

Xian-Tu He

List of Publications by Year in descending order

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391
papers

6,682
citations

87723

38
h-index

128067

60
g-index

397
all docs

397
docs citations

397
times ranked

2969
citing authors

#	ARTICLE	IF	CITATIONS
1	Classical Aspects in Above-Threshold Ionization with a Midinfrared Strong Laser Field. <i>Physical Review Letters</i> , 2009, 103, 093001.	2.9	269
2	Modelling loop-top X-ray source and reconnection outflows in solar flares with intense lasers. <i>Nature Physics</i> , 2010, 6, 984-987.	6.5	155
3	Characteristic Spectrum of Very Low-Energy Photoelectron from Above-Threshold Ionization in the Tunneling Regime. <i>Physical Review Letters</i> , 2012, 109, 043001.	2.9	119
4	Laser Shaping of a Relativistic Intense, Short Gaussian Pulse by a Plasma Lens. <i>Physical Review Letters</i> , 2011, 107, 265002.	2.9	111
5	Progress in octahedral spherical hohlraum study. <i>Matter and Radiation at Extremes</i> , 2016, 1, 8-27.	1.5	106
6	Effect of compressibility on the small-scale structures in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2012, 713, 588-631.	1.4	105
7	Plasmoid Ejection and Secondary Current Sheet Generation from Magnetic Reconnection in Laser-Plasma Interaction. <i>Physical Review Letters</i> , 2012, 108, 215001.	2.9	102
8	Fast ignition by laser driven particle beams of very high intensity. <i>Physics of Plasmas</i> , 2007, 14, 072701.	0.7	101
9	A hybrid-drive nonisobaric-ignition scheme for inertial confinement fusion. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	97
10	Low Yield of Near-Zero-Momentum Electrons and Partial Atomic Stabilization in Strong-Field Tunneling Ionization. <i>Physical Review Letters</i> , 2012, 109, 093001.	2.9	89
11	Inertial fusion research in China. <i>European Physical Journal D</i> , 2007, 44, 227-231.	0.6	87
12	Laser Acceleration of Highly Energetic Carbon Ions Using a Double-Layer Target Composed of Slightly Underdense Plasma and Ultrathin Foil. <i>Physical Review Letters</i> , 2019, 122, 014803.	2.9	84
13	Stabilization of ablative Rayleigh-Taylor instability due to change of the Atwood number. <i>Physical Review E</i> , 2002, 65, 057401.	0.8	78
14	Cascade of Kinetic Energy in Three-Dimensional Compressible Turbulence. <i>Physical Review Letters</i> , 2013, 110, 214505.	2.9	78
15	Generating Overcritical Dense Relativistic Electron Beams via Self-Matching Resonance Acceleration. <i>Physical Review Letters</i> , 2013, 110, 045002.	2.9	77
16	Fusion energy without radioactivity: laser ignition of solid hydrogen- ¹¹ boron fuel. <i>Energy and Environmental Science</i> , 2010, 3, 479.	15.6	73
17	Effect of shocklets on the velocity gradients in highly compressible isotropic turbulence. <i>Physics of Fluids</i> , 2011, 23, .	1.6	70
18	High flux symmetry of the spherical hohlraum with octahedral 6LEHs at the hohlraum-to-capsule radius ratio of 5.14. <i>Physics of Plasmas</i> , 2014, 21, 010704.	0.7	67

