# Xian-Tu He

List of Publications by Year
in descending order

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Version: 2024-02-01

| 391 | 6,682 | 87723 | 128067 |
|---|---|---|---|
| papers | citations | 38 h-index | 60 g-index |

| 397 | 397 | 397 | 2969 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Stimulated Brillouin scattering enhanced by the stimulated Raman process near the quarter-critical density. Plasma Physics and Controlled Fusion, 2022, 64, 035002. | 0.9 | 1 |
| 2 | Recent progress in matter in extreme states created by laser. Matter and Radiation at Extremes, 2022, 7, . | 1.5 | 7 |
| 3 | Enhanced Proton Acceleration from Laser Interaction with a Tailored Nanowire Target. Applied Sciences (Switzerland), 2022, 12, 1153. | 1.3 | 4 |
| 4 | Polarization conversion in the caviton driven by linearly polarized lasers. Physical Review E, 2022, 105, L023202. | 0.8 | 0 |
| 5 | Divergence gating towards far-field isolated attosecond pulses. New Journal of Physics, 2022, 24, 033038. | 1.2 | 1 |
| 6 | Suprathermal electrons from the anti-Stokes Langmuir decay instability cascade. Physical Review E, 2022, 105, 045208. | 0.8 | 5 |
| 7 | Ab initio calculations on thermal conductivity of Fe-Ni-O fluid: Constraints on the thermal evolution of Earth's core. Earth and Planetary Science Letters, 2022, 589, 117581. | 1.8 | 0 |
| 8 | Vortex laser beam generation from laser interaction with azimuthal plasma phase slab at relativistic intensities. Physical Review E, 2021, 103, 023204. | 0.8 | 3 |
| 9 | Dynamics of particles near the surface of a medium under ultra-strong shocks. Matter and Radiation at Extremes, 2021, 6, . | 1.5 | 3 |
| 10 | Direct generation of relativistic isolated attosecond pulses in transmission from laser-driven plasmas. Optics Letters, 2021, 46, 1285. | 1.7 | 5 |
| 11 | Ion kinetic effects on the evolution of Richtmyerâ€“Meshkov instability and interfacial mix. New Journal of Physics, 2021, 23, 053010. | 1.2 | 2 |
| 12 | Constraints on the thermal evolution of Earth's core from ab initio calculated transport properties of FeNi liquids. Earth and Planetary Science Letters, 2021, 562, 116852. | 1.8 | 6 |
| 13 | First-principles calculations of K-shell x-ray absorption spectra for warm dense ammonia*. Chinese Physics B, 2021, 30, 057102. | 0.7 | 1 |
| 14 | Equations of state of poly- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -methylstyrene and polystyrene: First-principles calculations versus precision measurements. Physical Review B, 2021, 103, . | 1.1 | 8 |
| 15 | Enhanced proton acceleration using split intense femtosecond laser pulses. Plasma Physics and Controlled Fusion, 2021, 63, 085007. | 0.9 | 1 |
| 16 | Reconnection rate and multi-scale relativistic magnetic reconnection driven by ultra-intense lasers. Plasma Physics and Controlled Fusion, 2021, 63, 085012. | 0.9 | 2 |
| 17 | Enhanced Proton Acceleration by Laser-Driven Collisionless Shock in the Near-Critical Density Target Embedding with Solid Nanolayers. Laser and Particle Beams, 2021, 2021, . | 0.4 | 2 |
| 18 | A pairwise nuclear fusion algorithm for particle-in-cell simulations: Weighted particles at relativistic energies. AIP Advances, 2021, 11, . | 0.6 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Obtaining Intense Attosecond Pulses in the Far Field from Relativistic Laser-Plasma Interactions. Physical Review Applied, 2021, 16, . | 1.5 | 2 |
| 20 | Scaling laws for laser-driven ion acceleration from nanometer-scale ultrathin foils. Physical Review E, 2021, 104, 025210. | 0.8 | 9 |
| 21 | Onset of inverse magnetic energy transfer in collisionless turbulent plasmas. Physical Review E, 2021, 104, 025204. | 0.8 | 0 |
| 22 | Test for descriptions of relativistic spin dynamics by using ultraintense lasers. Physical Review A, 2021, 104, . | 1.0 | 0 |
| 23 | Emissions of brilliant attosecond pulse in circular polarization by using inclined lasers. Physics of Plasmas, 2021, 28, 093105. | 0.7 | 2 |
| 24 | Reducing reflectivity of stimulated Raman scattering by discretely changing phase of incident light in inertial fusion plasmas. Physica Scripta, 2021, 96, 125634. | 1.2 | 3 |
| 25 | Absolute stimulated Brillouin side scattering in an inhomogeneous flowing plasma. Physical Review E, 2021, 104, 065203. | 0.8 | 5 |
| 26 | Identify spin property of relativistic electrons in fully relativistic laser fields. New Journal of Physics, 2021, 23, 123043. | 1.2 | 0 |
| 27 | Nonlinear ablative Rayleighâ€“Taylor growth experiments on Shenguangâ€“II. Physics of Plasmas, 2020, 27, . | 0.7 | 8 |
| 28 | Growth and saturation of stimulated Raman scattering in two overlapping laser beams. Physical Review E, 2020, 102, 013205. | 0.8 | 7 |
| 29 | Interface Width Effect on the Weakly Nonlinear Rayleighâ€“Taylor Instability in Spherical Geometry. Chinese Physics Letters, 2020, 37, 075201. | 1.3 | 0 |
| 30 | Dynamics of bond breaking and formation in polyethylene near shock front. Physical Review E, 2020, 102, 023207. | 0.8 | 1 |
| 31 | Proton beams from intense laser-solid interaction: Effects of the target materials. Matter and Radiation at Extremes, 2020, 5, . | 1.5 | 12 |
| 32 | Particle-in-cell simulation method for macroscopic degenerate plasmas. Physical Review E, 2020, 102, 033312. | 0.8 | 12 |
| 33 | Enhancement of brightness of high-order harmonics with elliptical polarization from near-critical density plasmas irradiated by an ultraintense laser pulse. Physics of Plasmas, 2020, 27, 083101. | 0.7 | 0 |
| 34 | Second-shocked Hugoniot state of warm dense 6LiD: Quantum molecular dynamics simulations. Physics of Plasmas, 2020, 27, 082705. | 0.7 | 1 |
| 35 | First-principles method for x-ray Thomson scattering including both elastic and inelastic features in warm dense matter. Physical Review B, 2020, 102, . | 1.1 | 6 |
| 36 | Intense circularly polarized attosecond pulse generation from solid targets irradiated with a two-color linearly polarized laser. Physical Review A, 2020, 101, . | 1.0 | 8 |

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|---|---|---|---|
| 37 | Uniform warm dense matter formed by direct laser heating in the presence of external magnetic fields. Physical Review E, 2020, 101, 051202. | 0.8 | 2 |
| 38 | Saturation of stimulated Raman backscattering due to beam plasma instability induced by trapped electrons. Plasma Physics and Controlled Fusion, 2020, 62, 075009. | 0.9 | 3 |
| 39 | Stopping power of hot dense deuterium-tritium plasmas mixed with impurities to charged particles. Physical Review E, 2020, 101, 053209. | 0.8 | 5 |
| 40 | Simulation of the Weakly Nonlinear Rayleigh-Taylor Instability in Spherical Geometry*. Chinese Physics Letters, 2020, 37, 055201. | 1.3 | 0 |
| 41 | Suppression of auto-resonant stimulated Brillouin scattering in supersonic flowing plasmas by different forms of incident lasers*. Chinese Physics B, 2020, 29, 095202. | 0.7 | 3 |
| 42 | Possible signals in differentiating the quantum radiation reaction from the classical one. Physical Review A, 2020, 101, . | 1.0 | 1 |
| 43 | Giant Isolated Attosecond Pulses from Two-Color Laser-Plasma Interactions. Physical Review Letters, 2020, 124, 114802. | 2.9 | 18 |
| 44 | Stimulated Brillouin scattering of backward stimulated Raman scattering. Scientific Reports, 2020, 10, 3492. | 1.6 | 16 |
| 45 | Coupling effects and thin-shell corrections for surface instabilities of cylindrical fluid shells. Physical Review E, 2020, 101, 023108. | 0.8 | 3 |
| 46 | Interaction features of two ultra-intense laser pulses self-trapped in underdense plasmas. AIP Advances, 2020, 10, 025313. | 0.6 | 3 |
| 47 | Manipulating laser-driven proton acceleration with tailored target density profile. Plasma Physics and Controlled Fusion, 2020, 62, 085008. | 0.9 | 4 |
