

Vladimir T Tikhonchuk

List of Publications by Year in descending order

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506
papers

13,179
citations

30070

54
h-index

43889

91
g-index

515
all docs

515
docs citations

515
times ranked

5180
citing authors

#	ARTICLE	IF	CITATIONS
1	Ablation of solids by femtosecond lasers: Ablation mechanism and ablation thresholds for metals and dielectrics. <i>Physics of Plasmas</i> , 2002, 9, 949-957.	1.9	711
2	Conical Forward THz Emission from Femtosecond-Laser-Beam Filamentation in Air. <i>Physical Review Letters</i> , 2007, 98, 235002.	7.8	444
3	Laser-Induced Microexplosion Confined in the Bulk of a Sapphire Crystal: Evidence of Multimegabar Pressures. <i>Physical Review Letters</i> , 2006, 96, 166101.	7.8	326
4	Laser-matter interaction in the bulk of a transparent solid: Confined microexplosion and void formation. <i>Physical Review B</i> , 2006, 73, .	3.2	304
5	Monoenergetic ion beams from ultrathin foils irradiated by ultrahigh-contrast circularly polarized laser pulses. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2008, 11, .	1.8	244
6	Hole Boring in a DT Pellet and Fast-Ion Ignition with Ultraintense Laser Pulses. <i>Physical Review Letters</i> , 2009, 102, 025002.	7.8	237
7	Strong Enhancement of Terahertz Radiation from Laser Filaments in Air by a Static Electric Field. <i>Physical Review Letters</i> , 2008, 100, 255006.	7.8	219
8	Electron and photon production from relativistic laser-plasma interactions. <i>Nuclear Fusion</i> , 2003, 43, 629-633.	3.5	184
9	Self-focusing, channel formation, and high-energy ion generation in interaction of an intense short laser pulse with a He jet. <i>Physical Review E</i> , 1999, 59, 7042-7054.	2.1	183
10	Forward THz radiation emission by femtosecond filamentation in gases: theory and experiment. <i>New Journal of Physics</i> , 2008, 10, 013015.	2.9	178
11	Relativistic laser piston model: Ponderomotive ion acceleration in dense plasmas using ultraintense laser pulses. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	160
12	Quasimonoenergetic Deuteron Bursts Produced by Ultraintense Laser Pulses. <i>Physical Review Letters</i> , 2006, 96, 145006.	7.8	140
13	Recollision-Induced Superradiance of Ionized Nitrogen Molecules. <i>Physical Review Letters</i> , 2015, 115, 133203.	7.8	131
14	Laser-driven platform for generation and characterization of strong quasi-static magnetic fields. <i>New Journal of Physics</i> , 2015, 17, 083051.	2.9	130
15	Terahertz Radiation Source in Air Based on Bifilamentation of Femtosecond Laser Pulses. <i>Physical Review Letters</i> , 2007, 99, 135002.	7.8	118
16	Target charging in short-pulse-laser-plasma experiments. <i>Physical Review E</i> , 2014, 89, 013102.	2.1	115
17	Short light pulse amplification and compression by stimulated Brillouin scattering in plasmas in the strong coupling regime. <i>Physics of Plasmas</i> , 2006, 13, 053110.	1.9	105
18	Skin effect and interaction of short laser pulses with dense plasmas. <i>Physical Review A</i> , 1990, 42, 7401-7412.	2.5	102

