

Timur Esirkepov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6715203/publications.pdf>

Version: 2024-02-01

226
papers

9,998
citations

31976

53
h-index

37204

96
g-index

232
all docs

232
docs citations

232
times ranked

2678
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Highly Efficient Relativistic-Ion Generation in the Laser-Piston Regime. <i>Physical Review Letters</i> , 2004, 92, 175003. | 7.8 | 902 |
| 2 | Laser-plasma acceleration of quasi-monoenergetic protons from microstructured targets. <i>Nature</i> , 2006, 439, 445-448. | 27.8 | 670 |
| 3 | Oncological hadrontherapy with laser ion accelerators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 299, 240-247. | 2.1 | 456 |
| 4 | Exact charge conservation scheme for Particle-in-Cell simulation with an arbitrary form-factor. <i>Computer Physics Communications</i> , 2001, 135, 144-153. | 7.5 | 387 |
| 5 | Light Intensification towards the Schwinger Limit. <i>Physical Review Letters</i> , 2003, 91, 085001. | 7.8 | 314 |
| 6 | Proposed Double-Layer Target for the Generation of High-Quality Laser-Accelerated Ion Beams. <i>Physical Review Letters</i> , 2002, 89, 175003. | 7.8 | 275 |
| 7 | Macroscopic Evidence of Soliton Formation in Multiterawatt Laser-Plasma Interaction. <i>Physical Review Letters</i> , 2002, 88, 135002. | 7.8 | 199 |
| 8 | Laser Ion-Acceleration Scaling Laws Seen in Multiparametric Particle-in-Cell Simulations. <i>Physical Review Letters</i> , 2006, 96, 105001. | 7.8 | 199 |
| 9 | High-Power γ -Ray Flash Generation in Ultraintense Laser-Plasma Interactions. <i>Physical Review Letters</i> , 2012, 108, 195001. | 7.8 | 175 |
| 10 | 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. | 7.8 | 170 |
| 11 | High-Energy Ions from Near-Critical Density Plasmas via Magnetic Vortex Acceleration. <i>Physical Review Letters</i> , 2010, 105, 135002. | 7.8 | 158 |
| 12 | Solitonlike Electromagnetic Waves behind a Superintense Laser Pulse in a Plasma. <i>Physical Review Letters</i> , 1999, 82, 3440-3443. | 7.8 | 154 |
| 13 | Schwinger Limit Attainability with Extreme Power Lasers. <i>Physical Review Letters</i> , 2010, 105, 220407. | 7.8 | 154 |
| 14 | Unlimited Ion Acceleration by Radiation Pressure. <i>Physical Review Letters</i> , 2010, 104, 135003. | 7.8 | 140 |
| 15 | Energetic Protons from a Few-Micron Metallic Foil Evaporated by an Intense Laser Pulse. <i>Physical Review Letters</i> , 2003, 91, 215001. | 7.8 | 138 |
| 16 | Interaction of electromagnetic waves with plasma in the radiation-dominated regime. <i>Plasma Physics Reports</i> , 2004, 30, 196-213. | 0.9 | 121 |
| 17 | Low-frequency relativistic electromagnetic solitons in collisionless plasmas. <i>JETP Letters</i> , 1998, 68, 36-41. | 1.4 | 120 |
| 18 | Demonstration of Laser-Frequency Upshift by Electron-Density Modulations in a Plasma Wakefield. <i>Physical Review Letters</i> , 2007, 99, 135001. | 7.8 | 117 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electron Vortices Produced by Ultraintense Laser Pulses. <i>Physical Review Letters</i> , 1996, 76, 3562-3565. | 7.8 | 115 |
| 20 | High density collimated beams of relativistic ions produced by petawatt laser pulses in plasmas. <i>Physical Review E</i> , 2000, 62, 7271-7281. | 2.1 | 114 |
| 21 | Relativistic mirrors in plasmas. Novel results and perspectives. <i>Physics-Usppekhi</i> , 2013, 56, 429-464. | 2.2 | 112 |
| 22 | Relativistic laser-matter interaction and relativistic laboratory astrophysics. <i>European Physical Journal D</i> , 2009, 55, 483-507. | 1.3 | 109 |
| 23 | Nonlinear Thomson scattering in the strong radiation damping regime. <i>Physics of Plasmas</i> , 2005, 12, 093106. | 1.9 | 108 |
| 24 | Laser ion acceleration via control of the near-critical density target. <i>Physical Review E</i> , 2008, 77, 016401. | 2.1 | 107 |
| 25 | On the problems of relativistic laboratory astrophysics and fundamental physics with super powerful lasers. <i>Plasma Physics Reports</i> , 2015, 41, 1-51. | 0.9 | 106 |
| 26 | Formation of Electromagnetic Postsolitons in Plasmas. <i>Physical Review Letters</i> , 2001, 87, . | 7.8 | 105 |