| 48 | Growth rate and gain of stimulated Brillouin scattering considering nonlinear Landau damping due to particle trapping. Plasma Physics and Controlled Fusion, 2020, 62, 045013. | 0.9 | 4 |
| 49 | Suppression of stimulated Brillouin scattering by two perpendicular linear polarization lasers. AIP Advances, 2020, 10, 025123. | 0.6 | 2 |
| 50 | The three-dimensional weakly nonlinear Rayleighâ€“Taylor instability in spherical geometry. Physics of Plasmas, 2020, 27, 022707. | 0.7 | 3 |
| 51 | Enhanced energy coupling for indirect-drive fast-ignition fusion targets. Nature Physics, 2020, 16, 810-814. | 6.5 | 33 |
| 52 | The experimental investigation of the hohlraum energetics of two-entrance holes spherical hohlraum at the 100 kJ level laser facility. Physics of Plasmas, 2020, 27, 032702. | 0.7 | 1 |
| 53 | Improvement of laser absorption and control of particle acceleration by subwavelength nanowire target. Physics of Plasmas, 2020, 27, . | 0.7 | 6 |
| 54 | The effects of plasma density-gradient on laser-driven transmitted emission. Plasma Physics and Controlled Fusion, 2020, 62, 115003. | 0.9 | 1 |

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|---|---|---|---|
| 55 | Generation of relativistic vortex laser beams by spiral shaped plasma. Physical Review Research, 2020, 2, . | 1.3 | 5 |
| 56 | Production of 100-TW single attosecond x-ray pulse. Optica, 2020, 7, 355. | 4.8 | 13 |
| 57 | Advancing the study of hybrid-drive inertial fusion ignition and high energy density physics - Teller medal lecture at IFSA2019. High Energy Density Physics, 2020, 36, 100804. | 0.4 | 3 |
| 58 | Anomalous mix induced by a collisionless shock wave in an inertial confinement fusion hohlraum. Nuclear Fusion, 2019, 59, 106016. | 1.6 | 5 |
| 59 | High-order implicit particle-in-cell method for plasma simulations at solid densities. Physical Review E, 2019, 100, 013207. | 0.8 | 19 |
| 60 | Particle-in-cell simulation of transport and energy deposition of intense proton beams in solid-state materials. Physical Review E, 2019, 100, 013208. | 0.8 | 12 |
| 61 | All-optical cascaded ion acceleration in segmented tubes driven by multiple independent laser pulses. Plasma Physics and Controlled Fusion, 2019, 61, 115005. | 0.9 | 4 |
| 62 | Burst behavior due to the quasimode excited by stimulated Brillouin scattering in high-intensity laserâ€“plasma interactions. High Power Laser Science and Engineering, 2019, 7, . | 2.0 | 4 |
| 63 | Enhancement of the surface emission at the fundamental frequency and the transmitted high-order harmonics by pre-structured targets. High Power Laser Science and Engineering, 2019, 7, . | 2.0 | 6 |
| 64 | Stimulated Raman scattering instability of a left-handed circularly polarized laser in strongly axially magnetized plasmas. Physics of Plasmas, 2019, 26, . | 0.7 | 2 |
| 65 | Formation of relativistic electromagnetic solitons in over-dense plasmas. Physics of Plasmas, 2019, 26, 063107. | 0.7 | 6 |
| 66 | Auto-resonant stimulated Brillouin backscattering in supersonic flowing plasmas by fully kinetic Vlasov simulations. Plasma Physics and Controlled Fusion, 2019, 61, 085017. | 0.9 | 6 |
| 67 | Linear theory of multibeam parametric instabilities in homogeneous plasmas. Physics of Plasmas, 2019, 26, . | 0.7 | 16 |
| 68 | Stimulated Brillouin scattering behaviors in multi-ion species plasmas in high-temperature and high-density region. Physics of Plasmas, 2019, 26, . | 0.7 | 10 |
| 69 | All-optical generation of petawatt gamma radiation via inverse Compton scattering from laser interaction with tube target. Plasma Physics and Controlled Fusion, 2019, 61, 085002. | 0.9 | 5 |
| 70 | Transport of moderately relativistic electron beam in dense plasma. Plasma Physics and Controlled Fusion, 2019, 61, 085009. | 0.9 | 0 |
| 71 | Kinetic Particle-in-cell Simulations of the Transport of Astrophysical Relativistic Jets in Magnetized Intergalactic Medium. Astrophysical Journal, 2019, 876, 2. | 1.6 | 5 |
| 72 | Trapping laser pulse between two foils and periodic generation of energetic electron beam. Physics of Plasmas, 2019, 26, 014502. | 0.7 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | High-flux high-energy ion beam production from stable collisionless shock acceleration by intense petawatt-picosecond laser pulses. New Journal of Physics, 2019, 21, 033035. | 1.2 | 5 |
| 74 | Electrostatic capacitance-type acceleration of ions with an intense few-cycle laser pulse. Applied Physics Letters, 2019, 114, . | 1.5 | 14 |
| 75 | Two-dimensional thin shell model for the nonlinear Rayleigh-Taylor instability in spherical geometry. Physics of Plasmas, 2019, 26, . | 0.7 | 5 |
| 76 | Improvement of proton acceleration via collisionless shock acceleration by laser-foil interaction with an external magnetic field. Physics of Plasmas, 2019, 26, . | 0.7 | 3 |
| 77 | Revisit on ion acceleration mechanisms in solid targets driven by intense laser pulses. Plasma Physics and Controlled Fusion, 2019, 61, 014039. | 0.9 | 22 |
| 78 | Laser Acceleration of Highly Energetic Carbon Ions Using a Double-Layer Target Composed of Slightly Underdense Plasma and Ultrathin Foil. Physical Review Letters, 2019, 122, 014803. | 2.9 | 84 |
| 79 | Experimental demonstration of a laser proton accelerator with accurate beam control through image-relaying transport. Physical Review Accelerators and Beams, 2019, 22, . | 0.6 | 32 |
| 80 | Intense single attosecond pulse generation from near-critical-density plasmas irradiated by a few-cycle laser pulse. Physics of Plasmas, 2018, 25, . | 0.7 | 5 |
| 81 | Weakly nonlinear incompressible Rayleigh-Taylor instability in spherical and planar geometries. Physics of Plasmas, 2018, 25, 022701. | 0.7 | 6 |
| 82 | Brilliant GeV gamma-ray flash from inverse Compton scattering in the QED regime. Plasma Physics and Controlled Fusion, 2018, 60, 044004. | 0.9 | 28 |
| 83 | On the stimulated Raman sidescattering in inhomogeneous plasmas: revisit of linear theory and three-dimensional particle-in-cell simulations. Plasma Physics and Controlled Fusion, 2018, 60, 025020. | 0.9 | 24 |
| 84 | Controlling of the electromagnetic solitary waves generation in the wake of a two-color laser. Physics of Plasmas, 2018, 25, . | 0.7 | 1 |
| 85 | The interplay between the kinetic nonlinear frequency shift and the flowing gradient in stimulated Brillouin scattering. Plasma Physics and Controlled Fusion, 2018, 60, 025016. | 0.9 | 4 |
| 86 | Multidimensional effects on proton acceleration using high-power intense laser pulses. Physics of Plasmas, 2018, 25, . | 0.7 | 20 |
| 87 | Coherent synchrotron emission in transmission with double foil target. Plasma Physics and Controlled Fusion, 2018, 60, 045005. | 0.9 | 5 |
| 88 | Identifying the quantum radiation reaction by using colliding ultraintense lasers in gases. Physical Review A, 2018, 98, . | 1.0 | 5 |
| 89 | Proton acceleration from laser interaction with a complex double-layer plasma target. Physics of Plasmas, 2018, 25, 123107. | 0.7 | 9 |
| 90 | Particle-in-cell simulations of laserâ€“plasma interactions at solid densities and relativistic intensities: the role of atomic processes. High Power Laser Science and Engineering, 2018, 6, . | 2.0 | 24 |

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|---|---|---|---|
| 91 | Nonlinear transition from convective to absolute Raman instability with trapped electrons and inflationary growth of reflectivity. Physics of Plasmas, 2018, 25, . | 0.7 | 15 |
| 92 | Coupling between a laser and a prestructured target with an arbitrary structure period. Physical Review E, 2018, 98, . | 0.8 | 3 |
| 93 | The baryon loading effect on relativistic astrophysical jet transport in the interstellar medium. New Journal of Physics, 2018, 20, 053060. | 1.2 | 2 |