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19	Physics of giant electromagnetic pulse generation in short-pulse laser experiments. <i>Physical Review E</i> , 2015, 91, 043106.	2.1	102
20	Hot Electrons Transverse Refluxing in Ultraintense Laser-Solid Interactions. <i>Physical Review Letters</i> , 2010, 105, 015005.	7.8	97
21	Charge separation effects in solid targets and ion acceleration with a two-temperature electron distribution. <i>Physical Review E</i> , 2004, 69, 026411.	2.1	95
22	Experimental Evidence of Short Light Pulse Amplification Using Strong-Coupling Stimulated Brillouin Scattering in the Pump Depletion Regime. <i>Physical Review Letters</i> , 2010, 104, 025001.	7.8	91
23	A model of ultrashort laser pulse absorption in solid targets. <i>Physics of Plasmas</i> , 1996, 3, 360-367.	1.9	90
24	Particle-in-cell simulations of laser-plasma interaction for the shock ignition scenario. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 055013.	2.1	89
25	Divergence of laser-driven relativistic electron beams. <i>Physical Review E</i> , 2010, 82, 036405.	2.1	88
26	Nonlocal Electron Transport in a Plasma. <i>Physical Review Letters</i> , 1995, 75, 4405-4408.	7.8	86
27	Guiding of relativistic electron beams in dense matter by laser-driven magnetostatic fields. <i>Nature Communications</i> , 2018, 9, 102.	12.8	86
28	Interaction of a beam of fast electrons with solids. <i>Physics of Plasmas</i> , 2002, 9, 1416-1421.	1.9	85
29	Ion acceleration in expanding multispecies plasmas. <i>Physics of Plasmas</i> , 2004, 11, 3242-3250.	1.9	82
30	Coupling of shear flow and pressure gradient instabilities. <i>Journal of Geophysical Research</i> , 1997, 102, 9639-9650.	3.3	78
31	Ion acceleration in short-laser-pulse interaction with solid foils. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, B869-B877.	2.1	76
32	Study of Ultraintense Laser-Produced Fast-Electron Propagation and Filamentation in Insulator and Metal Foil Targets by Optical Emission Diagnostics. <i>Physical Review Letters</i> , 2006, 96, 125002.	7.8	75
33	Laser Smoothing and Imprint Reduction with a Foam Layer in the Multikilojoule Regime. <i>Physical Review Letters</i> , 2009, 102, 195005.	7.8	73
34	Ablation Pressure Driven by an Energetic Electron Beam in a Dense Plasma. <i>Physical Review Letters</i> , 2012, 109, 255004.	7.8	73
35	Nuclear reactions triggered by laser-accelerated high-energy ions. <i>Journal of Experimental and Theoretical Physics</i> , 1999, 88, 1137-1142.	0.9	68
36	Fast-electron transport and induced heating in aluminum foils. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	68

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37	Heating model for metals irradiated by a subpicosecond laser pulse. <i>Physical Review B</i> , 2007, 75, .	3.2	67
38	Saturation of stimulated Raman scattering by Langmuir and ionâ€acoustic wave coupling. <i>Physics of Fluids B</i> , 1993, 5, 138-150.	1.7	66
39	Parallel electric fields in dispersive shear AlfvÃ©n waves in the dipolar magnetosphere. <i>Geophysical Research Letters</i> , 1999, 26, 3601-3604.	4.0	65
40	Dynamic model of target charging by short laser pulse interactions. <i>Physical Review E</i> , 2015, 92, 043107.	2.1	65
41	Enhanced inverse bremsstrahlung heating rates in a strong laser field. <i>Physics of Plasmas</i> , 2003, 10, 3385-3396.	1.9	64
42	Particle dynamics during adiabatic expansion of a plasma bunch. <i>Journal of Experimental and Theoretical Physics</i> , 2002, 95, 226-241.	0.9	63
43	Laser produced electromagnetic pulses: generation, detection and mitigation. <i>High Power Laser Science and Engineering</i> , 2020, 8, .	4.6	62
44	Interaction of crossed laser beams with plasmas. <i>Physics of Plasmas</i> , 1996, 3, 2215-2217.	1.9	60
45	Relativistic electron generation in interactions of a 30 TW laser pulse with a thin foil target. <i>Physical Review E</i> , 2002, 66, 066402.	2.1	59
46	Model and numerical simulations of the propagation and absorption of a short laser pulse in a transparent dielectric material: Blast-wave launch and cavity formation. <i>Physical Review B</i> , 2007, 76, .	3.2	59
47	Revisiting Nonlocal Electron-Energy Transport in Inertial-Fusion Conditions. <i>Physical Review Letters</i> , 2007, 98, 095002.	7.8	58
48	Laser-driven strong magnetostatic fields with applications to charged beam transport and magnetized high energy-density physics. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	58
49	Pair creation in collision of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math>-ray beams produced with high-intensity lasers. <i>Physical Review E</i> , 2016, 93, 013201.	2.1	57
50	Kinetic simulations of stimulated Raman backscattering and related processes for the shock-ignition approach to inertial confinement fusion. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	56
51	Laser plasma interaction studies in the context of shock ignitionâ€Transition from collisional to collisionless absorption. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	56
52	Compressible Rayleighâ€Taylor instabilities in supernova remnants. <i>Physics of Fluids</i> , 2004, 16, 4661-4670.	4.0	55
53	Lasing without population inversion in N2+. <i>APL Photonics</i> , 2019, 4, .	5.7	55
54	Quasi-mono-energetic ion acceleration from a homogeneous composite target by an intense laser pulse. <i>Physics of Plasmas</i> , 2006, 13, 122705.	1.9	54

