

Sergei V Bulanov

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.

252
papers

13,819
citations

56
h-index

114
g-index

288
ext. papers

15,520
ext. citations

3.2
avg, IF

6.24
L-index

#	Paper	IF	Citations
252	Dynamics of moving electron vortices and magnetic ring in laser plasma interaction. <i>Physics of Plasmas</i> , 2021 , 28, 042303	2.1	2
251	Creation of an axially uniform plasma channel in a laser-assisted capillary discharge. <i>Physics of Plasmas</i> , 2021 , 28, 053104	2.1	2
250	Nonlinear waves in a dispersive vacuum described with a high order derivative electromagnetic Lagrangian. <i>Physical Review D</i> , 2021 , 103,	4.9	1
249	Two-color nonlinear resonances in betatron oscillations of laser accelerated relativistic electrons. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
248	Electron Dynamics in the Field of Strong Plasma and Electromagnetic Waves: A Review. <i>Physics of Wave Phenomena</i> , 2021 , 29, 1-46	1.2	
247	Magnetic field annihilation and charged particle acceleration in ultra-relativistic laser plasmas. <i>High Power Laser Science and Engineering</i> , 2021 , 9,	4.3	3
246	Gamma-ray flash generation in irradiating a thin foil target by a single-cycle tightly focused extreme power laser pulse. <i>Physical Review E</i> , 2021 , 104, 015203	2.4	0
245	Superluminal-subluminal orbital angular momentum femtosecond laser focus. <i>Optics Express</i> , 2021 , 29, 31665-31679	3.3	0
244	On the electromagnetic-electron rings originating from the interaction of high-power short-pulse laser and underdense plasma. <i>Physics of Plasmas</i> , 2021 , 28, 122104	2.1	0
243	Relativistic flying forcibly oscillating reflective diffraction grating. <i>Physical Review E</i> , 2020 , 102, 053202	2.4	0
242	Laser-heated capillary discharge plasma waveguides for electron acceleration to 8 GeV. <i>Physics of Plasmas</i> , 2020 , 27, 053102	2.1	12
241	Optical probing of relativistic plasma singularities. <i>Physics of Plasmas</i> , 2020 , 27, 052103	2.1	4
240	Nonlinear electrodynamic at cylindrical filamentation fronts. <i>Rendiconti Lincei</i> , 2020 , 31, 303-313	1.7	1
239	Towards laser ion acceleration with holed targets. <i>Journal of Plasma Physics</i> , 2020 , 86,	2.7	1
238	Plasma channel formation in the knife-like focus of laser beam. <i>Journal of Plasma Physics</i> , 2020 , 86,	2.7	1
237	Recoil effects on reflection from relativistic mirrors in laser plasmas. <i>Physics of Plasmas</i> , 2020 , 27, 032102	2.1	5
236	Observation of Burst Intensification by Singularity Emitting Radiation generated from relativistic plasma with a high-intensity laser. <i>High Energy Density Physics</i> , 2020 , 36, 100751	1.2	2