| 94 | Anti-Langmuir decay instability in Langmuir decay instability cascade. Physics of Plasmas, 2018, 25, 092112. | 0.7 | 9 |
| 95 | Effects of viscosity and elasticity on the Richtmyer-Meshkov instability. Physical Review E, 2018, 98, . | 0.8 | 7 |
| 96 | Thin shell model for the nonlinear fluid instability of cylindrical shells. Physics of Plasmas, 2018, 25, 092703. | 0.7 | 4 |
| 97 | Efficient production of strong magnetic fields from ultraintense ultrashort laser pulse with capacitor-coil target. Physics of Plasmas, 2018, 25, 083111. | 0.7 | 15 |
| 98 | Transition from convective to absolute Raman instability via the longitudinal relativistic effect by using Vlasov-Maxwell simulations. Physics of Plasmas, 2018, 25, . | 0.7 | 13 |
| 99 | First-Principles Estimation of Electronic Temperature from X-Ray Thomson Scattering Spectrum of Isochorically Heated Warm Dense Matter. Physical Review Letters, 2018, 120, 205002. | 2.9 | 20 |
| 100 | Unified decomposition method to study Rayleigh-Taylor instability in liquids and solids. Physical Review E, 2018, 97, 063109. | 0.8 | 15 |
| 101 | Resonance-like enhancement in high-order above threshold ionization of atoms and molecules in intense laser fields. Optics Express, 2018, 26, 13012. | 1.7 | 3 |
| 102 | Experimental Evidence of Kinetic Effects in Indirect-Drive Inertial Confinement Fusion Hohlraums. Physical Review Letters, 2018, 120, 195001. | 2.9 | 31 |
| 103 | A Review of Equation-of-State Models for Inertial Confinement Fusion Materials. High Energy Density Physics, 2018, 28, 7-24. | 0.4 | 54 |
| 104 | Weakly nonlinear multi-mode Rayleigh-Taylor instability in two-dimensional spherical geometry. Physics of Plasmas, 2018, 25, 082713. | 0.7 | 10 |
| 105 | Electron shock-surfing acceleration in the presence of magnetic field. Physics of Plasmas, 2018, 25, . | 0.7 | 4 |
| 106 | High-efficiency<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math>-ray flash generation via multiple-laser scattering in ponderomotive potential well. Physical Review E, 2017, 95, 013210. | 0.8 | 32 |
| 107 | Molecular dynamics simulation of strong shock waves propagating in dense deuterium, taking into consideration effects of excited electrons. Physical Review E, 2017, 95, 023201. | 0.8 | 29 |
| 108 | Monte Carlo approach to calculate ionization dynamics of hot solid-density plasmas within particle-in-cell simulations. Physical Review E, 2017, 95, 023208. | 0.8 | 23 |

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|---|---|---|---|
| 109 | Theoretical and simulation research of hydrodynamic instabilities in inertial-confinement fusion implosions. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1. | 2.0 | 49 |
| 110 | Nonlinear parametric resonance of relativistic electrons with a linearly polarized laser pulse in a plasma channel. Physics of Plasmas, 2017, 24, . | 0.7 | 18 |
| 111 | Efficient shock drift acceleration in the collision of two asymmetric pair plasma shells. Physics of Plasmas, 2017, 24, . | 0.7 | 5 |
| 112 | Magnetic reconnection in the high-energy density regime. Plasma Physics and Controlled Fusion, 2017, 59, 064002. | 0.9 | 3 |
| 113 | The controllable electron-heating by external magnetic fields at relativistic laser-solid interactions in the presence of large scale pre-plasmas. Plasma Physics and Controlled Fusion, 2017, 59, 065004. | 0.9 | 11 |
| 114 | Ultraintense laser absorption and Î³-ray synchrotron radiation in near critical density plasmas. Physics of Plasmas, 2017, 24, 043111. | 0.7 | 11 |
| 115 | Weakly nonlinear incompressible Rayleigh-Taylor instability in spherical geometry. Physics of Plasmas, 2017, 24, 062703. | 0.7 | 15 |
| 116 | Enhancement of proton acceleration by a right-handed circularly polarized laser interaction with a cone target exposed to a longitudinal magnetic field. Physics of Plasmas, 2017, 24, . | 0.7 | 4 |
| 117 | Enhancing the electron acceleration by a circularly polarized laser interaction with a cone-target with an external longitudinal magnetic field. Physics of Plasmas, 2017, 24, 033103. | 0.7 | 11 |
| 118 | First experimental comparisons of laser-plasma interactions between spherical and cylindrical hohlraums at SGIII laser facility. Matter and Radiation at Extremes, 2017, 2, 77-86. | 1.5 | 18 |
| 119 | Monte Carlo approach to calculate proton stopping in warm dense matter within particle-in-cell simulations. Physical Review E, 2017, 95, 023207. | 0.8 | 30 |
| 120 | Brilliant petawatt gamma-ray pulse generation in quantum electrodynamic laser-plasma interaction. Scientific Reports, 2017, 7, 45031. | 1.6 | 40 |
| 121 | Experimental demonstration of low laser-plasma instabilities in gas-filled spherical hohlraums at laser injection angle designed for ignition target. Physical Review E, 2017, 95, 031202. | 0.8 | 28 |
| 122 | Magnetic X points disturbed by the in-plane electric fields. Physics of Plasmas, 2017, 24, . | 0.7 | 2 |
| 123 | Maintaining stable radiation pressure acceleration of ion beams via cascaded electron replenishment. New Journal of Physics, 2017, 19, 033034. | 1.2 | 11 |
| 124 | Monoenergetic ion beam acceleration from transversely confined near-critical plasmas by intense laser pulses. Physics of Plasmas, 2017, 24, . | 0.7 | 4 |
| 125 | Relay transport of relativistic flows in extreme magnetic fields of stars. Physics of Plasmas, 2017, 24, . | 0.7 | 2 |
| 126 | Energy shift between two relativistic laser pulses copropagating in plasmas. Physical Review A, 2017, 95, . | 1.0 | 2 |

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|---|---|---|---|
| 127 | Comparison of the laser spot movement inside cylindrical and spherical hohlraums. Physics of Plasmas, 2017, 24, 072711. | 0.7 | 9 |
| 128 | Collimated gamma photon emission driven by PW laser pulse in a plasma density channel. Applied Physics Letters, 2017, 110, . | 1.5 | 21 |
| 129 | Gamma-ray generation from laser-driven electron resonant acceleration: In the non-QED and the QED regimes. Physics of Plasmas, 2017, 24, 123101. | 0.7 | 6 |
| 130 | Harmonic effects on ion-bulk waves and simulation of stimulated ion-bulk-wave scattering in CH plasmas. Plasma Physics and Controlled Fusion, 2017, 59, 085007. | 0.9 | 4 |
| 131 | Achieving Stable Radiation Pressure Acceleration of Heavy Ions via Successive Electron Replenishment from Ionization of a High- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Z</mml:mi></mml:mrow></mml:math> Material Coating. Physical Review Letters, 2017, 118, 204802. | 2.9 | 37 |
| 132 | Relativistic laser hosing instability suppression and electron acceleration in a preformed plasma channel. Physical Review E, 2017, 95, 043207. | 0.8 | 15 |
| 133 | Neutron Generation by Laser-Driven Spherically Convergent Plasma Fusion. Physical Review Letters, 2017, 118, 165001. | 2.9 | 23 |
| 134 | Transition of backward stimulated Raman scattering from absolute to convective instability via density modulation. Physics of Plasmas, 2017, 24, . | 0.7 | 9 |
| 135 | Excitation of monochromatic and stable electron acoustic wave by two counter-propagating laser beams. New Journal of Physics, 2017, 19, 073038. | 1.2 | 1 |
| 136 | Nonlinear saturation of Rayleigh-Taylor instability in a finite-thickness fluid layer. Physics of Plasmas, 2017, 24, 112708. | 0.7 | 4 |
| 137 | Potential terahertz radiation by mode conversion from two-color laser to surface plasma waves. AIP Advances, 2017, 7, . | 0.6 | 1 |
| 138 | Attosecond light pulses generation along the target surface driven by obliquely-incident lasers. Physics of Plasmas, 2017, 24, . | 0.7 | 4 |
| 139 | Intense attosecond pulses from laser-irradiated near-critical-density plasmas. Optics Express, 2017, 25, 29058. | 1.7 | 8 |