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19	Twenty times lower ignition threshold for laser driven fusion using collective effects and the inhibition factor. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	64
20	Basic dynamic properties of the high-order nonlinear Schrödinger equation. <i>Physical Review A</i> , 1992, 46, 2277-2285.	1.0	58
21	Octahedral spherical hohlraum and its laser arrangement for inertial fusion. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	56
22	Extended application of Kohn-Sham first-principles molecular dynamics method with plane wave approximation at high energy—From cold materials to hot dense plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	54
23	A Review of Equation-of-State Models for Inertial Confinement Fusion Materials. <i>High Energy Density Physics</i> , 2018, 28, 7-24.	0.4	54
24	Characteristics of betatron radiation from direct-laser-accelerated electrons. <i>Physical Review E</i> , 2016, 93, 063203.	0.8	53
25	Theoretical and simulation research of hydrodynamic instabilities in inertial-confinement fusion implosions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	2.0	49
26	Resonant acceleration of electrons by intense circularly polarized Gaussian laser pulses. <i>Laser and Particle Beams</i> , 2008, 26, 51-60.	0.4	48
27	Enhanced absorption of intense short-pulse laser light by subwavelength nanolayered target. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	48
28	Scaling and Statistics in Three-Dimensional Compressible Turbulence. <i>Physical Review Letters</i> , 2012, 108, 214505.	2.9	48
29	Acceleration and guiding of fast electrons by a nanobrush target. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	46
30	Resonance acceleration of electrons in combined strong magnetic fields and intense laser fields. <i>Physical Review E</i> , 2004, 69, 066409.	0.8	45
31	Enhancement of backward Raman scattering by electron-ion collisions. <i>Physics of Plasmas</i> , 2009, 16, 112703.	0.7	43
32	Control of the hot electrons produced by laser interaction with nanolayered target. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	41
33	Quasistatic magnetic and electric fields generated in intense laser plasma interaction. <i>Physics of Plasmas</i> , 2005, 12, 053104.	0.7	40
34	Influence of a large oblique incident angle on energetic protons accelerated from solid-density plasmas by ultraintense laser pulses. <i>Applied Physics Letters</i> , 2007, 90, 031503.	1.5	40
35	Spike deceleration and bubble acceleration in the ablative Rayleigh–Taylor instability. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	40
36	Brilliant petawatt gamma-ray pulse generation in quantum electrodynamic laser-plasma interaction. <i>Scientific Reports</i> , 2017, 7, 45031.	1.6	40

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37	Preheating ablation effects on the Rayleigh-Taylor instability in the weakly nonlinear regime. Physics of Plasmas, 2010, 17, .	0.7	39
38	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
39	Prepulse effects on the generation of high energy electrons in fast ignition scheme. Physics of Plasmas, 2010, 17, .	0.7	38
40	Fusion energy from plasma block ignition. Laser and Particle Beams, 2005, 23, 423-432.	0.4	37
41	Weakly nonlinear Bell-Plesset effects for a uniformly converging cylinder. Physics of Plasmas, 2015, 22, .	0.7	37
42	Achieving Stable Radiation Pressure Acceleration of Heavy Ions via Successive Electron Replenishment from Ionization of a High- Z Material Coating. Physical Review Letters, 2017, 118, 204802.	2.9	37
43	Hundreds MeV monoenergetic proton bunch from interaction of 1020 W/cm ² circularly polarized laser pulse with tailored complex target. Applied Physics Letters, 2012, 100, .	1.5	36
44	Nonlinear laser focusing using a conical guide and generation of energetic ions. Physical Review E, 2008, 78, 036405.	0.8	35
45	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
46	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
47	First Investigation on the Radiation Field of the Spherical Hohlraum. Physical Review Letters, 2016, 117, 025002.	2.9	35
48	Simulations of Dense Helium Plasmas. Physical Review Letters, 2011, 106, 145002.	2.9	34
49	Effects of the imposed magnetic field on the production and transport of relativistic electron beams. Physics of Plasmas, 2013, 20, 072701.	0.7	34
50	Dense Helical Electron Bunch Generation in Near-Critical Density Plasmas with Ultrarelativistic Laser Intensities. Scientific Reports, 2015, 5, 15499.	1.6	34
51	Thermophysical properties for shock compressed polystyrene. Physics of Plasmas, 2011, 18, .	0.7	33
52	Nonlinear saturation amplitudes in classical Rayleigh-Taylor instability at arbitrary Atwood numbers. Physics of Plasmas, 2012, 19, .	0.7	33
53	Enhanced energy coupling for indirect-drive fast-ignition fusion targets. Nature Physics, 2020, 16, 810-814.	6.5	33
54	Weakly nonlinear incompressible Rayleigh-Taylor instability growth at cylindrically convergent interfaces. Physics of Plasmas, 2013, 20, 042708.	0.7	32