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55	Laser-supported ionization wave in under-dense gases and foams. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	54
56	Auroral density fluctuations on dispersive field line resonances. <i>Journal of Geophysical Research</i> , 1999, 104, 4399-4410.	3.3	53
57	Nonlocal electron transport in laser heated plasmas. <i>Physics of Plasmas</i> , 1998, 5, 2742-2753.	1.9	51
58	Langmuir Decay Instability Cascade in Laser-Plasma Experiments. <i>Physical Review Letters</i> , 2002, 89, 045001.	7.8	51
59	Ion acceleration by femtosecond laser pulses in small multispecies targets. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	51
60	Optimization of laser-target interaction for proton acceleration. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	51
61	Comparison for non-local hydrodynamic thermal conduction models. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	51
62	Gigagauss-scale quasistatic magnetic field generation in a snail-shaped target. <i>Physical Review E</i> , 2015, 91, 043107.	2.1	51
63	Quasistationary magnetic field generation with a laser-driven capacitor-coil assembly. <i>Physical Review E</i> , 2017, 96, 023202.	2.1	51
64	Matter in ultrastrong laser fields. <i>Soviet Journal of Quantum Electronics</i> , 1992, 22, 289-325.	0.1	50
65	Fast saturation of the two-plasmon-decay instability for shock-ignition conditions. <i>Physical Review E</i> , 2012, 85, 016403.	2.1	50
66	Influence of Ion Mass on Laser-Energy Absorption and Synchrotron Radiation at Ultrahigh Laser Intensities. <i>Physical Review Letters</i> , 2013, 110, 215003.	7.8	50
67	Stimulated Brillouin and Raman scattering from a randomized laser beam in large inhomogeneous collisional plasmas. I. Experiment. <i>Physics of Plasmas</i> , 2000, 7, 4659-4668.	1.9	48
68	Laser-plasma interaction studies in the context of megajoule lasers for inertial fusion. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, B53-B67.	2.1	47
69	Unexpected Sensitivity of Nitrogen Ions Superradiant Emission on Pump Laser Wavelength and Duration. <i>Physical Review Letters</i> , 2017, 119, 203205.	7.8	47
70	Shear Alfvén waves on stretched magnetic field lines near midnight in Earth's magnetosphere. <i>Geophysical Research Letters</i> , 2000, 27, 3265-3268.	4.0	46
71	Short Intense Laser Pulse Collapse in Near-Critical Plasma. <i>Physical Review Letters</i> , 2013, 110, 085001.	7.8	46
72	Dense plasma heating and Gbar shock formation by a high intensity flux of energetic electrons. <i>Physics of Plasmas</i> , 2013, 20, 062705.	1.9	46

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73	Optical signatures of auroral arcs produced by field line resonances: comparison with satellite observations and modeling. <i>Annales Geophysicae</i> , 2003, 21, 933-945.	1.6	45
74	Low-Level Saturation of Brillouin Backscattering due to Cavity Formation in High-Intensity Laser-Plasma Interaction. <i>Physical Review Letters</i> , 2005, 94, 055005.	7.8	45
75	Plasma jets produced in a single laser beam interaction with a planar target. <i>Physics of Plasmas</i> , 2006, 13, 062701.	1.9	45
76	Controlling Fast-Electron-Beam Divergence Using Two Laser Pulses. <i>Physical Review Letters</i> , 2012, 109, 015001.	7.8	45
77	Resonant Instability of Laser Filaments in a Plasma. <i>Physical Review Letters</i> , 2000, 84, 278-281.	7.8	44
78	Review of ultrafast ion acceleration experiments in laser plasma at Max Born Institute. <i>Laser and Particle Beams</i> , 2007, 25, 347-363.	1.0	44
79	Plasma induced smoothing of a spatially incoherent laser beam and reduction of backward stimulated Brillouin scattering. <i>Physics of Plasmas</i> , 2001, 8, 1319.	1.9	43
80	Relativistic laser-matter interaction: from attosecond pulse generation to fast ignition. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B667-B675.	2.1	43
81	Experimental observations and modeling of nanoparticle formation in laser-produced expanding plasma. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	43
82	Effect of electron heating on self-induced transparency in relativistic-intensity laser-plasma interactions. <i>Physical Review E</i> , 2012, 86, 056404.	2.1	43
83	Time-resolved measurements of secondary Langmuir waves produced by the Langmuir decay instability in a laser-produced plasma. <i>Physics of Plasmas</i> , 1998, 5, 234-242.	1.9	42
84	Two-dimensional studies of stimulated Brillouin scattering, filamentation, and self-focusing instabilities of laser light in plasmas. <i>Physics of Fluids B</i> , 1993, 5, 3748-3764.	1.7	41
85	Quasihydrodynamic description of ion acoustic waves in a collisional plasma. <i>Physics of Plasmas</i> , 1994, 1, 2419-2429.	1.9	41
86	Coupled hydrodynamic model for laser-plasma interaction and hot electron generation. <i>Physical Review E</i> , 2015, 92, 041101.	2.1	41
87	Nonlinear standing shear Alfvén waves in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 1994, 99, 21291.	3.3	40
88	Strong kinetic effects in cavity-induced low-level saturation of stimulated Brillouin backscattering for high-intensity laser-plasma interaction. <i>Physics of Plasmas</i> , 2005, 12, 043101.	1.9	40
89	Experimental evidence of foam homogenization. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	40
90	Plasma solenoid driven by a laser beam carrying an orbital angular momentum. <i>Physical Review E</i> , 2018, 98, .	2.1	39