235	Laser-driven generation of collimated quasi-monoenergetic proton beam using double-layer target with modulated interface. <i>High Energy Density Physics</i> , 2020 , 36, 100844	1.2	1
234	Electromagnetic solitons in quantum vacuum. <i>Physical Review D</i> , 2020 , 101,	4.9	7
233	Preplasma effects on laser ion generation from thin foil targets. <i>Physics of Plasmas</i> , 2020 , 27, 013107	2.1	4
232	Spherically focused electromagnetic wave: diffraction optics approach and high-power limits. <i>Optics Express</i> , 2020 , 28, 13991-14006	3.3	3
231	Relativistic plasma physics in supercritical fields. <i>Physics of Plasmas</i> , 2020 , 27, 050601	2.1	29
230	Target normal sheath acceleration with a large laser focal diameter. <i>Physics of Plasmas</i> , 2020 , 27, 123104.	2.1	1
229	Nonlinear, nondispersive wave equations: Lagrangian and Hamiltonian functions in the hodograph transformation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126064	2.3	4
228	Photon scattering by a Spherically-focused ultrastrong electromagnetic wave. <i>Physical Review A</i> , 2020 , 102,	2.6	1
227	Electron-positron pair creation in the electric fields generated by micro-bubble implosions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126854	2.3	6
226	Laser-heated capillary discharge waveguides as tunable structures for laser-plasma acceleration. <i>Physics of Plasmas</i> , 2020 , 27, 093101	2.1	2
225	Relativistic slingshot: A source for single circularly polarized attosecond x-ray pulses. <i>Physical Review E</i> , 2020 , 102, 061201	2.4	5
224	Polarity reversal of wakefields driven by ultrashort pulse laser. <i>Physical Review E</i> , 2020 , 102, 053216	2.4	1
223	Electromagnetic shocks in the quantum vacuum. <i>Physical Review D</i> , 2019 , 99,	4.9	13
222	Imprint of the stochastic nature of photon emission by electrons on the proton energy spectra in the laser-plasma interaction. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 084010	2	2
221	Properties of finite amplitude electromagnetic waves propagating in the quantum vacuum. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 084002	2	4
220	Petawatt Laser Guiding and Electron Beam Acceleration to 8 GeV in a Laser-Heated Capillary Discharge Waveguide. <i>Physical Review Letters</i> , 2019 , 122, 084801	7.4	291
219	Hodograph solutions of the wave equation of nonlinear electrodynamics in the quantum vacuum. <i>Physical Review D</i> , 2019 , 100,	4.9	4
218	Synergic Cherenkov-Compton radiation. <i>Physical Review D</i> , 2019 , 100,	4.9	5

217	Laser-Particle Collider for Multi-GeV Photon Production. <i>Physical Review Letters</i> , 2019 , 122, 254801	7.4	17
216	Ion acceleration in laser generated megatesla magnetic vortex. <i>Physics of Plasmas</i> , 2019 , 26, 103108	2.1	15
215	Dynamics of relativistic laser-produced plasmas. <i>Rendiconti Lincei</i> , 2019 , 30, 5-9	1.7	3
214	Electromagnetic Burst Generation during Annihilation of Magnetic Field in Relativistic Laser-Plasma Interaction. <i>Scientific Reports</i> , 2019 , 9, 19462	4.9	5
213	Multiple colliding laser pulses as a basis for studying high-field high-energy physics. <i>Physical Review A</i> , 2019 , 100,	2.6	5
212	High-Order Harmonics from Laser Irradiated Electron Density Singularity Formed at the Bow Wave in the Laser Plasma. <i>Physics of Wave Phenomena</i> , 2019 , 27, 247-256	1.2	5
211	High-Order Harmonic Generation by Relativistic Plasma Singularities: The Driving Laser Requirements. <i>Springer Proceedings in Physics</i> , 2018 , 85-92	0.2	1
210	Relativistically upshifted higher harmonic generation via relativistic flying mirrors. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 074007	2	9
209	Laser Requirements for High-Order Harmonic Generation by Relativistic Plasma Singularities. <i>Quantum Beam Science</i> , 2018 , 2, 7	1.6	3
208	Coherent, Short-Pulse X-ray Generation via Relativistic Flying Mirrors. <i>Quantum Beam Science</i> , 2018 , 2, 9	1.6	13
207	Analysis on the longitudinal field strength formed by tightly-focused radially-polarized femtosecond petawatt laser pulse. <i>Optics Express</i> , 2018 , 26, 33091-33107	3.3	5
206	Brilliant gamma-ray beam and electron-positron pair production by enhanced attosecond pulses. <i>Communications Physics</i> , 2018 , 1,	5.4	23
205	On annihilation of the relativistic electron vortex pair in collisionless plasmas. <i>Journal of Plasma Physics</i> , 2018 , 84,	2.7	5
204	High power gamma flare generation in multi-petawatt laser interaction with tailored targets. <i>Physics of Plasmas</i> , 2018 , 25, 123105	2.1	14
203	HELL: High-Energy Electrons by Laser Light, a User-Oriented Experimental Platform at ELI Beamlines. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1565	2.6	6
202	Boosting laser-ion acceleration with multi-picosecond pulses. <i>Scientific Reports</i> , 2017 , 7, 42451	4.9	51
201	High-efficiency γ -ray flash generation via multiple-laser scattering in ponderomotive potential well. <i>Physical Review E</i> , 2017 , 95, 013210	2.4	23
200	Evolution of relativistic electron vortices in laser plasmas 2017 ,		1