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55	Weakly nonlinear Rayleigh-Taylor instability of a finite-thickness fluid layer. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	32
56	High-efficiency γ -ray flash generation via multiple-laser scattering in ponderomotive potential well. <i>Physical Review E</i> , 2017, 95, 013210.	0.8	32
57	Experimental demonstration of a laser proton accelerator with accurate beam control through image-relaying transport. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	0.6	32
58	Magnetic-field generation and electron-collimation analysis for propagating fast electron beams in overdense plasmas. <i>Physical Review E</i> , 2011, 83, 036408.	0.8	31
59	Experimental Evidence of Kinetic Effects in Indirect-Drive Inertial Confinement Fusion Hohlraums. <i>Physical Review Letters</i> , 2018, 120, 195001.	2.9	31
60	Inhibition factor reduces fast ignition threshold for laser fusion using nonlinear force driven block acceleration. <i>Laser and Particle Beams</i> , 2008, 26, 105-112.	0.4	30
61	Suppression of transverse ablative Rayleigh-Taylor-like instability in the hole-boring radiation pressure acceleration by using elliptically polarized laser pulses. <i>Physical Review E</i> , 2014, 90, 023101.	0.8	30
62	Monte Carlo approach to calculate proton stopping in warm dense matter within particle-in-cell simulations. <i>Physical Review E</i> , 2017, 95, 023207.	0.8	30
63	The transition from plasma gratings to cavitons in laser-plasma interactions. <i>Physics of Plasmas</i> , 2009, 16, 093108.	0.7	29
64	Formation of jet-like spikes from the ablative Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	29
65	RELATIVISTIC ELECTRONS PRODUCED BY RECONNECTING ELECTRIC FIELDS IN A LASER-DRIVEN BENCH-TOP SOLAR FLARE. <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 30.	3.0	29
66	Molecular dynamics simulation of strong shock waves propagating in dense deuterium, taking into consideration effects of excited electrons. <i>Physical Review E</i> , 2017, 95, 023201.	0.8	29
67	Quasi-monoenergetic ion beam acceleration by laser-driven shock and solitary waves in near-critical plasmas. <i>Physics of Plasmas</i> , 2016, 23, 073118.	0.7	28
68	A scheme for reducing deceleration-phase Rayleigh-Taylor growth in inertial confinement fusion implosions. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	28
69	Molecular dynamics simulations of microscopic structure of ultra strong shock waves in dense helium. <i>Frontiers of Physics</i> , 2016, 11, 1.	2.4	28
70	Link between K -absorption edges and thermodynamic properties of warm dense plasmas established by an improved first-principles method. <i>Physical Review B</i> , 2016, 93, .	1.1	28
71	Experimental demonstration of low laser-plasma instabilities in gas-filled spherical hohlraums at laser injection angle designed for ignition target. <i>Physical Review E</i> , 2017, 95, 031202.	0.8	28
72	Brilliant GeV gamma-ray flash from inverse Compton scattering in the QED regime. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 044004.	0.9	28

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73	Intense laser-driven energetic proton beams from solid density targets. <i>Optics Letters</i> , 2007, 32, 2444.	1.7	27
74	Laser-produced energetic electron transport in overdense plasmas by wire guiding. <i>Applied Physics Letters</i> , 2008, 92, 151502.	1.5	27
75	Quasimonoenergetic electron beam and brilliant gamma-ray radiation generated from near critical density plasma due to relativistic resonant phase locking. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	27
76	High-energy monoenergetic protons from multistaged acceleration of thin double-layer target by circularly polarized laser. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	26
77	Sub-TeV proton beam generation by ultra-intense laser irradiation of foil-and-gas target. <i>Physics of Plasmas</i> , 2012, 19, 023111.	0.7	26
78	Generation of high-energy mono-energetic heavy ion beams by radiation pressure acceleration of ultra-intense laser pulses. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	26
79	Three-dimensional fast magnetic reconnection driven by relativistic ultraintense femtosecond lasers. <i>Physical Review E</i> , 2014, 89, 031101.	0.8	26
80	Competition between stimulated Raman scattering and two-plasmon decay in inhomogeneous plasma. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	26
81	Electron acceleration in combined intense laser fields and self-consistent quasistatic fields in plasma. <i>Physics of Plasmas</i> , 2005, 12, 083102.	0.7	25
82	Electron acceleration by high current-density relativistic electron bunch in plasmas. <i>Laser and Particle Beams</i> , 2007, 25, 313-319.	0.4	25
83	Magnetic field generation and relativistic electron dynamics in circularly polarized intense laser interaction with dense plasma. <i>Physics of Plasmas</i> , 2005, 12, 044505.	0.7	24
84	Density gradient effects in weakly nonlinear ablative Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	24
85	On the stimulated Raman sidescattering in inhomogeneous plasmas: revisit of linear theory and three-dimensional particle-in-cell simulations. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 025020.	0.9	24
86	Particle-in-cell simulations of laser-plasma interactions at solid densities and relativistic intensities: the role of atomic processes. <i>High Power Laser Science and Engineering</i> , 2018, 6, .	2.0	24
87	Fluid theory for quasistatic magnetic field generation in intense laser plasma interaction. <i>Physics of Plasmas</i> , 2006, 13, 053106.	0.7	23
88	An initial design of hohlraum driven by a shaped laser pulse. <i>Laser and Particle Beams</i> , 2010, 28, 421-427.	0.4	23
89	High-density highly collimated monoenergetic GeV ions from interaction of ultraintense short laser pulse with foil in plasma. <i>Physics of Plasmas</i> , 2010, 17, 043110.	0.7	23
90	Nonlinear Rayleigh-Taylor instability of rotating inviscid fluids. <i>Physical Review E</i> , 2013, 87, 013001.	0.8	23