| 140 | Anti-Stokes scattering and Stokes scattering of stimulated Brillouin scattering cascade in high-intensity laserâ€“plasma interaction. Plasma Physics and Controlled Fusion, 2017, 59, 075007. | 0.9 | 6 |
| 141 | Study on the transport of a relativistic electron beam in plasmas. Journal of Physics: Conference Series, 2016, 688, 012007. | 0.3 | 0 |
| 142 | Enhanced betatron radiation in strongly magnetized plasma. Physics of Plasmas, 2016, 23, 043115. | 0.7 | 2 |
| 143 | First-Principles Investigation to Ionization of Argon Under Conditions Close to Typical Sonoluminescence Experiments. Scientific Reports, 2016, 6, 20623. | 1.6 | 8 |
| 144 | A hybrid-drive nonisobaric-ignition scheme for inertial confinement fusion. Physics of Plasmas, 2016, 23, . | 0.7 | 97 |

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|---|---|---|---|
| 145 | Generation of quasi-monoenergetic heavy ion beams via staged shock wave acceleration driven by intense laser pulses in near-critical plasmas. New Journal of Physics, 2016, 18, 093029. | 1.2 | 9 |
| 146 | Surface plasma waves with their harmonics generation from pre-structured targets. Physics of Plasmas, 2016, 23, 023109. | 0.7 | 7 |
| 147 | Ignition conditions relaxation for central hot-spot ignition with an ion-electron non-equilibrium model. Physics of Plasmas, 2016, 23, . | 0.7 | 10 |
| 148 | Extended application of Kohn-Sham first-principles molecular dynamics method with plane wave approximation at high energyâ€"From cold materials to hot dense plasmas. Physics of Plasmas, 2016, 23, . | 0.7 | 54 |
| 149 | Main drive optimization of a high-foot pulse shape in inertial confinement fusion implosions. Physics of Plasmas, 2016, 23, . | 0.7 | 15 |
| 150 | Stably propagating trains of attosecond electron bunches generated along the target back. Physics of Plasmas, 2016, 23, 093101. | 0.7 | 0 |
| 151 | Radiation reaction induced spiral attractors in ultra-intense colliding laser beams. Matter and Radiation at Extremes, 2016, 1, 308-315. | 1.5 | 15 |
| 152 | Quasi-monoenergetic ion beam acceleration by laser-driven shock and solitary waves in near-critical plasmas. Physics of Plasmas, 2016, 23, 073118. | 0.7 | 28 |
| 153 | Excitation of nonlinear ion acoustic waves in CH plasmas. Physics of Plasmas, 2016, 23, 082106. | 0.7 | 20 |
| 154 | Enhanced target normal sheath acceleration of protons from intense laser interaction with a cone-tube target. AIP Advances, 2016, 6, . | 0.6 | 22 |
| 155 | A scheme for reducing deceleration-phase Rayleighâ€"Taylor growth in inertial confinement fusion implosions. Physics of Plasmas, 2016, 23, . | 0.7 | 28 |
| 156 | Intermittency caused by compressibility: aÂLagrangian study. Journal of Fluid Mechanics, 2016, 786, . | 1.4 | 10 |
| 157 | RELATIVISTIC ELECTRONS PRODUCED BY RECONNECTING ELECTRIC FIELDS IN A LASER-DRIVEN BENCH-TOP SOLAR FLARE. Astrophysical Journal, Supplement Series, 2016, 225, 30. | 3.0 | 29 |
| 158 | The updated advancements of inertial confinement fusion program in China. Journal of Physics: Conference Series, 2016, 688, 012029. | 0.3 | 7 |
| 159 | Molecular dynamics simulations of microscopic structure of ultra strong shock waves in dense helium. Frontiers of Physics, 2016, 11, 1. | 2.4 | 28 |
| 160 | Fluid nonlinear frequency shift of nonlinear ion acoustic waves in multi-ion species plasmas in the small wave number region. Physical Review E, 2016, 94, 023205. | 0.8 | 15 |
| 161 | Link between<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>K</mml:mi></mml:math>absorption edges and thermodynamic properties of warm dense plasmas established by an improved first-principles method. Physical Review B, 2016, 93, . | 1.1 | 28 |
| 162 | Characterization of magnetic reconnection in the high-energy-density regime. Physical Review E, 2016, 93, 033206. | 0.8 | 10 |

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|---|---|---|---|
| 163 | Energetic electron-bunch generation in a phase-locked longitudinal laser electric field. Physical Review E, 2016, 93, 043207. | 0.8 | 20 |
| 164 | Characteristics of betatron radiation from direct-laser-accelerated electrons. Physical Review E, 2016, 93, 063203. | 0.8 | 53 |
| 165 | First Investigation on the Radiation Field of the Spherical Hohlraum. Physical Review Letters, 2016, 117, 025002. | 2.9 | 35 |
| 166 | Reconstruction of Ge spatial distribution in ICF target using PIXE-T. Fusion Engineering and Design, 2016, 113, 43-50. | 1.0 | 8 |
| 167 | Validity boundary of orbital-free molecular dynamics method corresponding to thermal ionization of shell structure. Physical Review B, 2016, 94, . | 1.1 | 20 |
| 168 | Attenuation of electromagnetic waves by plasma-covered cavity. , 2016, , . | | 0 |
| 169 | Long-Range Coulomb Effect in Intense Laser-Driven Photoelectron Dynamics. Scientific Reports, 2016, 6, 27108. | 1.6 | 16 |
| 170 | Competition between stimulated Raman scattering and two-plasmon decay in inhomogeneous plasma. Physics of Plasmas, 2016, 23, . | 0.7 | 26 |
| 171 | First demonstration of improving laser propagation inside the spherical hohlraums by using the cylindrical laser entrance hole. Matter and Radiation at Extremes, 2016, 1, 2-7. | 1.5 | 39 |
| 172 | Progress in octahedral spherical hohlraum study. Matter and Radiation at Extremes, 2016, 1, 8-27. | 1.5 | 106 |
| 173 | Near-diffraction-limited laser focusing with a near-critical density plasma lens. Optics Letters, 2016, 41, 139. | 1.7 | 14 |
| 174 | Ion wave breaking acceleration. Physical Review Accelerators and Beams, 2016, 19, . | 0.6 | 12 |
| 175 | Collimated proton beams by ultra-short, ultra-intense laser pulse interaction with a foilâ€“ramparts target. Laser and Particle Beams, 2015, 33, 765-771. | 0.4 | 0 |
| 176 | Self-shaping of a relativistic elliptically Gaussian laser beam in underdense plasmas. Laser and Particle Beams, 2015, 33, 347-353. | 0.4 | 12 |
| 177 | Mitigating the relativistic laser beam filamentation via an elliptical beam profile. Physical Review E, 2015, 92, 053106. | 0.8 | 23 |
| 178 | Generation of overdense and high-energy electron-positron-pair plasmas by irradiation of a thin foil with two ultraintense lasers. Physical Review E, 2015, 92, 053107. | 0.8 | 35 |
| 179 | Dense Helical Electron Bunch Generation in Near-Critical Density Plasmas with Ultrarelativistic Laser Intensities. Scientific Reports, 2015, 5, 15499. | 1.6 | 34 |
| 180 | First-principles calculation of principal Hugoniot and K-shell X-ray absorption spectra for warm dense KCl. Physics of Plasmas, 2015, 22, 062707. | 0.7 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | The radiation reaction effects in the ultra-intense and ultra-short laser foil interaction regime. Physics of Plasmas, 2015, 22, . | 0.7 | 18 |
| 182 | Quasimonoenergetic electron beam and brilliant gamma-ray radiation generated from near critical density plasma due to relativistic resonant phase locking. Physics of Plasmas, 2015, 22, . | 0.7 | 27 |
| 183 | Study of strong enhancement of synchrotron radiation via surface plasma waves excitation by particle-in-cell simulations. Applied Physics Letters, 2015, 107, . | 1.5 | 10 |
| 184 | Laser imprint reduction for the critical-density foam buffered target driven by a relatively strong foot pulse at early stage of laser implosions. Physics of Plasmas, 2015, 22, 122707. | 0.7 | 0 |
| 185 | A spherical shell target scheme for laser-driven neutron sources. Physics of Plasmas, 2015, 22, . | 0.7 | 6 |
| 186 | Guiding and collimation of laser-accelerated proton beams using thin foils followed with a hollow plasma channel. Physics of Plasmas, 2015, 22, . | 0.7 | 15 |
| 187 | MODELING SUPERSONIC-JET DEFLECTION IN THE HERBIGâ€“HARO 110-270 SYSTEM WITH HIGH-POWER LASERS. Astrophysical Journal, 2015, 815, 46. | 1.6 | 11 |