| 27 | Laser ion acceleration for hadron therapy. <i>Physics-Usppekhi</i> , 2014, 57, 1149-1179. | 2.2 | 105 |
| 28 | High-contrast high-intensity repetitive petawatt laser. <i>Optics Letters</i> , 2018, 43, 2595. | 3.3 | 104 |
| 29 | Bursts of Superreflected Laser Light from Inhomogeneous Plasmas due to the Generation of Relativistic Solitary Waves. <i>Physical Review Letters</i> , 1999, 83, 3434-3437. | 7.8 | 101 |
| 30 | Enhancement of Photon Number Reflected by the Relativistic Flying Mirror. <i>Physical Review Letters</i> , 2009, 103, 235003. | 7.8 | 101 |
| 31 | 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. | 3.3 | 100 |
| 32 | Three-Dimensional Relativistic Electromagnetic Subcycle Solitons. <i>Physical Review Letters</i> , 2002, 89, 275002. | 7.8 | 96 |
| 33 | Controlled electron injection into the wake wave using plasma density inhomogeneity. <i>Physics of Plasmas</i> , 2008, 15, . | 1.9 | 88 |
| 34 | Frequency multiplication of light back-reflected from a relativistic wake wave. <i>Physics of Plasmas</i> , 2007, 14, 123106. | 1.9 | 85 |
| 35 | Ion acceleration by superintense laser pulses in plasmas. <i>JETP Letters</i> , 1999, 70, 82-89. | 1.4 | 83 |
| 36 | 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. | 2.1 | 83 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Attosecond pulse generation in the relativistic regime of the laser-foil interaction: The sliding mirror model. <i>Physics of Plasmas</i> , 2006, 13, 013107. | 1.9 | 82 |
| 38 | Generation of collimated beams of relativistic ions in laser-plasma interactions. <i>JETP Letters</i> , 2000, 71, 407-411. | 1.4 | 81 |
| 39 | Comment on "Collimated Multi-MeV Ion Beams from High-Intensity Laser Interactions with Underdense Plasma" Physical Review Letters, 2007, 98, 049503; discussion 049504. | 7.8 | 75 |
| 40 | Acceleration of highly charged GeV Fe ions from a low-Z substrate by intense femtosecond laser. <i>Physics of Plasmas</i> , 2015, 22, . | 1.9 | 75 |
| 41 | Electron dynamics and $\hat{\Gamma}^3$ and $\frac{d}{dt}$ by colliding laser pulses. <i>Physical Review F</i> , 2016, 93, 023207. | 2.1 | 74 |
| 42 | Efficiency of ion acceleration by a relativistically strong laser pulse in an underdense plasma. <i>Plasma Physics Reports</i> , 2001, 27, 211-220. | 0.9 | 73 |
| 43 | Quasi-monoenergetic electron beam generation during laser pulse interaction with very low density plasmas. <i>Physics of Plasmas</i> , 2005, 12, 093101. | 1.9 | 68 |
| 44 | 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. | 2.2 | 68 |
| 45 | Relativistic Interaction of Laser Pulses with Plasmas. <i>Reviews of Plasma Physics</i> , 2001, , 227-335. | 1.0 | 67 |
| 46 | Soft-X-Ray Harmonic Comb from Relativistic Electron Spikes. <i>Physical Review Letters</i> , 2012, 108, 135004. | 7.8 | 66 |
| 47 | Polarization, hosing and long time evolution of relativistic laser pulses. <i>Physics of Plasmas</i> , 2001, 8, 4149-4155. | 1.9 | 63 |
| 48 | Ion Acceleration in a Dipole Vortex in a Laser Plasma Corona. <i>Plasma Physics Reports</i> , 2005, 31, 369. | 0.9 | 61 |
| 49 | High-Contrast, High-Intensity Petawatt-Class Laser and Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 232-249. | 2.9 | 60 |
| 50 | Electron Optical Injection with Head-On and Countercrossing Colliding Laser Pulses. <i>Physical Review Letters</i> , 2009, 103, 194803. | 7.8 | 59 |
| 51 | On the design of experiments for the study of relativistic nonlinear optics in the limit of single-cycle pulse duration and single-wavelength spot size. <i>Plasma Physics Reports</i> , 2002, 28, 12-27. | 0.9 | 55 |
| 52 | 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. | 2.1 | 54 |
| 53 | Generation of high-quality charged particle beams during the acceleration of ions by high-power laser radiation. <i>Plasma Physics Reports</i> , 2002, 28, 975-991. | 0.9 | 53 |
| 54 | Boosted High-Harmonics Pulse from a Double-Sided Relativistic Mirror. <i>Physical Review Letters</i> , 2009, 103, 025002. | 7.8 | 53 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Forced magnetic field line reconnection in electron magnetohydrodynamics. <i>Physics of Plasmas</i> , 1998, 5, 2849-2860. | 1.9 | 52 |