199	Magnetic reconnection: from MHD to QED. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014029	2	16
198	Laser beam coupling with capillary discharge plasma for laser wakefield acceleration applications. <i>Physics of Plasmas</i> , 2017 , 24, 083109	2.1	17
197	High contrast high intensity petawatt J-KAREN-P laser facility at QST 2017 ,		2
196	Depletion of Intense Fields. <i>Physical Review Letters</i> , 2017 , 118, 154803	7.4	32
195	Paradoxical stabilization of forced oscillations by strong nonlinear friction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 2559-2564	2.3	8
194	Burst intensification by singularity emitting radiation in multi-stream flows. <i>Scientific Reports</i> , 2017 , 7, 17968	4.9	21
193	On production and asymmetric focusing of flat electron beams using rectangular capillary discharge plasmas. <i>Physics of Plasmas</i> , 2017 , 24, 123120	2.1	6
192	Plasma equilibrium inside various cross-section capillary discharges. <i>Physics of Plasmas</i> , 2017 , 24, 053111	2.1	11
191	On some theoretical problems of laser wake-field accelerators. <i>Journal of Plasma Physics</i> , 2016 , 82,	2.7	26
190	Fast magnetic-field annihilation in the relativistic collisionless regime driven by two ultrashort high-intensity laser pulses. <i>Physical Review E</i> , 2016 , 93, 013203	2.4	19
189	Relativistic mirrors in laser plasmas (analytical methods). <i>Plasma Sources Science and Technology</i> , 2016 , 25, 053001	3.5	19
188	Fast magnetic energy dissipation in relativistic plasma induced by high order laser modes. <i>High Power Laser Science and Engineering</i> , 2016 , 4,	4.3	9
187	Explosion of relativistic electron vortices in laser plasmas. <i>Physics of Plasmas</i> , 2016 , 23, 093116	2.1	9
186	Laser ion acceleration from mass-limited targets with preplasma. <i>Physics of Plasmas</i> , 2016 , 23, 053114	2.1	6
185	Limitation of the plasma channel due to the frequency blueshift. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012054	0.3	1
184	Radiation pressure acceleration: The factors limiting maximum attainable ion energy. <i>Physics of Plasmas</i> , 2016 , 23, 056703	2.1	30
183	Relativistically strong electromagnetic radiation in a plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 122, 426-433	1	3
182	Towards a novel laser-driven method of exotic nuclei extraction—acceleration for fundamental physics and technology. <i>Plasma Physics Reports</i> , 2016 , 42, 327-337	1.2	9