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91	Mitigating the relativistic laser beam filamentation via an elliptical beam profile. <i>Physical Review E</i> , 2015, 92, 053106.	0.8	23
92	Monte Carlo approach to calculate ionization dynamics of hot solid-density plasmas within particle-in-cell simulations. <i>Physical Review E</i> , 2017, 95, 023208.	0.8	23
93	Neutron Generation by Laser-Driven Spherically Convergent Plasma Fusion. <i>Physical Review Letters</i> , 2017, 118, 165001.	2.9	23
94	Stochastic diffusion of electrons in evolutive Langmuir fields. <i>Physica Scripta</i> , 1994, 50, 415-418.	1.2	22
95	A binary mixture of monodisperse polymers of fixed architectures, and the critical and the theta states. <i>Journal of Chemical Physics</i> , 1998, 108, 5104-5121.	1.2	22
96	Intense-laser generated relativistic electron transport in coaxial two-layer targets. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	22
97	Weakly nonlinear analysis on the Kelvin-Helmholtz instability. <i>Europhysics Letters</i> , 2009, 86, 15002.	0.7	22
98	Study on Au+Au sandwich Hohlraum wall for ignition targets. <i>Laser and Particle Beams</i> , 2010, 28, 75-81.	0.4	22
99	Competitions between Rayleigh-Taylor instability and Kelvin-Helmholtz instability with continuous density and velocity profiles. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	22
100	Enhanced target normal sheath acceleration of protons from intense laser interaction with a cone-tube target. <i>AIP Advances</i> , 2016, 6, .	0.6	22
101	Revisit on ion acceleration mechanisms in solid targets driven by intense laser pulses. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 014039.	0.9	22
102	Nonlinear force driven plasma blocks igniting solid density hydrogen boron: Laser fusion energy without radioactivity. <i>Laser and Particle Beams</i> , 2009, 27, 491-496.	0.4	21
103	Interactions between inertial particles and shocklets in compressible turbulent flow. <i>Physics of Fluids</i> , 2014, 26, .	1.6	21
104	Collimated gamma photon emission driven by PW laser pulse in a plasma density channel. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	21
105	Pattern structures on generalized nonlinear Schrödinger equations with various nonlinear terms. <i>Physical Review E</i> , 1994, 50, 4136-4155.	0.8	20
106	Spatiotemporal Chaos in The Regime of the Conserved Zakharov Equations. <i>Physical Review Letters</i> , 1995, 74, 78-81.	2.9	20
107	Skin depth plasma front interaction mechanism with prepulse suppression to avoid relativistic self-focusing for high-gain laser fusion. <i>Laser and Particle Beams</i> , 2004, 22, 83-87.	0.4	20
108	Nonlinear evolution of stimulated Raman scattering near the quarter-critical density. <i>Physics of Plasmas</i> , 2015, 22, 052121.	0.7	20