| 56 | Bow Wave from Ultraintense Electromagnetic Pulses in Plasmas. <i>Physical Review Letters</i> , 2008, 101, 265001. | 7.8 | 48 |
| 57 | Radiation pressure acceleration: The factors limiting maximum attainable ion energy. <i>Physics of Plasmas</i> , 2016, 23, . | 1.9 | 48 |
| 58 | 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. | 1.6 | 46 |
| 59 | Interaction of electromagnetic waves with caustics in plasma flows. <i>Physical Review E</i> , 2008, 78, 056402. | 2.1 | 45 |
| 60 | Laser polarization dependence of proton emission from a thin foil target irradiated by a 70fs, intense laser pulse. <i>Physics of Plasmas</i> , 2005, 12, 100701. | 1.9 | 43 |
| 61 | Ion generation in a low-density plastic foam by interaction with intense femtosecond laser pulses. <i>Physical Review E</i> , 2004, 69, 026401. | 2.1 | 42 |
| 62 | Efficient production of a collimated MeV proton beam from a polyimide target driven by an intense femtosecond laser pulse. <i>Physics of Plasmas</i> , 2008, 15, . | 1.9 | 42 |
| 63 | The laser proton acceleration in the strong charge separation regime. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 357, 339-344. | 2.1 | 38 |
| 64 | Concerning the maximum energy of ions accelerated at the front of a relativistic electron cloud expanding into vacuum. <i>Plasma Physics Reports</i> , 2004, 30, 18-29. | 0.9 | 37 |
| 65 | Measurements of energy and angular distribution of hot electrons and protons emitted from a p- and s-polarized intense femtosecond laser pulse driven thin foil target. <i>Physics of Plasmas</i> , 2006, 13, 043104. | 1.9 | 37 |
| 66 | Observation of Magnetized Soliton Remnants in the Wake of Intense Laser Pulse Propagation through Plasmas. <i>Physical Review Letters</i> , 2010, 105, 175002. | 7.8 | 37 |
| 67 | Unlimited energy gain in the laser-driven radiation pressure dominant acceleration of ions. <i>Physics of Plasmas</i> , 2010, 17, . | 1.9 | 37 |
| 68 | Plasma Ion Evolution in the Wake of a High-Intensity Ultrashort Laser Pulse. <i>Physical Review Letters</i> , 2005, 94, 195003. | 7.8 | 36 |
| 69 | Single-cycle high-intensity electromagnetic pulse generation in the interaction of a plasma wakefield with regular nonlinear structures. <i>Physical Review E</i> , 2006, 73, 036408. | 2.1 | 36 |
| 70 | Controlled wake field acceleration via laser pulse shaping. <i>IEEE Transactions on Plasma Science</i> , 1996, 24, 393-399. | 1.3 | 35 |
| 71 | Generation of high-energy attosecond pulses by the relativistic-irradiance short laser pulse interacting with a thin foil. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 349, 256-263. | 2.1 | 35 |
| 72 | On some theoretical problems of laser wake-field accelerators. <i>Journal of Plasma Physics</i> , 2016, 82, . | 2.1 | 35 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Laser-Particle Collider for Multi-GeV Photon Production. Physical Review Letters, 2019, 122, 254801. | 7.8 | 35 |
| 74 | Diagnostic of laser contrast using target reflectivity. Applied Physics Letters, 2009, 94, . | 3.3 | 33 |
| 75 | Strong field electrodynamics of a thin foil. Physics of Plasmas, 2013, 20, 123114. | 1.9 | 33 |
| 76 | Tunable High-Energy Ion Source via Oblique Laser Pulse Incident on a Double-Layer Target. Physical Review Letters, 2008, 100, 145001. | 7.8 | 32 |
| 77 | Ion acceleration from thin foil and extended plasma targets by slow electromagnetic wave and related ion-ion beam instability. Physics of Plasmas, 2012, 19, . | 1.9 | 32 |
| 78 | Enhancement of Maximum Attainable Ion Energy in the Radiation Pressure Acceleration Regime Using a Guiding Structure. Physical Review Letters, 2015, 114, 105003. | 7.8 | 32 |
| 79 | High-efficiency γ -ray flash generation via multiple-laser scattering in ponderomotive potential well. Physical Review E, 2017, 95, 013210. | 2.1 | 32 |
| 80 | Soliton Synchrotron Afterglow in a Laser Plasma. Physical Review Letters, 2004, 92, 255001. | 7.8 | 31 |
| 81 | Feasibility of Using Laser Ion Accelerators in Proton Therapy. AIP Conference Proceedings, 2004, , . | 0.4 | 29 |