181	Attractors and chaos of electron dynamics in electromagnetic standing waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 2044-2054	2.3	43
180	Evolution of relativistic solitons in underdense plasmas 2015 ,		1
179	High-Contrast, High-Intensity Petawatt-Class Laser and Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 232-249	3.8	44
178	Helium-3 and helium-4 acceleration by high power laser pulses for hadron therapy. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015 , 18,		21
177	Active Plasma Lensing for Relativistic Laser-Plasma-Accelerated Electron Beams. <i>Physical Review Letters</i> , 2015 , 115, 184802	7.4	111
176	Evolution of laser induced electromagnetic postsolitons in multi-species plasma. <i>Physics of Plasmas</i> , 2015 , 22, 112302	2.1	9
175	Stochastic regimes in the driven oscillator with a step-like nonlinearity. <i>Physics of Plasmas</i> , 2015 , 22, 063108	1.08	11
174	On the problems of relativistic laboratory astrophysics and fundamental physics with super powerful lasers. <i>Plasma Physics Reports</i> , 2015 , 41, 1-51	1.2	76
173	Multi-charged heavy ion acceleration from the ultra-intense short pulse laser system interacting with the metal target. <i>Review of Scientific Instruments</i> , 2014 , 85, 02B904	1.7	8
172	High order harmonics from relativistic electron spikes. <i>New Journal of Physics</i> , 2014 , 16, 093003	2.9	19
171	Phase space dynamics after the breaking of a relativistic Langmuir wave in a thermal plasma. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	8
170	Laser ion acceleration for hadron therapy. <i>Physics-Uspexhi</i> , 2014 , 57, 1149-1179	2.8	72
169	Multi-GeV electron beams from capillary-discharge-guided subpetawatt laser pulses in the self-trapping regime. <i>Physical Review Letters</i> , 2014 , 113, 245002	7.4	595
168	Prepulse and amplified spontaneous emission effects on the interaction of a petawatt class laser with thin solid targets. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 745, 150-163	1.2	38
167	Observation of Preformed Plasma Generated from a Thin-Foil Target for Laser-Driven Proton Acceleration. <i>The Review of Laser Engineering</i> , 2014 , 42, 160	0	
166	High Power Laser Developments with Femtosecond to Nanosecond Pulse Durations for Laser Shock Science and Engineering. <i>The Review of Laser Engineering</i> , 2014 , 42, 441	0	
165	Nonlinear plasma wave in magnetized plasmas. <i>Physics of Plasmas</i> , 2013 , 20, 083113	2.1	18
164	Laser-heater assisted plasma channel formation in capillary discharge waveguides. <i>Physics of Plasmas</i> , 2013 , 20, 020703	2.1	28

163	Controlling the generation of high frequency electromagnetic pulses with relativistic flying mirrors using an inhomogeneous plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1114-1118	2.3	11
162	Strong field electrodynamics of a thin foil. <i>Physics of Plasmas</i> , 2013 , 20, 123114	2.1	22
161	On extreme field limits in high power laser matter interactions: radiation dominant regimes in high intensity electromagnetic wave interaction with electrons 2013 ,		9
160	Generation of Quantum Beams in Large Clusters Irradiated by Super-Intense, High Contrast Femtosecond Laser Pulses. <i>Contributions To Plasma Physics</i> , 2013 , 53, 148-160	1.4	9
159	Electromagnetic cascade in high-energy electron, positron, and photon interactions with intense laser pulses. <i>Physical Review A</i> , 2013 , 87,	2.6	79
158	Relativistic mirrors in plasmas. Novel results and perspectives. <i>Physics-Uspekhi</i> , 2013 , 56, 429-464	2.8	83
157	On the design of experiments to study extreme field limits 2013 ,		3
156	Ultra-Intense, High Spatio-Temporal Quality Petawatt-Class Laser System and Applications. <i>Applied Sciences (Switzerland)</i> , 2013 , 3, 214-250	2.6	15
155	Possibility of measuring photon-photon scattering via relativistic mirrors. <i>Physical Review A</i> , 2012 , 86,	2.6	19
154	High performance imaging of relativistic soft X-ray harmonics by sub-micron resolution LiF film detectors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 2331-2335		6
153	High-power γ -ray flash generation in ultraintense laser-plasma interactions. <i>Physical Review Letters</i> , 2012 , 108, 195001	7.4	139
152	Soft-x-ray harmonic comb from relativistic electron spikes. <i>Physical Review Letters</i> , 2012 , 108, 135004	7.4	53
151	On the breaking of a plasma wave in a thermal plasma. II. Electromagnetic wave interaction with the breaking plasma wave. <i>Physics of Plasmas</i> , 2012 , 19, 113103	2.1	13
150	On the breaking of a plasma wave in a thermal plasma. I. The structure of the density singularity. <i>Physics of Plasmas</i> , 2012 , 19, 113102	2.1	17
149	Quasi-monochromatic pencil beam of laser-driven protons generated using a conical cavity target holder. <i>Physics of Plasmas</i> , 2012 , 19, 030706	2.1	7
148	Relativistic spherical plasma waves. <i>Physics of Plasmas</i> , 2012 , 19, 020702	2.1	19
147	Laser Technologies and the Combined Applications towards Vacuum Physics. <i>Progress of Theoretical Physics Supplement</i> , 2012 , 193, 236-243		4
146	Temporal contrast enhancement of petawatt-class laser pulses. <i>Optics Letters</i> , 2012 , 37, 3363-5	3	40