| 188 | Physical studies of fast ignition in China. Plasma Physics and Controlled Fusion, 2015, 57, 064003. | 0.9 | 10 |
| 189 | Self-generated magnetic dipoles in weakly magnetized beam-plasma system. Physical Review E, 2015, 91, 023107. | 0.8 | 7 |
| 190 | Nonlinear evolution of stimulated Raman scattering near the quarter-critical density. Physics of Plasmas, 2015, 22, 052121. | 0.7 | 20 |
| 191 | Applications of deuterium-tritium equation of state based on density functional theory in inertial confinement fusion. Physics of Plasmas, 2015, 22, 062708. | 0.7 | 0 |
| 192 | Tunable hard x-ray source from obliquely incident intense laser interacting with overdense solid targets. Physics of Plasmas, 2015, 22, 083301. | 0.7 | 7 |
| 193 | Ion acceleration enhanced by target ablation. Physics of Plasmas, 2015, 22, . | 0.7 | 14 |
| 194 | Weakly nonlinear Bell-Plesset effects for a uniformly converging cylinder. Physics of Plasmas, 2015, 22, . | 0.7 | 37 |
| 195 | Weakly nonlinear Rayleigh-Taylor instability of a finite-thickness fluid layer. Physics of Plasmas, 2014, 21, . | 0.7 | 32 |
| 196 | Indirect-drive ablative Rayleigh-Taylor growth experiments on the Shenguang-II laser facility. Physics of Plasmas, 2014, 21, 042707. | 0.7 | 10 |
| 197 | Effect of inner-surface roughness of conical target on laser absorption and fast electron generation. Chinese Physics B, 2014, 23, 055202. | 0.7 | 3 |
| 198 | A wedged-peak-pulse design with medium fuel adiabat for indirect-drive fusion. Physics of Plasmas, 2014, 21, . | 0.7 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Interactions between inertial particles and shocklets in compressible turbulent flow. Physics of Fluids, 2014, 26, . | 1.6 | 21 |
| 200 | Generation of high-energy mono-energetic heavy ion beams by radiation pressure acceleration of ultra-intense laser pulses. Physics of Plasmas, 2014, 21, . | 0.7 | 26 |
| 201 | High flux symmetry of the spherical hohlraum with octahedral 6LEHs at the hohlraum-to-capsule radius ratio of 5.14. Physics of Plasmas, 2014, 21, 010704. | 0.7 | 67 |
| 202 | Octahedral spherical hohlraum and its laser arrangement for inertial fusion. Physics of Plasmas, 2014, 21, . | 0.7 | 56 |
| 203 | Review of the current status of fast ignition research at the IAPCM. High Power Laser Science and Engineering, 2014, 2, . | 2.0 | 9 |
| 204 | Research on ponderomotive driven Vlasovâ€“Poisson system in electron acoustic wave parametric region. Physics of Plasmas, 2014, 21, 032107. | 0.7 | 7 |
| 205 | Design of an Indirect-Drive Pulse Shape for âˆ¼1.6 MJ Inertial Confinement Fusion Ignition Capsules. Chinese Physics Letters, 2014, 31, 045201. | 1.3 | 4 |
| 206 | Laser-driven three-stage heavy-ion acceleration from relativistic laser-plasma interaction. Physical Review E, 2014, 89, 013107. | 0.8 | 14 |
| 207 | Suppression of transverse ablative Rayleigh-Taylor-like instability in the hole-boring radiation pressure acceleration by using elliptically polarized laser pulses. Physical Review E, 2014, 90, 023101. | 0.8 | 30 |
| 208 | Relativistic Vlasov code development for high energy density plasmas. European Physical Journal D, 2014, 68, 1. | 0.6 | 3 |
| 209 | Three-dimensional fast magnetic reconnection driven by relativistic ultraintense femtosecond lasers. Physical Review E, 2014, 89, 031101. | 0.8 | 26 |
| 210 | Instability-free ion acceleration by two laser pulses. European Physical Journal: Special Topics, 2014, 223, 1031-1035. | 1.2 | 5 |
| 211 | Hydrodynamic instabilities of laser indirect-drive inertial-confinement-fusion implosion. Scientia Sinica: Physica, Mechanica Et Astronomica, 2014, 44, 1-23. | 0.2 | 6 |
| 212 | Pattern dynamics and filamentation of relativistic laser pulses propagating in underdense plasmas. Scientia Sinica: Physica, Mechanica Et Astronomica, 2014, 44, 1344-1355. | 0.2 | 0 |
| 213 | Transport properties of dense deuterium-tritium plasmas. Physical Review E, 2013, 88, 013106. | 0.8 | 14 |
| 214 | Preheat of radiative shock in double-shell ignition targets. Physics of Plasmas, 2013, 20, . | 0.7 | 5 |
| 215 | Dynamics of ultra-intense circularly polarized solitons under inhomogeneous plasmas. Physics of Plasmas, 2013, 20, 063106. | 0.7 | 1 |
| 216 | Laser-driven collimated tens-GeV monoenergetic protons from mass-limited target plus preformed channel. Physics of Plasmas, 2013, 20, 013107. | 0.7 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Recent progress of laser driven particle acceleration at Peking University. Frontiers of Physics, 2013, 8, 577-584. | 2.4 | 8 |
| 218 | Study on longitudinal dispersion relation in one-dimensional relativistic plasma: Linear theory and Vlasov simulation. Physics of Plasmas, 2013, 20, 092112. | 0.7 | 6 |
| 219 | Effects of higher-order Kerr nonlinearity and plasma diffraction on multiple filamentation of ultrashort laser pulses in air. Physics of Plasmas, 2013, 20, 072111. | 0.7 | 3 |
| 220 | Statistics and structures of pressure and density in compressible isotropic turbulence. Journal of Turbulence, 2013, 14, 21-37. | 0.5 | 16 |
| 221 | Efficient and stable proton acceleration by irradiating a two-layer target with a linearly polarized laser pulse. Physics of Plasmas, 2013, 20, . | 0.7 | 35 |
| 222 | Suppressing longitudinal double-layer oscillations by using elliptically polarized laser pulses in the hole-boring radiation pressure acceleration regime. Physics of Plasmas, 2013, 20, . | 0.7 | 17 |
| 223 | Breather-like penetration of ultrashort linearly polarized laser into over-dense plasmas. Physics of Plasmas, 2013, 20, . | 0.7 | 12 |
| 224 | Effects of the background plasma temperature on the current filamentation instability. Physics of Plasmas, 2013, 20, 032113. | 0.7 | 10 |
| 225 | Weakly nonlinear incompressible Rayleigh-Taylor instability growth at cylindrically convergent interfaces. Physics of Plasmas, 2013, 20, 042708. | 0.7 | 32 |
| 226 | Equations of state and transport properties of warm dense beryllium: A quantum molecular dynamics study. Physical Review E, 2013, 87, 043105. | 0.8 | 18 |
| 227 | Ultrahigh Acceleration of Plasma Blocks by Nonlinear Forces for Side-On Laser Ignition of Solid Density Fusion Fuel. Plasma Science and Technology, 2013, 15, 420-424. | 0.7 | 2 |
| 228 | Acceleration of Passive Tracers in Compressible Turbulent Flow. Physical Review Letters, 2013, 110, 064503. | 2.9 | 18 |
| 229 | Pattern dynamics and filamentation of femtosecond terawatt laser pulses in air including the higher-order Kerr effects. Physical Review E, 2013, 87, 053103. | 0.8 | 6 |
| 230 | Temporal evolution of bubble tip velocity in classical Rayleigh-Taylor instability at arbitrary Atwood numbers. Physics of Plasmas, 2013, 20, . | 0.7 | 9 |
| 231 | Effects of the imposed magnetic field on the production and transport of relativistic electron beams. Physics of Plasmas, 2013, 20, 072701. | 0.7 | 34 |
| 232 | Preplasma effects on the generation of high-energy protons in ultraintense laser interaction with foil targets. Physics of Plasmas, 2013, 20, . | 0.7 | 19 |
| 233 | Thermophysical properties of hydrogen-helium mixtures: Re-examination of the mixing rules via quantum molecular dynamics simulations. Physical Review E, 2013, 88, 033106. | 0.8 | 8 |
| 234 | Numerical investigation of nonlinear ablative single-mode Rayleighâ€“Taylor instability in the presence of preheating. Physica Scripta, 2013, T155, 014018. | 1.2 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Generating Overcritical Dense Relativistic Electron Beams via Self-Matching Resonance Acceleration. Physical Review Letters, 2013, 110, 045002. | 2.9 | 77 |
| 236 | Nonlinear Rayleigh-Taylor instability of rotating inviscid fluids. Physical Review E, 2013, 87, 013001. | 0.8 | 23 |