| 82 | Laser pulse guiding and electron acceleration in the ablative capillary discharge plasma. Physics of Plasmas, 2009, 16, . | 1.9 | 29 |
| 83 | Possibility of measuring photon-photon scattering via relativistic mirrors. Physical Review A, 2012, 86, . | 2.5 | 29 |
| 84 | Burst intensification by singularity emitting radiation in multi-stream flows. Scientific Reports, 2017, 7, 17968. | 3.3 | 28 |
| 85 | Spectral and dynamical features of the electron bunch accelerated by a short-pulse high intensity laser in an underdense plasma. Physics of Plasmas, 2005, 12, 073103. | 1.9 | 27 |
| 86 | Electron bunch acceleration in the wake wave breaking regime. Plasma Physics Reports, 2006, 32, 263-281. | 0.9 | 26 |
| 87 | Radiotherapy using a laser proton accelerator. AIP Conference Proceedings, 2008, , . | 0.4 | 26 |
| 88 | High order harmonics from relativistic electron spikes. New Journal of Physics, 2014, 16, 093003. | 2.9 | 26 |
| 89 | Phase rotation scheme of laser-produced ions for reduction of the energy spread. Laser Physics, 2006, 16, 647-653. | 1.2 | 25 |
| 90 | Polarization effects and anisotropy in three-dimensional relativistic self-focusing. Physical Review E, 2002, 65, 045402. | 2.1 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | High-order harmonics from an ultraintense laser pulse propagating inside a fiber. <i>Physical Review E</i> , 2003, 67, 016405. | 2.1 | 24 |
| 92 | Magnetic fields from high-intensity laser pulses in plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, B261-B272. | 2.1 | 23 |
| 93 | Coulomb explosion of a cluster irradiated by a high intensity laser pulse. <i>Laser and Particle Beams</i> , 2000, 18, 503-506. | 1.0 | 22 |
| 94 | 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, . | 1.9 | 22 |
| 95 | Relativistic mirrors in laser plasmas (analytical methods). <i>Plasma Sources Science and Technology</i> , 2016, 25, 053001. | 3.1 | 22 |
| 96 | Wave-breaking injection of electrons to a laser wake field in plasma channels at the strong focusing regime. <i>Physics of Plasmas</i> , 2006, 13, 103101. | 1.9 | 21 |
| 97 | On the ion acceleration by high power electromagnetic waves in the radiation pressure dominated regime. <i>Comptes Rendus Physique</i> , 2009, 10, 216-226. | 0.9 | 21 |
| 98 | Nonlinear plasma wave in magnetized plasmas. <i>Physics of Plasmas</i> , 2013, 20, . | 1.9 | 21 |
| 99 | 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. | 2.1 | 21 |
| 100 | High-Quality Laser-Produced Proton Beam Realized by the Application of a Synchronous RF Electric Field. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L717-L720. | 1.5 | 20 |
| 101 | Charged particle dynamics in multiple colliding electromagnetic waves. Survey of random walk, Lévy flights, limit circles, attractors and structurally determinate patterns. <i>Journal of Plasma Physics</i> , 2017, 83, . | 2.1 | 20 |
| 102 | Coulomb implosion mechanism of negative ion acceleration in laser plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2584-2587. | 2.1 | 19 |
| 103 | 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. | 0.9 | 17 |
| 104 | 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. | 1.9 | 17 |
| 105 | Coherent, Short-Pulse X-ray Generation via Relativistic Flying Mirrors. <i>Quantum Beam Science</i> , 2018, 2, 9. | 1.2 | 17 |
| 106 | High energy negative ion generation by Coulomb implosion mechanism. <i>Physics of Plasmas</i> , 2009, 16, 113106. | 1.9 | 16 |
| 107 | Ultra-Intense, High Spatio-Temporal Quality Petawatt-Class Laser System and Applications. <i>Applied Sciences (Switzerland)</i> , 2013, 3, 214-250. | 2.5 | 15 |
| 108 | Multiple colliding laser pulses as a basis for studying high-field high-energy physics. <i>Physical Review A</i> , 2019, 100, . | 2.5 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Ion acceleration regimes in underdense plasmas. IEEE Transactions on Plasma Science, 2000, 28, 1226-1232. | 1.3 | 14 |
| 110 | Special relativity in action in laser produced plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 347, 133-142. | 2.1 | 14 |