145	Proton acceleration to 40 MeV using a high intensity, high contrast optical parametric chirped-pulse amplification/Ti:sapphire hybrid laser system. <i>Optics Letters</i> , 2012 , 37, 2868-70	3	81
144	Strong Radiation-Damping Effects in a Gamma-Ray Source Generated by the Interaction of a High-Intensity Laser with a Wakefield-Accelerated Electron Beam. <i>Physical Review X</i> , 2012 , 2,	9.1	70
143	Proton Acceleration due to Anisotropic Coulomb Explosion of a Double-Layer Target Irradiated by an Intense Laser Pulse. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 024501	1.5	4
142	Ion acceleration from thin foil and extended plasma targets by slow electromagnetic wave and related ion-ion beam instability. <i>Physics of Plasmas</i> , 2012 , 19, 103105	2.1	24
141	Relativistic high harmonic generation in gas jet targets 2012 ,		1
140	Lorentz-Abraham-Dirac versus Landau-Lifshitz radiation friction force in the ultrarelativistic electron interaction with electromagnetic wave (exact solutions). <i>Physical Review E</i> , 2011 , 84, 056605	2.4	71
139	Efficient generation of Xe K-shell x rays by high-contrast interaction with submicrometer clusters. <i>Optics Letters</i> , 2011 , 36, 1614-6	3	22
138	On the design of experiments for the study of extreme field limits in the interaction of laser with ultrarelativistic electron beam. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 660, 31-42	1.2	59
137	Observation of plasma density dependence of electromagnetic soliton excitation by an intense laser pulse. <i>Physics of Plasmas</i> , 2011 , 18, 080704	2.1	16
136	Interaction of Short Laser Pulses in Wavelength Range from Infrared to X-ray with Metals, Semiconductors, and Dielectrics. <i>Contributions To Plasma Physics</i> , 2011 , 51, 361-366	1.4	18
135	Condition of MeV Electron Bunch Generated from Argon Gas-Jet Target in the Self-Modulated Laser Wakefield Regime. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 105001	1.5	6
134	Observation of magnetized soliton remnants in the wake of intense laser pulse propagation through plasmas. <i>Physical Review Letters</i> , 2010 , 105, 175002	7.4	36
133	Intense and Reproducible K α Emissions from Micron-Sized Kr Cluster Target Irradiated with Intense Femtosecond Laser Pulses. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 126401	1.4	10
132	Interaction of high contrast laser pulse with foam-attached target. <i>Physics of Plasmas</i> , 2010 , 17, 113107	2.1	34
131	Schwinger limit attainability with extreme power lasers. <i>Physical Review Letters</i> , 2010 , 105, 220407	7.4	120
130	Unlimited ion acceleration by radiation pressure. <i>Physical Review Letters</i> , 2010 , 104, 135003	7.4	121
129	Multiple colliding electromagnetic pulses: a way to lower the threshold of e ⁺ e ⁻ pair production from vacuum. <i>Physical Review Letters</i> , 2010 , 104, 220404	7.4	173
128	High-energy ions from near-critical density plasmas via magnetic vortex acceleration. <i>Physical Review Letters</i> , 2010 , 105, 135002	7.4	124