| 237 | Nonlinear Evolution of Jet-Like Spikes from the Single-Mode Ablative Rayleigh-Taylor Instability with Preheating. Plasma Science and Technology, 2013, 15, 961-968. | 0.7 | 2 |
| 238 | Cascade of Kinetic Energy in Three-Dimensional Compressible Turbulence. Physical Review Letters, 2013, 110, 214505. | 2.9 | 78 |
| 239 | Anomalous-plasmoid-ejection-induced secondary magnetic reconnection: modeling solar flares and coronal mass ejections by laserâ€“plasma experiments. High Power Laser Science and Engineering, 2013, 1, 11-16. | 2.0 | 2 |
| 240 | Gamma-ray source through inverse Compton scattering in a thermal hohlraum. Laser and Particle Beams, 2013, 31, 607-611. | 0.4 | 2 |
| 241 | Kinetic model for energy deposition in fast ignition. EPJ Web of Conferences, 2013, 59, 05021. | 0.1 | 3 |
| 242 | Advances in the national inertial fusion program of China. EPJ Web of Conferences, 2013, 59, 01009. | 0.1 | 10 |
| 243 | Study on magnetic field generation and electron collimation in overdense plasmas. EPJ Web of Conferences, 2013, 59, 17017. | 0.1 | 2 |
| 244 | Table-top solar flares produced with laser driven magnetic reconnections. EPJ Web of Conferences, 2013, 59, 01010. | 0.1 | 0 |
| 245 | Relative importance of mega electronvolt-electron energy deposition by collisions and field effects in fast ignition. Physics of Plasmas, 2012, 19, . | 0.7 | 4 |
| 246 | Formation of jet-like spikes from the ablative Rayleigh-Taylor instability. Physics of Plasmas, 2012, 19, . | 0.7 | 29 |
| 247 | Cylindrical effects on Richtmyer-Meshkov instability for arbitrary Atwood numbers in weakly nonlinear regime. Physics of Plasmas, 2012, 19, 072108. | 0.7 | 14 |
| 248 | Coupling between interface and velocity perturbations in the weakly nonlinear Rayleigh-Taylor instability. Physics of Plasmas, 2012, 19, . | 0.7 | 18 |
| 249 | Nonlinear saturation amplitudes in classical Rayleigh-Taylor instability at arbitrary Atwood numbers. Physics of Plasmas, 2012, 19, . | 0.7 | 33 |
| 250 | Density gradient effects in weakly nonlinear ablative Rayleigh-Taylor instability. Physics of Plasmas, 2012, 19, . | 0.7 | 24 |
| 251 | Low Yield of Near-Zero-Momentum Electrons and Partial Atomic Stabilization in Strong-Field Tunneling Ionization. Physical Review Letters, 2012, 109, 093001. | 2.9 | 89 |
| 252 | Sub-TeV proton beam generation by ultra-intense laser irradiation of foil-and-gas target. Physics of Plasmas, 2012, 19, 023111. | 0.7 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Energetic electron generation by magnetic reconnection in laboratory laser-plasma interactions. Journal of Plasma Physics, 2012, 78, 497-500. | 0.7 | 5 |
| 254 | Fast electron beam with manageable spotsize from laser interaction with the tailored cone-nanolayer target. Laser and Particle Beams, 2012, 30, 553-558. | 0.4 | 5 |
| 255 | Multiple acoustic modes stimulated Brillouin scattering in hydrogen plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 095004. | 0.9 | 3 |
| 256 | Bursting behaviours in cascaded stimulated Brillouin scattering. Chinese Physics B, 2012, 21, 015202. | 0.7 | 2 |
| 257 | AMS Measurement of36Cl with a Q3D Magnetic Spectrometer at CIAE. Plasma Science and Technology, 2012, 14, 543-547. | 0.7 | 0 |
| 258 | Effect of plasma material on intense laser-driven beam electrons in solid foils. Laser and Particle Beams, 2012, 30, 111-116. | 0.4 | 5 |
| 259 | First-Principles Calculations of Shocked Fluid Helium in Partially Ionized Region. Communications in Computational Physics, 2012, 12, 1121-1128. | 0.7 | 3 |
| 260 | Hundreds MeV monoenergetic proton bunch from interaction of 1020â€“21 W/cm2 circularly polarized laser pulse with tailored complex target. Applied Physics Letters, 2012, 100, . | 1.5 | 36 |
| 261 | Effect of compressibility on the small-scale structures in isotropic turbulence. Journal of Fluid Mechanics, 2012, 713, 588-631. | 1.4 | 105 |
| 262 | Scaling and Statistics in Three-Dimensional Compressible Turbulence. Physical Review Letters, 2012, 108, 214505. | 2.9 | 48 |
| 263 | The equation of state, electronic thermal conductivity, and opacity of hot dense deuterium-helium plasmas. Physics of Plasmas, 2012, 19, 042702. | 0.7 | 9 |
| 264 | Plasmoid Ejection and Secondary Current Sheet Generation from Magnetic Reconnection in Laser-Plasma Interaction. Physical Review Letters, 2012, 108, 215001. | 2.9 | 102 |
| 265 | Equation of State for Shock Compressed Xenon in the Ionization Regime: ab Initio Study. Communications in Theoretical Physics, 2012, 58, 160-164. | 1.1 | 1 |
| 266 | Propagation of femtosecond terawatt laser pulses in N2 gas including higher-order Kerr effects. AIP Advances, 2012, 2, 042190. | 0.6 | 2 |
| 267 | Characteristic Spectrum of Very Low-Energy Photoelectron from Above-Threshold Ionization in the Tunneling Regime. Physical Review Letters, 2012, 109, 043001. | 2.9 | 119 |
| 268 | Stabilization of the Rayleigh-Taylor instability in quantum magnetized plasmas. Physics of Plasmas, 2012, 19, . | 0.7 | 17 |
| 269 | Magnetic-field generation and electron-collimation analysis for propagating fast electron beams in overdense plasmas. Physical Review E, 2011, 83, 036408. | 0.8 | 31 |
| 270 | Laser Shaping of a Relativistic Intense, Short Gaussian Pulse by a Plasma Lens. Physical Review Letters, 2011, 107, 265002. | 2.9 | 111 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | AbÂInitioSimulations of Dense Helium Plasmas. Physical Review Letters, 2011, 106, 145002. | 2.9 | 34 |
| 272 | Relativistic kinetic model for energy deposition of intense laser-driven electrons in fast ignition scenario. Physics of Plasmas, 2011, 18, . | 0.7 | 7 |
| 273 | Effect of shocklets on the velocity gradients in highly compressible isotropic turbulence. Physics of Fluids, 2011, 23, . | 1.6 | 70 |
| 274 | Intense short-pulse lasers irradiating wire and hollow plasma fibers. Optics Letters, 2011, 36, 924. | 1.7 | 7 |
| 275 | An ultra-short and TeV quasi-monoenergetic ion beam generation by laser wakefield accelerator in the snowplow regime. Europhysics Letters, 2011, 95, 55005. | 0.7 | 9 |
| 276 | Effect of preheating on the nonlinear evolution of the ablative Rayleigh-Taylor instability. Europhysics Letters, 2011, 96, 35002. | 0.7 | 7 |
| 277 | Stimulated backward Brillouin scattering in two ion-species plasmas. Physics of Plasmas, 2011, 18, 032705. | 0.7 | 10 |
| 278 | Thermophysical properties for shock compressed polystyrene. Physics of Plasmas, 2011, 18, . | 0.7 | 33 |
| 279 | Competitions between Rayleighâ€“Taylor instability and Kelvinâ€“Helmholtz instability with continuous density and velocity profiles. Physics of Plasmas, 2011, 18, . | 0.7 | 22 |
| 280 | Magnetic collimation of fast electrons in specially engineered targets irradiated by ultraintense laser pulses. Physics of Plasmas, 2011, 18, . | 0.7 | 13 |
| 281 | High-quality proton bunch from laser interaction with a gas-filled cone target. Physics of Plasmas, 2011, 18, . | 0.7 | 8 |
| 282 | Efficient laser absorption and enhanced electron yield in the laser-target interaction by using a cone-nanolayer target. Physics of Plasmas, 2011, 18, . | 0.7 | 10 |
| 283 | High-energy monoenergetic protons from multistaged acceleration of thin double-layer target by circularly polarized laser. Physics of Plasmas, 2011, 18, . | 0.7 | 26 |
| 284 | Modelling loop-top X-ray source and reconnection outflows in solar flares with intense lasers. Nature Physics, 2010, 6, 984-987. | 6.5 | 155 |
| 285 | Study on AuÂ+ÂUÂ+ÂAu sandwich Hohlraum wall for ignition targets. Laser and Particle Beams, 2010, 28, 75-81. | 0.4 | 22 |
| 286 | Focusing of intense laser pulse by a hollow cone. Laser and Particle Beams, 2010, 28, 293-298. | 0.4 | 8 |