| 111 | Experimental studies of the high and low frequency electromagnetic radiation produced from nonlinear laser-plasma interactions. European Physical Journal D, 2009, 55, 465-474. | 1.3 | 14 |
| 112 | Fundamental physics and relativistic laboratory astrophysics with extreme power lasers. EAS Publications Series, 2012, 58, 7-22. | 0.3 | 14 |
| 113 | Towards a novel laser-driven method of exotic nuclei extraction acceleration for fundamental physics and technology. Plasma Physics Reports, 2016, 42, 327-337. | 0.9 | 14 |
| 114 | Magnetic interaction of ultrashort high-intensity laser pulses in plasmas. Plasma Physics and Controlled Fusion, 1997, 39, A137-A144. | 2.1 | 13 |
| 115 | Observation of strongly collimated proton beam from Tantalum targets irradiated with circular polarized laser pulses. Laser and Particle Beams, 2006, 24, 117-123. | 1.0 | 13 |
| 116 | New Method to Measure the Rise Time of a Fast Pulse Slicer for Laser Ion Acceleration Research. IEEE Transactions on Plasma Science, 2008, 36, 1872-1877. | 1.3 | 13 |
| 117 | Characteristics of Light Reflected from a Dense Ionization Wave with a Tunable Velocity. Physical Review Letters, 2009, 103, 215003. | 7.8 | 13 |
| 118 | Controlling the generation of high frequency electromagnetic pulses with relativistic flying mirrors using an inhomogeneous plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1114-1118. | 2.1 | 13 |
| 119 | Nonlinear Thomson scattering with strong radiation damping. Journal of Plasma Physics, 2006, 72, 1315. | 2.1 | 12 |
| 120 | Paradoxical stabilization of forced oscillations by strong nonlinear friction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2559-2564. | 2.1 | 12 |
| 121 | Relativistically upshifted higher harmonic generation via relativistic flying mirrors. Plasma Physics and Controlled Fusion, 2018, 60, 074007. | 2.1 | 12 |
| 122 | Evolution of the frequency spectrum of a relativistically strong laser pulse in a plasma. Physica Scripta, 1996, T63, 258-261. | 2.5 | 11 |
| 123 | Improvement of the Quality and Stability of Electron Bunch Using Countercrossing Laser Beam. IEEE Transactions on Plasma Science, 2008, 36, 1760-1764. | 1.3 | 11 |
| 124 | Fast magnetic field annihilation driven by two laser pulses in underdense plasma. Physics of Plasmas, 2015, 22, . | 1.9 | 11 |
| 125 | Stochastic regimes in the driven oscillator with a step-like nonlinearity. Physics of Plasmas, 2015, 22, . | 1.9 | 11 |
| 126 | Explosion of relativistic electron vortices in laser plasmas. Physics of Plasmas, 2016, 23, 093116. | 1.9 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Petawatt Femtosecond Laser Pulses from Titanium-Doped Sapphire Crystal. Crystals, 2020, 10, 783. | 2.2 | 11 |
| 128 | Laser-driven proton acceleration and plasma diagnostics with J-KAREN laser. Proceedings of SPIE, 2009, , . | 0.8 | 10 |
| 129 | On extreme field limits in high power laser matter interactions: radiation dominant regimes in high intensity electromagnetic wave interaction with electrons. , 2013, , . | | 10 |
| 130 | Evolution of laser induced electromagnetic postsolitons in multi-species plasma. Physics of Plasmas, 2015, 22, . | 1.9 | 10 |
| 131 | Recoil effects on reflection from relativistic mirrors in laser plasmas. Physics of Plasmas, 2020, 27, 032109. | 1.9 | 10 |
| 132 | Fast magnetic energy dissipation in relativistic plasma induced by high order laser modes. High Power Laser Science and Engineering, 2016, 4, . | 4.6 | 9 |
| 133 | Status and progress of the J-KAREN-P high intensity laser system at QST. High Energy Density Physics, 2020, 36, 100771. | 1.5 | 9 |
| 134 | High-power laser-driven source of ultra-short X-ray and gamma-ray pulses. European Physical Journal D, 2009, 55, 457-463. | 1.3 | 8 |
| 135 | Propagation of the high power laser pulse in multicomponent cluster targets. Laser Physics, 2009, 19, 228-230. | 1.2 | 8 |
| 136 | Ion acceleration via π -nonlinear vacuum heating TM by the laser pulse obliquely incident on a thin foil target. Plasma Physics and Controlled Fusion, 2016, 58, 025003. | 2.1 | 8 |