127	Development of A High-Contrast, High Beam-Quality, High-Intensity Laser. <i>The Review of Laser Engineering</i> , 2010 , 38, 669-675	0	
126	Proton Generation and Terahertz Radiation from A Thin-Foil Target with A High-Intensity Laser. <i>The Review of Laser Engineering</i> , 2010 , 38, 702-705	0	
125	Dependence of the ion energy on the parameters of the laser pulse and target in the radiation-pressure-dominated regime of acceleration. <i>Plasma Physics Reports</i> , 2010 , 36, 15-29	1.2	15
124	Simulation of magnetic reconnection in 3D geometry. <i>Mathematical Models and Computer Simulations</i> , 2010 , 2, 293-303	0.8	
123	Spallative ablation of dielectrics by X-ray laser. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 101, 87-96	2.6	27
122	Method of Observing the Spot Where Full-Power Counter-Propagating Laser Pulses Collide in Plasma Media. <i>Applied Physics Express</i> , 2010 , 3, 016101	2.4	2
121	A Novel Technique for Monitoring the Reproducibility of Laser Tape-Target Interactions Using an X-ray Pinhole Camera. <i>Journal of the Vacuum Society of Japan</i> , 2009 , 52, 570-574		
120	Laser pulse guiding and electron acceleration in the ablative capillary discharge plasma. <i>Physics of Plasmas</i> , 2009 , 16, 093101	2.1	24
119	Control of energy distribution of the proton beam with an oblique incidence of the laser pulse. <i>Physics of Plasmas</i> , 2009 , 16, 033111	2.1	6
118	Low-threshold ablation of dielectrics irradiated by picosecond soft x-ray laser pulses. <i>Applied Physics Letters</i> , 2009 , 94, 231107	3.4	39
117	Boosted high-harmonics pulse from a double-sided relativistic mirror. <i>Physical Review Letters</i> , 2009 , 103, 025002	7.4	45
116	Radial focusing and energy compression of a laser-produced proton beam by a synchronous rf field. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009 , 12,		8
115	Generation of stable and low-divergence 10-MeV quasimonoenergetic electron bunch using argon gas jet. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009 , 12,		23
114	Diagnostic of laser contrast using target reflectivity. <i>Applied Physics Letters</i> , 2009 , 94, 241102	3.4	27
113	Electron optical injection with head-on and countercrossing colliding laser pulses. <i>Physical Review Letters</i> , 2009 , 103, 194803	7.4	50
112	The effect of laser pulse incidence angle on the proton acceleration from a double-layer target. <i>Plasma Physics and Controlled Fusion</i> , 2009 , 51, 024002	2	7
111	Demonstration of Flying Mirror with Improved Efficiency 2009 ,		4
110	Observation of Low-Frequency Electromagnetic Radiation from Laser-Plasmas 2009 ,		2