| 287 | Ion jet generation in the ultraintense laser interactions with rear-side concave target. Laser and Particle Beams, 2010, 28, 351-359. | 0.4 | 3 |
| 288 | An initial design of hohlraum driven by a shaped laser pulse. Laser and Particle Beams, 2010, 28, 421-427. | 0.4 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Hot electron transport and heating in dense plasma core by hollow guiding. Laser and Particle Beams, 2010, 28, 563-570. | 0.4 | 3 |
| 290 | Jet-Like Long Spike in Nonlinear Evolution of Ablative Rayleigh-Taylor Instability. Chinese Physics Letters, 2010, 27, 125203. | 1.3 | 15 |
| 291 | Control of the hot electrons produced by laser interaction with nanolayered target. Physics of Plasmas, 2010, 17, . | 0.7 | 41 |
| 292 | Density effect on relativistic electron beams in a plasma fiber. Applied Physics Letters, 2010, 97, 201502. | 1.5 | 17 |
| 293 | Propagation of energetic electrons in a hollow plasma fiber. Applied Physics Letters, 2010, 97, 051502. | 1.5 | 17 |
| 294 | Acceleration and guiding of fast electrons by a nanobrush target. Physics of Plasmas, 2010, 17, . | 0.7 | 46 |
| 295 | Hugoniot of shocked liquid deuterium up to 300 GPa: Quantum molecular dynamic simulations. Journal of Applied Physics, 2010, 108, . | 1.1 | 9 |
| 296 | Preheating ablation effects on the Rayleighâ€“Taylor instability in the weakly nonlinear regime. Physics of Plasmas, 2010, 17, . | 0.7 | 39 |
| 297 | Spike deceleration and bubble acceleration in the ablative Rayleighâ€“Taylor instability. Physics of Plasmas, 2010, 17, . | 0.7 | 40 |
| 298 | Autofocused, enhanced proton acceleration from a nanometer-scale bulged foil. Physics of Plasmas, 2010, 17, . | 0.7 | 4 |
| 299 | Nonlocal heat transport in laser-produced aluminum plasmas. Physics of Plasmas, 2010, 17, . | 0.7 | 7 |
| 300 | Intensity determination of superintense laser pulses via ionization fraction in the relativistic tunnelling regime. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 235601. | 0.6 | 6 |
| 301 | Prepulse effects on the generation of high energy electrons in fast ignition scheme. Physics of Plasmas, 2010, 17, . | 0.7 | 38 |
| 302 | Dynamics of relativistic electrons propagating in a funnel-guided target. Physics of Plasmas, 2010, 17, 083103. | 0.7 | 18 |
| 303 | Formation of large-scale structures in ablative Kelvinâ€“Helmholtz instability. Physics of Plasmas, 2010, 17, 122308. | 0.7 | 17 |
| 304 | Enhanced absorption of intense short-pulse laser light by subwavelength nanolayered target. Physics of Plasmas, 2010, 17, . | 0.7 | 48 |
| 305 | Fusion energy without radioactivity: laser ignition of solid hydrogenâ€“boron (11) fuel. Energy and Environmental Science, 2010, 3, 479. | 15.6 | 73 |
| 306 | Collective stopping power in laser driven fusion plasmas for block ignition. Laser and Particle Beams, 2010, 28, 3-9. | 0.4 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | High-density highly collimated monoenergetic GeV ions from interaction of ultraintense short laser pulse with foil in plasma. Physics of Plasmas, 2010, 17, 043110. | 0.7 | 23 |
| 308 | Excitation of coherent terahertz radiation by stimulated Raman scatterings. Physics of Plasmas, 2010, 17, 024502. | 0.7 | 7 |
| 309 | Guiding and confining fast electrons by transient electric and magnetic fields with a plasma inverse cone. Physics of Plasmas, 2009, 16, . | 0.7 | 12 |
| 310 | Reducing current loss of laser-driven fast electron beams propagating in solid-density plasmas. Journal of Applied Physics, 2009, 105, 083311. | 1.1 | 6 |
| 311 | Reshaping of intense laser pulse with a capillary. Physics of Plasmas, 2009, 16, 093109. | 0.7 | 8 |
| 312 | Classical Aspects in Above-Threshold Ionization with a Midinfrared Strong Laser Field. Physical Review Letters, 2009, 103, 093001. | 2.9 | 269 |
| 313 | Weakly nonlinear analysis on the Kelvin-Helmholtz instability. Europhysics Letters, 2009, 86, 15002. | 0.7 | 22 |
| 314 | Threshold for laser driven block ignition for fusion energy from hydrogen boron-11. Laser and Particle Beams, 2009, 27, 201-206. | 0.4 | 14 |
| 315 | Nonlinear force driven plasma blocks igniting solid density hydrogen boron: Laser fusion energy without radioactivity. Laser and Particle Beams, 2009, 27, 491-496. | 0.4 | 21 |
| 316 | Spatially controlling fast electron transport relevant to fast ignition. , 2009, , . | | 0 |
| 317 | Enhanced resonant acceleration of electrons from intense laser interaction with density-attenuating plasma. Physics of Plasmas, 2009, 16, 013104. | 0.7 | 1 |
| 318 | Enhancement of backward Raman scattering by electron-ion collisions. Physics of Plasmas, 2009, 16, 112703. | 0.7 | 43 |
| 319 | The transition from plasma gratings to cavitons in laser-plasma interactions. Physics of Plasmas, 2009, 16, 093108. | 0.7 | 29 |
| 320 | Generation of strong magnetic fields from laser interaction with two-layer targets. Laser and Particle Beams, 2009, 27, 471-474. | 0.4 | 5 |
| 321 | Weakly nonlinear analysis on the Kelvin-Helmholtz instability. Europhysics Letters, 2009, 87, 69901. | 0.7 | 0 |
| 322 | Resonant acceleration of electrons by intense circularly polarized Gaussian laser pulses. Laser and Particle Beams, 2008, 26, 51-60. | 0.4 | 48 |
| 323 | Twenty times lower ignition threshold for laser driven fusion using collective effects and the inhibition factor. Applied Physics Letters, 2008, 93, . | 1.5 | 64 |
| 324 | Inhibition factor reduces fast ignition threshold for laser fusion using nonlinear force driven block acceleration. Laser and Particle Beams, 2008, 26, 105-112. | 0.4 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Laser-produced energetic electron transport in overdense plasmas by wire guiding. Applied Physics Letters, 2008, 92, 151502. | 1.5 | 27 |
| 326 | Stochastic heating and acceleration of electrons by high-intensity lasers in inhomogeneous plasmas. Physica Scripta, 2008, 77, 045502. | 1.2 | 3 |
| 327 | Nonlinear laser focusing using a conical guide and generation of energetic ions. Physical Review E, 2008, 78, 036405. | 0.8 | 35 |
| 328 | Intense-laser generated relativistic electron transport in coaxial two-layer targets. Applied Physics Letters, 2008, 92, . | 1.5 | 22 |
| 329 | Intense laser-driven relativistic electron beams in a two-layer target. Physics of Plasmas, 2008, 15, . | 0.7 | 8 |
| 330 | Stochastic heating and acceleration of electrons by high intensity lasers in inhomogeneous plasmas. Journal of Physics: Conference Series, 2008, 112, 042045. | 0.3 | 0 |
| 331 | High Intensity Laser Propagation though Overdense Plasmas. The Review of Laser Engineering, 2008, 36, 1139-1141. | 0.0 | 0 |
| 332 | Density effect on proton acceleration from carbon-containing high-density thin foils irradiated by high-intensity laser pulses. Journal of Applied Physics, 2007, 101, 103302. | 1.1 | 6 |
| 333 | Fast ignition by laser driven particle beams of very high intensity. Physics of Plasmas, 2007, 14, 072701. | 0.7 | 101 |
| 334 | Complex dynamics of femtosecond terawatt laser pulses in air. Applied Physics Letters, 2007, 91, 221114. | 1.5 | 6 |
| 335 | Electron acceleration by high current-density relativistic electron bunch in plasmas. Laser and Particle Beams, 2007, 25, 313-319. | 0.4 | 25 |
| 336 | Interaction of short-pulse ultrarelativistic electron bunch with plasmas. Europhysics Letters, 2007, 79, 35001. | 0.7 | 3 |
| 337 | Intense laser-driven energetic proton beams from solid density targets. Optics Letters, 2007, 32, 2444. | 1.7 | 27 |
| 338 | Influence of a large oblique incident angle on energetic protons accelerated from solid-density plasmas by ultraintense laser pulses. Applied Physics Letters, 2007, 90, 031503. | 1.5 | 40 |
| 339 | Nonlinear properties of relativistically intense laser in plasmas. Physics of Plasmas, 2007, 14, 112301. | 0.7 | 6 |