| 137 | Optical probing of relativistic plasma singularities. Physics of Plasmas, 2020, 27, . | 1.9 | 8 |
| 138 | Control of energy distribution of the proton beam with an oblique incidence of the laser pulse. Physics of Plasmas, 2009, 16, 033111. | 1.9 | 7 |
| 139 | The effect of laser pulse incidence angle on the proton acceleration from a double-layer target. Plasma Physics and Controlled Fusion, 2009, 51, 024002. | 2.1 | 7 |
| 140 | Quasi-monochromatic pencil beam of laser-driven protons generated using a conical cavity target holder. Physics of Plasmas, 2012, 19, 030706. | 1.9 | 7 |
| 141 | High performance imaging of relativistic soft X-ray harmonics by sub-micron resolution LiF film detectors. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2331-2335. | 0.8 | 7 |
| 142 | Laser ion acceleration from mass-limited targets with preplasma. Physics of Plasmas, 2016, 23, . | 1.9 | 7 |
| 143 | Nondrifting relativistic electromagnetic solitons in plasmas. Laser and Particle Beams, 2003, 21, 541-544. | 1.0 | 6 |
| 144 | Demonstration of Flying Mirror with Improved Efficiency. , 2009, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Effect of electromagnetic pulse transverse inhomogeneity on ion acceleration by radiation pressure. <i>Physics of Plasmas</i> , 2015, 22, 033112. | 1.9 | 6 |
| 146 | Laser Requirements for High-Order Harmonic Generation by Relativistic Plasma Singularities. <i>Quantum Beam Science</i> , 2018, 2, 7. | 1.2 | 6 |
| 147 | HIGH QUALITY LASER-PRODUCED PROTON BEAM GENERATION BY PHASE ROTATION. <i>International Journal of Modern Physics B</i> , 2007, 21, 319-330. | 2.0 | 5 |
| 148 | Extreme field science. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 124025. | 2.1 | 5 |
| 149 | On the design of experiments to study extreme field limits. , 2013, , . | | 5 |
| 150 | On annihilation of the relativistic electron vortex pair in collisionless plasmas. <i>Journal of Plasma Physics</i> , 2018, 84, . | 2.1 | 5 |
| 151 | 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. | 1.1 | 5 |
| 152 | Superluminal-subluminal orbital angular momentum femtosecond laser focus. <i>Optics Express</i> , 2021, 29, 31665. | 3.4 | 5 |
| 153 | Relativistic Electromagnetic Solitons Produced by Ultrastrong Laser Pulses in Plasmas. <i>AIP Conference Proceedings</i> , 2002, , . | 0.4 | 4 |
| 154 | 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 | 4 |
| 155 | Control of laser-accelerated proton beams by modifying the target density with ASE. <i>European Physical Journal D</i> , 2009, 55, 421-425. | 1.3 | 4 |
| 156 | Laser Technologies and the Combined Applications towards Vacuum Physics. <i>Progress of Theoretical Physics Supplement</i> , 2012, 193, 236-243. | 0.1 | 4 |
| 157 | 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. | 1.6 | 4 |
| 158 | Relativistic flying laser focus by a laser-produced parabolic plasma mirror. <i>Physical Review A</i> , 2021, 104, . | 2.5 | 4 |
| 159 | Development of Laser-driven Proton Source Toward Its Applications. <i>Journal of the Optical Society of Korea</i> , 2009, 13, 37-41. | 0.6 | 3 |
| 160 | Coherent x-ray generation in relativistic laser/gas jet interactions. , 2011, , . | | 3 |
| 161 | Relativistically strong electromagnetic radiation in a plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 122, 426-433. | 0.9 | 3 |
| 162 | Relativistic flying forcibly oscillating reflective diffraction grating. <i>Physical Review E</i> , 2020, 102, 053202. | 2.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Nonlinear electromagnetic phenomena in the relativistic interaction of ultrahigh intensity laser pulses with plasmas. <i>Laser and Particle Beams</i> , 2000, 18, 381-387. | 1.0 | 2 |
| 164 | Three-dimensional electromagnetic solitary waves in an underdense plasma in PIC simulations. <i>AIP Conference Proceedings</i> , 2002, , . | 0.4 | 2 |
| 165 | Simulation of electron bunch generation by an ultrashort-pulse high-intensity laser-driven wakefield. <i>Laser Physics</i> , 2006, 16, 252-258. | 1.2 | 2 |
| 166 | Generation of a quasimonoenergetic electron beam using a single laser pulse. <i>Laser Physics</i> , 2006, 16, 1107-1110. | 1.2 | 2 |