109	Spallative Ablation of Metals and Dielectrics. <i>Contributions To Plasma Physics</i> , 2009 , 49, 455-466	1.4	27
108	Ionography of Submicron Foils and Nanostructures Using Ion Flow Generated in FS-Laser Cluster Plasma. <i>Contributions To Plasma Physics</i> , 2009 , 49, 507-516	1.4	3
107	On the ion acceleration by high power electromagnetic waves in the radiation pressure dominated regime. <i>Comptes Rendus Physique</i> , 2009 , 10, 216-226	1.4	20
106	High-intensity laser-driven particle and electromagnetic wave sources for science, industry, and medicine. <i>Frontiers of Optoelectronics in China</i> , 2009 , 2, 299-303		
105	Ionography of nanostructures with the use of a laser plasma of cluster targets. <i>JETP Letters</i> , 2009 , 89, 485-491	1.2	8
104	Stability of a plasma foil in the radiation pressure dominated regime. <i>European Physical Journal D</i> , 2009 , 55, 399-405	1.3	4
103	Relativistic laser-matter interaction and relativistic laboratory astrophysics. <i>European Physical Journal D</i> , 2009 , 55, 483-507	1.3	92
102	High-power laser-driven source of ultra-short X-ray and gamma-ray pulses. <i>European Physical Journal D</i> , 2009 , 55, 457-463	1.3	7
101	Experimental studies of the high and low frequency electromagnetic radiation produced from nonlinear laser-plasma interactions. <i>European Physical Journal D</i> , 2009 , 55, 465-474	1.3	12
100	Ion acceleration and stability in the radiation pressure dominated regime. <i>Laser Physics</i> , 2009 , 19, 222-227.	2.7	5
99	Enhancement of photon number reflected by the relativistic flying mirror. <i>Physical Review Letters</i> , 2009 , 103, 235003	7.4	77
98	Development of Laser-driven Proton Source Toward Its Applications. <i>Journal of the Optical Society of Korea</i> , 2009 , 13, 37-41		2
97	Propagation-based phase-contrast enhancement of nanostructure images using a debris-free femtosecond-laser-driven cluster-based plasma soft x-ray source and an LiF crystal detector. <i>Applied Optics</i> , 2009 , 48, 6271-6	0.2	16
96	Energy increase in multi-MeV ion acceleration in the interaction of a short pulse laser with a cluster-gas target. <i>Physical Review Letters</i> , 2009 , 103, 165002	7.4	144
95	Ion Acceleration Using Temporally-Controlled High-Intensity Laser Pulses. <i>The Review of Laser Engineering</i> , 2009 , 37, 449-454	0	
94	Tunable high-energy ion source via oblique laser pulse incident on a double-layer target. <i>Physical Review Letters</i> , 2008 , 100, 145001	7.4	28
93	Laser ion acceleration via control of the near-critical density target. <i>Physical Review E</i> , 2008 , 77, 016401	2.4	90
92	Electron Acceleration Based on an Elongated Plasma Channel. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1734-1737	1.3	2

91	Simultaneous Generation of UV Harmonics and Protons From a Thin-Foil Target With a High-Intensity Laser. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1812-1816	1.3	3
90	Interaction of electromagnetic waves with caustics in plasma flows. <i>Physical Review E</i> , 2008 , 78, 056402	2.4	39
89	Controlled electron injection into the wake wave using plasma density inhomogeneity. <i>Physics of Plasmas</i> , 2008 , 15, 073111	2.1	75
88	New Method to Measure the Rise Time of a Fast Pulse Slicer for Laser Ion Acceleration Research. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1872-1877	1.3	11
87	Radiotherapy using a laser proton accelerator. <i>AIP Conference Proceedings</i> , 2008 ,	0	22
86	Soft x-ray source for nanostructure imaging using femtosecond-laser-irradiated clusters. <i>Applied Physics Letters</i> , 2008 , 92, 121110	3.4	49
85	Bow wave from ultraintense electromagnetic pulses in plasmas. <i>Physical Review Letters</i> , 2008 , 101, 265001	0.1	41
84	Studies of laser wakefield structures and electron acceleration in underdense plasmas. <i>Physics of Plasmas</i> , 2008 , 15, 056703	2.1	33
83	Simultaneous generation of a proton beam and terahertz radiation in high-intensity laser and thin-foil interaction. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 90, 373-377	1.9	56
82	Relativistic electron beam slicing by wakefield in plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 4813-4816	2.3	7
81	Accelerating monoenergetic protons from ultrathin foils by flat-top laser pulses in the directed-Coulomb-explosion regime. <i>Physical Review E</i> , 2008 , 78, 026412	2.4	144
80	Photon bubbles and ion acceleration in a plasma dominated by the radiation pressure of an electromagnetic pulse. <i>Physical Review Letters</i> , 2007 , 99, 065002	7.4	216
79	On the production of flat electron bunches for laser wakefield acceleration. <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 105, 916-926	1	15
78	20 MeV QUASI-MONOENERGETIC ELECTRON BEAM PRODUCTION BY USING JLITE-X LASER SYSTEM AT JAEA-APRC. <i>International Journal of Modern Physics B</i> , 2007 , 21, 407-414	1.1	1
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