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109	Excitation of nonlinear ion acoustic waves in CH plasmas. <i>Physics of Plasmas</i> , 2016, 23, 082106.	0.7	20
110	Energetic electron-bunch generation in a phase-locked longitudinal laser electric field. <i>Physical Review E</i> , 2016, 93, 043207.	0.8	20
111	Validity boundary of orbital-free molecular dynamics method corresponding to thermal ionization of shell structure. <i>Physical Review B</i> , 2016, 94, .	1.1	20
112	Multidimensional effects on proton acceleration using high-power intense laser pulses. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	20
113	First-Principles Estimation of Electronic Temperature from X-Ray Thomson Scattering Spectrum of Isochorically Heated Warm Dense Matter. <i>Physical Review Letters</i> , 2018, 120, 205002.	2.9	20
114	Slow-time-scale magnetic fields driven by fast-time-scale waves in an underdense relativistic Vlasov plasma. <i>Physics of Plasmas</i> , 2001, 8, 321-328.	0.7	19
115	Additional acceleration and collimation of relativistic electron beams by magnetic field resonance at very high intensity laser interaction. <i>Applied Physics B: Lasers and Optics</i> , 2006, 82, 93-97.	1.1	19
116	Synthesis, characterization, and antibacterial activity of new rare-earth ion complexes with unsymmetrical Schiff base ligand. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2007, 33, 535-538.	0.3	19
117	Preplasma effects on the generation of high-energy protons in ultraintense laser interaction with foil targets. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	19
118	High-order implicit particle-in-cell method for plasma simulations at solid densities. <i>Physical Review E</i> , 2019, 100, 013207.	0.8	19
119	Dynamics of relativistic electrons propagating in a funnel-guided target. <i>Physics of Plasmas</i> , 2010, 17, 083103.	0.7	18
120	Coupling between interface and velocity perturbations in the weakly nonlinear Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	18
121	Equations of state and transport properties of warm dense beryllium: A quantum molecular dynamics study. <i>Physical Review E</i> , 2013, 87, 043105.	0.8	18
122	Acceleration of Passive Tracers in Compressible Turbulent Flow. <i>Physical Review Letters</i> , 2013, 110, 064503.	2.9	18
123	The radiation reaction effects in the ultra-intense and ultra-short laser foil interaction regime. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	18
124	Nonlinear parametric resonance of relativistic electrons with a linearly polarized laser pulse in a plasma channel. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	18
125	First experimental comparisons of laser-plasma interactions between spherical and cylindrical hohlraums at SGIII laser facility. <i>Matter and Radiation at Extremes</i> , 2017, 2, 77-86.	1.5	18
126	Giant Isolated Attosecond Pulses from Two-Color Laser-Plasma Interactions. <i>Physical Review Letters</i> , 2020, 124, 114802.	2.9	18

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127	Density effect on relativistic electron beams in a plasma fiber. Applied Physics Letters, 2010, 97, 201502.	1.5	17
128	Propagation of energetic electrons in a hollow plasma fiber. Applied Physics Letters, 2010, 97, 051502.	1.5	17
129	Formation of large-scale structures in ablative Kelvin-Helmholtz instability. Physics of Plasmas, 2010, 17, 122308.	0.7	17
130	Stabilization of the Rayleigh-Taylor instability in quantum magnetized plasmas. Physics of Plasmas, 2012, 19, .	0.7	17
131	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
132	Statistics and structures of pressure and density in compressible isotropic turbulence. Journal of Turbulence, 2013, 14, 21-37.	0.5	16
133	Long-Range Coulomb Effect in Intense Laser-Driven Photoelectron Dynamics. Scientific Reports, 2016, 6, 27108.	1.6	16
134	Linear theory of multibeam parametric instabilities in homogeneous plasmas. Physics of Plasmas, 2019, 26, .	0.7	16
135	Stimulated Brillouin scattering of backward stimulated Raman scattering. Scientific Reports, 2020, 10, 3492.	1.6	16
136	A comparison of ultrarelativistic electron- and positron-bunch propagation in plasmas. Physics of Plasmas, 2006, 13, 092109.	0.7	15
137	X-wave solutions of complex Ginzburg-Landau equations. Physical Review E, 2006, 73, 026209.	0.8	15
138	Jet-Like Long Spike in Nonlinear Evolution of Ablative Rayleigh-Taylor Instability. Chinese Physics Letters, 2010, 27, 125203.	1.3	15
139	A wedged-peak-pulse design with medium fuel adiabat for indirect-drive fusion. Physics of Plasmas, 2014, 21, .	0.7	15
140	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
141	Main drive optimization of a high-foot pulse shape in inertial confinement fusion implosions. Physics of Plasmas, 2016, 23, .	0.7	15
142	Radiation reaction induced spiral attractors in ultra-intense colliding laser beams. Matter and Radiation at Extremes, 2016, 1, 308-315.	1.5	15
143	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
144	Weakly nonlinear incompressible Rayleigh-Taylor instability in spherical geometry. Physics of Plasmas, 2017, 24, 062703.	0.7	15