| 167 | Observation of Low-Frequency Electromagnetic Radiation from Laser-Plasmas. , 2009, , . | | 2 |
| 168 | Ion acceleration in the interaction of short pulse laser radiation with the cluster-gas target. , 2009, , . | | 2 |
| 169 | Intensity Scalings of Attosecond Pulse Generation by the Relativistic-irradiance Laser Pulses. <i>Springer Series in Optical Sciences</i> , 2007, , 265-272. | 0.7 | 2 |
| 170 | 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 |
| 171 | Generation and Propagation of High Quality Proton Beams Produced by Laser Plasma Interactions. <i>Physica Scripta</i> , 2004, T107, 130. | 2.5 | 1 |
| 172 | Efficient laser acceleration of proton beams for intense sources of low energy neutrinos. <i>AIP Conference Proceedings</i> , 2006, , . | 0.4 | 1 |
| 173 | Publisher's Note: Single-cycle high-intensity electromagnetic pulse generation in the interaction of a plasma wakefield with regular nonlinear structures [<i>Phys. Rev. E</i> 73, 036408 (2006)]. <i>Physical Review E</i> , 2006, 73, . | 2.1 | 1 |
| 174 | 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. | 2.0 | 1 |
| 175 | Relativistic Tennis Using Flying Mirror. <i>AIP Conference Proceedings</i> , 2008, , . | 0.4 | 1 |
| 176 | Relativistic high harmonic generation in gas jet targets. , 2012, , . | | 1 |
| 177 | Extreme field limits in the interaction of laser light with ultrarelativistic electrons. , 2012, , . | | 1 |
| 178 | Evolution of relativistic solitons in underdense plasmas. , 2015, , . | | 1 |
| 179 | Evolution of relativistic electron vortices in laser plasmas. <i>Proceedings of SPIE</i> , 2017, , . | 0.8 | 1 |
| 180 | High-Order Harmonic Generation by Relativistic Plasma Singularities: The Driving Laser Requirements. <i>Springer Proceedings in Physics</i> , 2018, , 85-92. | 0.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Polarity reversal of wakefields driven by ultrashort pulse laser. Physical Review E, 2020, 102, 053216. | 2.1 | 1 |
| 182 | Wakefield excited by ultrashort laser pulses in near-critical density plasmas. , 2019, , . | | 1 |
| 183 | 1022W/cm2, 0.1 Hz J-KAREN-P laser facility at QST. , 2017, , . | | 1 |
| 184 | Interaction of Charged Particles with Strong Electromagnetic Waves in the Radiation Dominated Regime. AIP Conference Proceedings, 2004, , . | 0.4 | 0 |
| 185 | Characterization of preformed plasmas using a multi-dimensional hydrodynamic simulation code in the study of high-intensity laserâ€“plasma interactions. Journal of Plasma Physics, 2006, 72, 1281. | 2.1 | 0 |
| 186 | Generation and characterization of electrons from a gas target irradiated by high-peak-power lasers. Laser Physics, 2006, 16, 576-580. | 1.2 | 0 |
| 187 | Hot Electrons Emitted from a Thin Foil Target Irradiated by Ultrashort Intense Laser Pulses. AIP Conference Proceedings, 2006, , . | 0.4 | 0 |
| 188 | Proton acceleration by oblique laser pulse incidence on a double-layer target. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 189 | Femtosecond laser driven high-flux highly collimated MeV-proton beam. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 190 | High-energy proton generation from thin-foil targets with a high-intensity ultra-short pulse laser. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 191 | Stable High-Quality Electron Bunch Generation via Counter-Crossing Injection. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 192 | Laser ion acceleration by a near-critical density target. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 193 | Effects of the laser pulse irradiation point on a double layer target on the accelerated ion beam parameters. , 2009, , . | | 0 |
| 194 | Radiation Reaction Effects in Ultrahigh Irradiance Laser Pulse Interactions with Multiple Electrons. , 2009, , . | | 0 |
| 195 | Acceleration of negative ions by Coulomb implosion mechanism. , 2009, , . | | 0 |
| 196 | Laser-driven high-power X- and $\hat{\Gamma}^3$ -ray ultra-short pulse source. , 2009, , . | | 0 |
| 197 | On-Target Contrast Diagnostic via Specular Reflectivity Measurement. , 2009, , . | | 0 |