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91	Saturation of backward stimulated Raman scattering and enhancement of laser light scattering in plasmas. <i>Physics of Plasmas</i> , 1995, 2, 256-273.	1.9	38
92	Stimulated Brillouin scattering reflectivity in the case of a spatially smoothed laser beam interacting with an inhomogeneous plasma. <i>Physics of Plasmas</i> , 1997, 4, 2658-2669.	1.9	38
93	Electron kinetic effects in standing shear Alfvén waves in the dipolar magnetosphere. <i>Physics of Plasmas</i> , 2000, 7, 2630-2645.	1.9	38
94	Compression phase study of the HiPER baseline target. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 025007.	2.1	38
95	Experimental Investigation of the Collective Raman Scattering of Multiple Laser Beams in Inhomogeneous Plasmas. <i>Physical Review Letters</i> , 2016, 117, 235002.	7.8	38
96	Nonlinear dynamics of standing shear Alfvén waves. <i>Physics of Plasmas</i> , 1995, 2, 501-515.	1.9	37
97	Ponderomotive saturation of magnetospheric field line resonances. <i>Geophysical Research Letters</i> , 1995, 22, 1741-1744.	4.0	37
98	Modeling of a stimulated Brillouin scattering experiment with statistical distribution of speckles. <i>Physics of Plasmas</i> , 1996, 3, 3777-3785.	1.9	37
99	Modeling of radiation losses in ultrahigh power laser-matter interaction. <i>Physical Review E</i> , 2012, 86, 036401.	2.1	37
100	Nonlinear field line resonances: Dispersive effects. <i>Physics of Plasmas</i> , 1998, 5, 3565-3574.	1.9	36
101	Amplification of transition-Cherenkov terahertz radiation of femtosecond filament in air. <i>Applied Physics Letters</i> , 2008, 93, 051108.	3.3	36
102	Effect of the speckle self-focusing on the stationary stimulated Brillouin scattering reflectivity from a randomized laser beam in an inhomogeneous plasma. <i>Physics of Plasmas</i> , 1997, 4, 4369-4381.	1.9	35
103	Discrete Auroral Arcs and Nonlinear Dispersive Field Line Resonances. <i>Geophysical Research Letters</i> , 1999, 26, 663-666.	4.0	35
104	Relativistic High-Current Electron-Beam Stopping-Power Characterization in Solids and Plasmas: Collisional Versus Resistive Effects. <i>Physical Review Letters</i> , 2012, 109, 255002.	7.8	35
105	Parametric plasma turbulence. <i>Physics Reports</i> , 1986, 135, 1-46.	25.6	34
106	Magnetospheric field-line resonances: Ground-based observations and modeling. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	34
107	The L4n laser beamline of the P3-installation: Towards high-repetition rate high-energy density physics at ELI-Beamlines. <i>Matter and Radiation at Extremes</i> , 2021, 6, .	3.9	34
108	Second harmonic generation in a laser plasma (review). <i>Soviet Journal of Quantum Electronics</i> , 1979, 9, 1081-1102.	0.1	33