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145	Relativistic laser hosing instability suppression and electron acceleration in a preformed plasma channel. <i>Physical Review E</i> , 2017, 95, 043207.	0.8	15
146	Nonlinear transition from convective to absolute Raman instability with trapped electrons and inflationary growth of reflectivity. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	15
147	Efficient production of strong magnetic fields from ultraintense ultrashort laser pulse with capacitor-coil target. <i>Physics of Plasmas</i> , 2018, 25, 083111.	0.7	15
148	Unified decomposition method to study Rayleigh-Taylor instability in liquids and solids. <i>Physical Review E</i> , 2018, 97, 063109.	0.8	15
149	Laser hohlraum coupling efficiency on the Shenguang II facility. <i>Physics of Plasmas</i> , 2002, 9, 4744-4748.	0.7	14
150	Threshold for laser driven block ignition for fusion energy from hydrogen boron-11. <i>Laser and Particle Beams</i> , 2009, 27, 201-206.	0.4	14
151	Cylindrical effects on Richtmyer-Meshkov instability for arbitrary Atwood numbers in weakly nonlinear regime. <i>Physics of Plasmas</i> , 2012, 19, 072108.	0.7	14
152	Transport properties of dense deuterium-tritium plasmas. <i>Physical Review E</i> , 2013, 88, 013106.	0.8	14
153	Laser-driven three-stage heavy-ion acceleration from relativistic laser-plasma interaction. <i>Physical Review E</i> , 2014, 89, 013107.	0.8	14
154	Ion acceleration enhanced by target ablation. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	14
155	Near-diffraction-limited laser focusing with a near-critical density plasma lens. <i>Optics Letters</i> , 2016, 41, 139.	1.7	14
156	Electrostatic capacitance-type acceleration of ions with an intense few-cycle laser pulse. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	14
157	Spatial chaos and patterns in laser-produced plasmas. <i>Physical Review E</i> , 1994, 49, 4417-4424.	0.8	13
158	Periodic and solitary waves of the cubic-quintic nonlinear Schrödinger equation. <i>Journal of Plasma Physics</i> , 2004, 70, 415-429.	0.7	13
159	Magnetic collimation of fast electrons in specially engineered targets irradiated by ultraintense laser pulses. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	13
160	Transition from convective to absolute Raman instability via the longitudinal relativistic effect by using Vlasov-Maxwell simulations. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	13
161	Production of 100-TW single attosecond x-ray pulse. <i>Optica</i> , 2020, 7, 355.	4.8	13
162	Guiding and confining fast electrons by transient electric and magnetic fields with a plasma inverse cone. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	12

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163	Breather-like penetration of ultrashort linearly polarized laser into over-dense plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	12
164	Self-shaping of a relativistic elliptically Gaussian laser beam in underdense plasmas. <i>Laser and Particle Beams</i> , 2015, 33, 347-353.	0.4	12
165	Particle-in-cell simulation of transport and energy deposition of intense proton beams in solid-state materials. <i>Physical Review E</i> , 2019, 100, 013208.	0.8	12
166	Proton beams from intense laser-solid interaction: Effects of the target materials. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	1.5	12
167	Particle-in-cell simulation method for macroscopic degenerate plasmas. <i>Physical Review E</i> , 2020, 102, 033312.	0.8	12
168	Ion wave breaking acceleration. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	0.6	12
169	A theoretical model for a spontaneous magnetic field in intense laser plasma interaction. <i>Physics of Plasmas</i> , 2003, 10, 4166-4168.	0.7	11
170	MODELING SUPERSONIC-JET DEFLECTION IN THE HERBIGâ€™HARO 110-270 SYSTEM WITH HIGH-POWER LASERS. <i>Astrophysical Journal</i> , 2015, 815, 46.	1.6	11
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