radius of Ionized-Induced Injections in Laser Wakefield Accelerators. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012130	0.3	1
193	Picosecond laser-driven terahertz radiation from large scale preplasmas of solid targets. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012105	0.3	1
192	The Influence of Discharge Capillary Size, Distance, and Gas Composition on the Non-Equilibrium State of Microplasma. <i>Plasma Processes and Polymers</i> , 2016 , 13, 690-697	3.4	4
191	Laser Wakefield Acceleration Using Mid-Infrared Laser Pulses. <i>Chinese Physics Letters</i> , 2016 , 33, 095202	1.8	5
190	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
189	Controllable Terahertz Radiation from a Linear-Dipole Array Formed by a Two-Color Laser Filament in Air. <i>Physical Review Letters</i> , 2016 , 117, 243901	7.4	36
188	Plasma optical modulators for intense lasers. <i>Nature Communications</i> , 2016 , 7, 11893	17.4	22
187	Dense GeV electron-positron pairs generated by lasers in near-critical-density plasmas. <i>Nature Communications</i> , 2016 , 7, 13686	17.4	88
186	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
185	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
184	A two-dimensional angular-resolved proton spectrometer. <i>Review of Scientific Instruments</i> , 2016 , 87, 103301	1.7	2
183	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
182	Tunable synchrotron-like radiation from centimeter scale plasma channels. <i>Light: Science and Applications</i> , 2016 , 5, e16015	16.7	41
181	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

180	Effects of large laser bandwidth on stimulated Raman scattering instability in underdense plasma. <i>Physics of Plasmas</i> , 2015 , 22, 052119	2.1	10
179	Preferential enhancement of laser-driven carbon ion acceleration from optimized nanostructured surfaces. <i>Scientific Reports</i> , 2015 , 5, 11930	4.9	14
178	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
177	Surface properties and biocompatibility of nanostructured TiO ₂ film deposited by RF magnetron sputtering. <i>Nanoscale Research Letters</i> , 2015 , 10, 56	5	27
176	Directed fast electron beams in ultraintense picosecond laser irradiated solid targets. <i>Applied Physics Letters</i> , 2015 , 107, 091111	3.4	4
175	Two-stage acceleration of interstellar ions driven by high-energy lepton plasma flows. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015 , 58, 1	3.6	4
174	Contrasting levels of absorption of intense femtosecond laser pulses by solids. <i>Scientific Reports</i> , 2015 , 5, 17870	4.9	21
173	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
172	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
171	Dense Helical Electron Bunch Generation in Near-Critical Density Plasmas with Ultrarelativistic Laser Intensities. <i>Scientific Reports</i> , 2015 , 5, 15499	4.9	31
170	Demonstration of self-truncated ionization injection for GeV electron beams. <i>Scientific Reports</i> , 2015 , 5, 14659	4.9	68
169	Reducing ion energy spread in hole-boring radiation pressure acceleration by using two-ion-species targets. <i>Laser and Particle Beams</i> , 2015 , 33, 103-107	0.9	7
168	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
167	Enhancement of laser-driven betatron radiation. <i>Optical Engineering</i> , 2015 , 54, 127105	1.1	
166	Studies of powerful terahertz radiation from laser-produced plasmas 2015 ,		2
165	Absorption of ultrashort intense lasers in laser-solid interactions. <i>Chinese Physics B</i> , 2015 , 24, 015201	1.2	21
164	High-Quality Laser-Driven Electron Beams by Ionization Injection in Low-Density Nitrogen Gas Jet. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 539-543	1.3	1
163	Highly anisotropic metasurface: a polarized beam splitter and hologram. <i>Scientific Reports</i> , 2014 , 4, 64914.9		32

162	Laser-driven three-stage heavy-ion acceleration from relativistic laser-plasma interaction. <i>Physical Review E</i> , 2014 , 89, 013107	2.4	11
161	Radially polarized, half-cycle, attosecond pulses from laser wakefields through coherent synchrotronlike radiation. <i>Physical Review E</i> , 2014 , 90, 043104	2.4	7
160	Dynamics of laser mass-limited foil interaction at ultra-high laser intensities. <i>Physics of Plasmas</i> , 2014 , 21, 053105	2.1	14
159	Concurrence of monoenergetic electron beams and bright X-rays from an evolving laser-plasma bubble. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5825-30	11.5	37
158	Stable laser-plasma accelerators at low densities. <i>Journal of Applied Physics</i> , 2014 , 116, 043109	2.5	13
157	Three-dimensional fast magnetic reconnection driven by relativistic ultraintense femtosecond lasers. <i>Physical Review E</i> , 2014 , 89, 031101	2.4	21
156	Proton angular distribution research by a new angle-resolved proton energy spectrometer. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 844-848	3.6	2
155	Electromagnetic radiation from laser wakefields in underdense plasma. <i>High Power Laser Science and Engineering</i> , 2014 , 2,	4.3	1
154	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
153	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
152	Role of resonance absorption in terahertz radiation generation from solid targets. <i>Optics Express</i> , 2014 , 22, 11797-803	3.3	15
151	Enhanced single-stage laser-driven electron acceleration by self-controlled ionization injection. <i>Optics Express</i> , 2014 , 22, 29578-86	3.3	16
150	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
149	Simultaneous investigation of ultrafast structural dynamics and transient electric field by sub-picosecond electron pulses. <i>Journal of Applied Physics</i> , 2014 , 115, 183507	2.5	6
148	Angle-dependent modulated spectral peaks of proton beams generated in ultrashort intense laser-solid interactions. <i>Physics of Plasmas</i> , 2014 , 21, 093111	2.1	2
147	Dual-frequency terahertz emission from splitting filaments induced by lens tilting in air. <i>Applied Physics Letters</i> , 2014 , 105, 101110	3.4	4
146	Coherent kilo-electron-volt backscattering from plasma-wave boosted relativistic electron mirrors. <i>Applied Physics Letters</i> , 2014 , 105, 161102	3.4	6
145	Self-truncated ionization injection and consequent monoenergetic electron bunches in laser wakefield acceleration. <i>Physics of Plasmas</i> , 2014 , 21, 030701	2.1	43

144	Spectrum bandwidth narrowing of Thomson scattering X-rays with energy chirped electron beams from laser wakefield acceleration. <i>Applied Physics Letters</i> , 2014 , 104, 013903	3.4	6
143	Terahertz radiation by two-color lasers due to the field ionization of gases. <i>Physical Review E</i> , 2013 , 87,	2.4	21
142	Betatron-like resonance in ultra-intense laser mass-limited foil interaction. <i>Plasma Physics and Controlled Fusion</i> , 2013 , 55, 085021	2	8
141	Particle-in-Cell Simulations of Fast Magnetic Reconnection in Laser-Plasma Interaction. <i>Chinese Physics Letters</i> , 2013 , 30, 045201	1.8	3
140	Three dimensional effects on proton acceleration by intense laser solid target interaction. <i>Physics of Plasmas</i> , 2013 , 20, 063107	2.1	18
139	Quasimonoenergetic proton bunches generation from doped foil targets irradiated by intense lasers. <i>Physics of Plasmas</i> , 2013 , 20, 024502	2.1	10
138	Propagation of a short-pulse laser-driven electron beam in matter. <i>Physics of Plasmas</i> , 2013 , 20, 033105	2.1	12
137	Particle simulation of filamentary structure formation in dielectric barrier discharge. <i>Applied Physics Letters</i> , 2013 , 102, 094103	3.4	13
136	Effects of the background plasma temperature on the current filamentation instability. <i>Physics of Plasmas</i> , 2013 , 20, 032113	2.1	9
135	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
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