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109	Effects of plasma long-wavelength hydrodynamical fluctuations on stimulated Brillouin scattering. <i>Physics of Plasmas</i> , 1996, 3, 1689-1699.	1.9	33
110	Nonlinear stimulated Brillouin scattering in inhomogeneous plasmas. <i>Physics of Plasmas</i> , 2000, 7, 4227.	1.9	33
111	Ion acceleration during adiabatic plasma expansion: Renormalization group approach. <i>JETP Letters</i> , 2001, 74, 10-14.	1.4	33
112	Kinetic theory of ion acoustic waves in a plasma with collisional electrons. <i>Physical Review E</i> , 1995, 52, 6759-6776.	2.1	32
113	Parallel potential driven by a kinetic Alfvén wave on geomagnetic field lines. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 11-1.	3.3	32
114	X-Ray Amplification from a Raman Free-Electron Laser. <i>Physical Review Letters</i> , 2012, 109, 244802.	7.8	32
115	Development of the PETawatt Aquitaine Laser system and new perspectives in physics. <i>Physica Scripta</i> , 2014, T161, 014016.	2.5	32
116	Time evolution of stimulated Raman scattering and two-plasmon decay at laser intensities relevant for shock ignition in a hot plasma. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	4.6	32
117	Theory of filamentation instability and stimulated Brillouin scattering with nonlocal hydrodynamics. <i>Physics of Plasmas</i> , 2000, 7, 1511-1519.	1.9	31
118	High order resolution of the Maxwell-Fokker-Planck-Landau model intended for ICF applications. <i>Journal of Computational Physics</i> , 2009, 228, 5072-5100.	3.8	31
119	Coherent Forward Stimulated-Brillouin Scattering of a Spatially Incoherent Laser Beam in a Plasma and Its Effect on Beam Spray. <i>Physical Review Letters</i> , 2009, 102, 155001.	7.8	31
120	Laser-plasma interaction studies in the context of shock ignition: the regime dominated by parametric instabilities. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 095002.	2.1	31
121	Studies of laser-plasma interaction physics with low-density targets for direct-drive inertial confinement fusion on the Shenguang III prototype. <i>Matter and Radiation at Extremes</i> , 2021, 6, .	3.9	31
122	Observation of the plasma channel dynamics and Coulomb explosion in the interaction of a high-intensity laser pulse with a He gas jet. <i>JETP Letters</i> , 1997, 66, 828-834.	1.4	30
123	Effects of Spatial and Temporal Smoothing on Stimulated Brillouin Scattering in the Independent-Hot-Spot Model Limit. <i>Physical Review Letters</i> , 2000, 85, 4526-4529.	7.8	30
124	Enhanced Spatiotemporal Laser-Beam Smoothing in Gas-Jet Plasmas. <i>Physical Review Letters</i> , 2003, 90, 075002.	7.8	30
125	Electron Kinetic Effects in the Nonlinear Evolution of a Driven Ion-Acoustic Wave. <i>Physical Review Letters</i> , 2005, 94, 055003.	7.8	30
126	Studies of laser-plasma interaction physics with low-density targets for direct-drive inertial confinement schemes. <i>Matter and Radiation at Extremes</i> , 2019, 4, .	3.9	30

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127	Finite element modeling of nonlinear dispersive field line resonances: Trapped shear Alfvén waves inside field-aligned density structures. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	29
128	Studies of supersonic, radiative plasma jet interaction with gases at the Prague Asterix Laser System facility. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	29
129	Laser-driven quasimonoenergetic proton burst from water spray target. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	29
130	Prepulse suppression and optimization of backward Raman amplification with a chirped pump laser beam. <i>Physical Review E</i> , 2013, 87, 043109.	2.1	29
131	Stimulated Brillouin and Raman scattering from a randomized laser beam in large inhomogeneous collisional plasmas. II. Model description and comparison with experiments. <i>Physics of Plasmas</i> , 2001, 8, 1636-1649.	1.9	28
132	Formation of nanocavities in dielectrics: A self-consistent modeling. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	28
133	Towards modeling of nonlinear laser-plasma interactions with hydrocodes: The thick-ray approach. <i>Physical Review E</i> , 2014, 89, 033101.	2.1	28
134	Femtosecond laser pulse train interaction with dielectric materials. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	28
135	Thomson scattering from ion acoustic waves in laser plasmas. <i>Physical Review E</i> , 1998, 57, 3383-3391.	2.1	27
136	Modeling of the cross-beam energy transfer with realistic inertial-confinement-fusion beams in a large-scale hydrocode. <i>Physical Review E</i> , 2015, 91, 013102.	2.1	27
137	Progress in understanding the role of hot electrons for the shock ignition approach to inertial confinement fusion. <i>Nuclear Fusion</i> , 2019, 59, 032012.	3.5	27
138	Electromagnetic solitons produced by stimulated Brillouin pulsations in plasmas. <i>Physics of Plasmas</i> , 2005, 12, 112107.	1.9	26
139	Effect of the plasma-generated magnetic field on relativistic electron transport. <i>Physical Review E</i> , 2011, 84, 016402.	2.1	26
140	Reduced entropic model for studies of multidimensional nonlocal transport in high-energy-density plasmas. <i>Physics of Plasmas</i> , 2015, 22, 082706.	1.9	26
141	Theory of terahertz emission from femtosecond-laser-induced microplasmas. <i>Physical Review E</i> , 2016, 94, 063202.	2.1	26
142	Collisionless Shocks Driven by Supersonic Plasma Flows with Self-Generated Magnetic Fields. <i>Physical Review Letters</i> , 2019, 123, 055002.	7.8	26
143	Heating of solid targets by subpicosecond laser pulses. <i>Physical Review A</i> , 1992, 46, 7810-7814.	2.5	25
144	Parametric instability of a driven ion-acoustic wave. <i>Physics of Plasmas</i> , 2005, 12, 092101.	1.9	25