| 198 | High-intensity laser-driven particle and electromagnetic wave sources for science, industry, and medicine. Frontiers of Optoelectronics in China, 2009, 2, 299-303. | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Ion Acceleration Using Temporally-Controlled High-Intensity Laser Pulses. The Review of Laser Engineering, 2009, 37, 449-454. | 0.0 | 0 |
| 200 | Proton Generation and Terahertz Radiation from A Thin-Foil Target with A High-Intensity Laser. The Review of Laser Engineering, 2010, 38, 702-705. | 0.0 | 0 |
| 201 | Relativistic Tennis with Photons: Frequency Up-Shifting, Light Intensification and Ion Acceleration with Flying Mirrors. , 2011, , . | | 0 |
| 202 | X-ray emission from relativistically moving electron density cusps. , 2012, , . | | 0 |
| 203 | High-order harmonics from bow wave caustics driven by a high-intensity laser. , 2012, , . | | 0 |
| 204 | Recent progress in particle acceleration from the interaction between thin-foil targets and J-KAREN laser pulses. , 2012, , . | | 0 |
| 205 | High-order harmonics from gas-target irradiated by relativistic-intensity laser. , 2013, , . | | 0 |
| 206 | Fine spectral structure of high order harmonics generated by multi-terawatt femtosecond lasers focused to gas jet targets. , 2013, , . | | 0 |
| 207 | Relativistic mirrors for photon-photon scattering. , 2013, , . | | 0 |
| 208 | The applicability range of different forms of the radiation friction force in the ultrarelativistic electron interaction with electromagnetic wave (exact solutions). Journal of Physics: Conference Series, 2013, 414, 012009. | 0.4 | 0 |
| 209 | Ion acceleration by the 10^{21} Wcm^{-2} intensity high contrast laser pulses interacting with the thin foil target. , 2014, , . | | 0 |
| 210 | Recent progress on an upgrade of the J-KAREN laser at JAEA. , 2015, , . | | 0 |
| 211 | Recent Advances on the J-KAREN laser upgrade. , 2015, , . | | 0 |
| 212 | Laser wakefield accelerated electron beam monitoring and control. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 213 | Strong field electrodynamics of a thin foil. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 214 | Research on Laser Acceleration and Coherent X-Ray Generation Using J-KAREN-P Laser. Springer Proceedings in Physics, 2018, , 135-142. | 0.2 | 0 |
| 215 | INTERACTION OF CHARGED PARTICLES WITH ULTRA STRONG ELECTROMAGNETIC WAVES IN THE RADIATION DOMINANT REGIME. , 2004, , . | | 0 |
| 216 | FLYING MIRRORS: RELATIVISTIC PLASMA WAKE CAUSTIC LIGHT INTENSIFICATION. , 2004, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 217 | Observation of Thin Foil Preformed Plasmas with a Relativistic-intensity Ultra-short Pulse Laser by Means of Two-color Interferometer. Springer Series in Optical Sciences, 2007, , 273-277. | 0.7 | 0 |
| 218 | Electron Acceleration Under Strong Radiation Damping. Springer Series in Optical Sciences, 2007, , 143-148. | 0.7 | 0 |
| 219 | Laser Driven Particle Accelerators and their Application to Science, Industry and Medicine. The Review of Laser Engineering, 2008, 36, 1123-1124. | 0.0 | 0 |
| 220 | Extreme Field Limits in the Ultra-Relativistic Interaction of Electromagnetic Waves with Plasmas. Springer Proceedings in Physics, 2011, , 151-181. | 0.2 | 0 |
| 221 | Generation of Coherent X-Ray Radiation with Relativistic Nonlinear Processes. Springer Proceedings in Physics, 2011, , 183-193. | 0.2 | 0 |
| 222 | Ion Acceleration in Subcritical Density Plasma via Interaction of Intense Laser Pulse with Cluster-Gas Target. Springer Series in Chemical Physics, 2011, , 225-240. | 0.2 | 0 |
| 223 | High-Order Harmonic Comb from Relativistic Electron Spikes. , 2013, , . | | 0 |
| 224 | Observation of Preformed Plasma Generated from a Thin-Foil Target for Laser-Driven Proton Acceleration. The Review of Laser Engineering, 2014, 42, 160. | 0.0 | 0 |
| 225 | Multiparametric PIC simulations of electron vortices in relativistic laser plasmas. , 2017, , . | | 0 |
| 226 | Relativistic Flying Mirrors as a Compact Source of Coherent Short-Wavelength Radiation. , 2020, , . | | 0 |