| 340 | Laser fusion driver development in SIOM and some related optical technology progress in China. , 2007, , . | | 1 |
| 341 | Electron acceleration by the self-generated magnetic field of multiple laser pulses in plasma. Physica Scripta, 2007, 75, 340-344. | 1.2 | 3 |
| 342 | Synthesis, characterization, and antibacterial activity of new rare-earth ion complexes with unsymmetrical Schiff base ligand. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2007, 33, 535-538. | 0.3 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | Inertial fusion research in China. European Physical Journal D, 2007, 44, 227-231. | 0.6 | 87 |
| 344 | Fluid theory for quasistatic magnetic field generation in intense laser plasma interaction. Physics of Plasmas, 2006, 13, 053106. | 0.7 | 23 |
| 345 | Plasma blocks from nonlinear force generated skin layer acceleration for ignition of a fusion flame in nearly uncompressed solid DT. European Physical Journal Special Topics, 2006, 133, 219-222. | 0.2 | 4 |
| 346 | Ablation of nonlinear-force driven plasma blocks for fast igniter application. , 2006, , . | | 0 |
| 347 | Simulation of electron beam instabilities in collisionless plasmas. Journal of Plasma Physics, 2006, 72, 249. | 0.7 | 5 |
| 348 | Additional acceleration and collimation of relativistic electron beams by magnetic field resonance at very high intensity laser interaction. Applied Physics B: Lasers and Optics, 2006, 82, 93-97. | 1.1 | 19 |
| 349 | A note on chaotic unimodal maps and applications. Chaos, 2006, 16, 033113. | 1.0 | 1 |
| 350 | A comparison of ultrarelativistic electron- and positron-bunch propagation in plasmas. Physics of Plasmas, 2006, 13, 092109. | 0.7 | 15 |
| 351 | X-wave solutions of complex Ginzburg-Landau equations. Physical Review E, 2006, 73, 026209. | 0.8 | 15 |
| 352 | Status of inertial confinement fusion research in China. European Physical Journal Special Topics, 2006, 133, 89-94. | 0.2 | 0 |
| 353 | Magnetic field generation and relativistic electron dynamics in circularly polarized intense laser interaction with dense plasma. Physics of Plasmas, 2005, 12, 044505. | 0.7 | 24 |
| 354 | Fluid theory of magnetic-field generation in intense laser-plasma interaction. Europhysics Letters, 2005, 72, 955-961. | 0.7 | 5 |
| 355 | Quasistatic magnetic and electric fields generated in intense laser plasma interaction. Physics of Plasmas, 2005, 12, 053104. | 0.7 | 40 |
| 356 | Electron acceleration in combined intense laser fields and self-consistent quasistatic fields in plasma. Physics of Plasmas, 2005, 12, 083102. | 0.7 | 25 |
| 357 | Fusion energy from plasma block ignition. Laser and Particle Beams, 2005, 23, 423-432. | 0.4 | 37 |
| 358 | Generation of Nonlinear Force Driven Blocks from Skin Layer Interaction of Petawatt-Picosecond Laser Pulses for ICF. Plasma Science and Technology, 2004, 6, 2172-2178. | 0.7 | 4 |
| 359 | Resonance acceleration of electrons in combined strong magnetic fields and intense laser fields. Physical Review E, 2004, 69, 066409. | 0.8 | 45 |
| 360 | Skin depth plasma front interaction mechanism with prepulse suppression to avoid relativistic self-focusing for high-gain laser fusion. Laser and Particle Beams, 2004, 22, 83-87. | 0.4 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Periodic and solitary waves of the cubicâ€“quintic nonlinear SchrÃ¶dinger equation. Journal of Plasma Physics, 2004, 70, 415-429. | 0.7 | 13 |
| 362 | A theoretical model for a spontaneous magnetic field in intense laser plasma interaction. Physics of Plasmas, 2003, 10, 4166-4168. | 0.7 | 11 |
| 363 | Hierarchical Structures in Spatially Extended Systems. International Journal of Modern Physics B, 2003, 17, 4139-4148. | 1.0 | 3 |
| 364 | Harmonic modulation instability and spatiotemporal chaos. Physical Review E, 2002, 66, 037201. | 0.8 | 5 |
| 365 | Laser hohlraum coupling efficiency on the Shenguang II facility. Physics of Plasmas, 2002, 9, 4744-4748. | 0.7 | 14 |
| 366 | Stabilization of ablative Rayleigh-Taylor instability due to change of the Atwood number. Physical Review E, 2002, 65, 057401. | 0.8 | 78 |
| 367 | Slow-time-scale magnetic fields driven by fast-time-scale waves in an underdense relativistic Vlasov plasma. Physics of Plasmas, 2001, 8, 321-328. | 0.7 | 19 |
| 368 | Pattern dynamics and spatiotemporal chaos in the conserved Zakharov equations. Physica A: Statistical Mechanics and Its Applications, 2000, 288, 338-343. | 1.2 | 3 |
| 369 | Direct-Drive Implosion Experiments on the SG-II Laser Facility. Journal of Fusion Energy, 2000, 19, 81-85. | 0.5 | 5 |
| 370 | Instability of relativistic electron beam with strong magnetic field. Science Bulletin, 2000, 45, 18-23. | 1.7 | 4 |
| 371 | Magnetic field generated by ionization front produced by intense laser radiating gas. Physics of Plasmas, 1999, 6, 2954-2956. | 0.7 | 3 |
| 372 | Characterization of Pattern Formation from Modulation Instability in the Cubic SchrÃ¶dinger Equation. Chinese Physics Letters, 1998, 15, 659-661. | 1.3 | 2 |
| 373 | A binary mixture of monodisperse polymers of fixed architectures, and the critical and the theta states. Journal of Chemical Physics, 1998, 108, 5104-5121. | 1.2 | 22 |
| 374 | Pattern Formation and Competition in the Regime of the Conserved Cubic-Quintic Nonlinear SchrÃ¶dinger Equation. Modern Physics Letters B, 1998, 12, 943-954. | 1.0 | 1 |
| 375 | The volume ignition for ICF ignition target. , 1997, , . | | 0 |
| 376 | A moderate-gain ICF model from LTE ignition to non-LTE burn. AIP Conference Proceedings, 1996, , . | 0.3 | 1 |
| 377 | Spatiotemporal Chaos in The Regime of the Conserved Zakharov Equations. Physical Review Letters, 1995, 74, 78-81. | 2.9 | 20 |
| 378 | Physical processes of volume ignition and thermonuclear burn for high-gain inertial confinement fusion. AIP Conference Proceedings, 1994, , . | 0.3 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | QUASIPERIODIC AND CHAOTIC BEHAVIOR ON ZAKHAROV EQUATIONS. Modern Physics Letters B, 1994, 08, 833-840. | 1.0 | 0 |
| 380 | Stochastic diffusion of electrons in evolutive Langmuir fields. Physica Scripta, 1994, 50, 415-418. | 1.2 | 22 |
| 381 | Spatial chaos and patterns in laser-produced plasmas. Physical Review E, 1994, 49, 4417-4424. | 0.8 | 13 |
| 382 | Pattern structures on generalized nonlinear SchrÃ¶dinger equations with various nonlinear terms. Physical Review E, 1994, 50, 4136-4155. | 0.8 | 20 |
| 383 | Modified formula of nonlocal electron transport in a laser-produced plasma. Physical Review E, 1994, 50, 443-447. | 0.8 | 4 |
| 384 | Chaotic Behavior of One-Dimensional Nonlinear SchrÃ¶dinger Equations Involving High Order Saturable Nonlinear Terms. Communications in Theoretical Physics, 1993, 19, 231-242. | 1.1 | 0 |
| 385 | Spatiotemporal complexity of the cubic-quintic nonlinear Schrodinger equation. Journal of Physics A, 1993, 26, 4123-4133. | 1.6 | 10 |
| 386 | Ponderomotive force is unmagnetized Vlasov plasma. Plasma Physics and Controlled Fusion, 1993, 35, 291-299. | 0.9 | 2 |
| 387 | Dynamic properties and the two-point correlation function for electrons in localized coherent Langmuir fields. Physical Review A, 1992, 46, 3486-3492. | 1.0 | 5 |
| 388 | Basic dynamic properties of the high-order nonlinear SchrÃ¶dinger equation. Physical Review A, 1992, 46, 2277-2285. | 1.0 | 58 |
| 389 | Pattern form and homoclinic structure in Zakharov equations. Physical Review A, 1992, 45, 6109-6112. | 1.0 | 7 |
| 390 | Symbolic Dynamics and Topological Entropy of Henon Map. Communications in Theoretical Physics, 1991, 15, 1-8. | 1.1 | 0 |
| 391 | Relative diffusion and formation of clumps in phase space of electrons in localized Langmuir fields. Physical Review A, 1991, 43, 1988-1993. | 1.0 | 5 |