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145	Classical radiation effects on relativistic electrons in ultraintense laser fields with circular polarization. <i>New Journal of Physics</i> , 2012, 14, 073034.	2.9	25
146	Two-dimensional simulations of laser-plasma interaction and hot electron generation in the context of shock-ignition research. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 055010.	2.1	25
147	From ICF to laboratory astrophysics: ablative and classical Rayleigh-Taylor instability experiments in turbulent-like regimes. <i>Nuclear Fusion</i> , 2019, 59, 032002.	3.5	25
148	Energetic μ -particle sources produced through proton-boron reactions by high-energy high-intensity laser beams. <i>Physical Review E</i> , 2021, 103, 053202.	2.1	25
149	Three-dimensional analysis of the power transfer between crossed laser beams. <i>Physics of Plasmas</i> , 1998, 5, 1142-1147.	1.9	24
150	Laser-triggered ion acceleration from a double-layer foil. <i>Physics of Plasmas</i> , 2009, 16, 043107.	1.9	24
151	A reduced model for relativistic electron beam transport in solids and dense plasmas. <i>New Journal of Physics</i> , 2014, 16, 073014.	2.9	24
152	Hydrodynamic modeling of laser interaction with micro-structured targets. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 095004.	2.1	24
153	Stimulated Brillouin scattering and ponderomotive self-focusing from a single laser hot spot. <i>Physics of Plasmas</i> , 1995, 2, 1712-1724.	1.9	23
154	Interaction of two neighboring laser beams taking into account the effects of plasma hydrodynamics. <i>Physics of Plasmas</i> , 1997, 4, 2670-2680.	1.9	23
155	Studies of the laser filament instability in a semicollisional plasma. <i>Physics of Plasmas</i> , 2003, 10, 3545-3553.	1.9	23
156	Radiation hydrodynamic theory of double ablation fronts in direct-drive inertial confinement fusion. <i>Physics of Plasmas</i> , 2009, 16, 082704.	1.9	23
157	Liquid-vapor phase transition and droplet formation by subpicosecond laser heating. <i>Physical Review B</i> , 2009, 79, .	3.2	23
158	MeV negative ion generation from ultra-intense laser interaction with a water spray. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	23
159	Enhanced Relativistic-Electron-Beam Energy Loss in Warm Dense Aluminum. <i>Physical Review Letters</i> , 2015, 114, 095004.	7.8	23
160	Acceleration of collimated 45-MeV protons by collisionless shocks driven in low-density, large-scale gradient plasmas by a 1020-W/cm ² , 1- μ m laser. <i>Scientific Reports</i> , 2017, 7, 16463.	3.3	23
161	Ion wave response to intense laser beams in underdense plasmas. <i>Physics of Plasmas</i> , 1997, 4, 4333-4346.	1.9	22
162	Localization of Stimulated Brillouin Scattering in Random Phase Plate Speckles. <i>Physical Review Letters</i> , 1998, 80, 1900-1903.	7.8	22

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163	Comment on "Generation of Electromagnetic Pulses from Plasma Channels Induced by Femtosecond Light Strings", Physical Review Letters, 2002, 89, 209301.	7.8	22
164	Nonlinear acceleration of dispersive effects in field line resonances. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	22
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