

Vladimir T Tikhonchuk

List of Publications by Year in descending order

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Version: 2024-02-01

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	Coherently controlled ionization of gases by three-color femtosecond laser pulses. <i>Physical Review A</i> , 2022, 105, .	2.5	3
2	Modeling of electron nonlocal transport in plasmas using artificial neural networks. <i>Physical Review E</i> , 2022, 105, .	2.1	3
3	Raman scattering of a laser beam carrying an orbital angular momentum. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	6
4	Analysis of a kinetic model for electron heat transport in inertial confinement fusion plasmas. <i>Physics of Plasmas</i> , 2022, 29, 062301.	1.9	6
5	Kinetic phenomena of helical plasma waves with orbital angular momentum. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	5
6	Design, installation and commissioning of the ELI-Beamlines high-power, high-repetition rate HAPLS laser beam transport system to P3. <i>High Power Laser Science and Engineering</i> , 2021, 9, .	4.6	20
7	Bremsstrahlung emission and plasma characterization driven by moderately relativistic laser-plasma interactions. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 035004.	2.1	13
8	Theory of femtosecond strong field ion excitation and subsequent lasing in N^{2+} . <i>New Journal of Physics</i> , 2021, 23, 023035.	2.9	10
9	Over-critical sharp-gradient plasma slab produced by the collision of laser-induced blast-waves in a gas jet: Application to high-energy proton acceleration. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	14
10	Radiative characterization of supersonic jets and shocks in a laser-plasma experiment. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 045026.	2.1	2
11	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
12	Time-resolved study of laser emission in nitrogen gas pumped by two near IR femtosecond laser pulses. <i>Optics Letters</i> , 2021, 46, 1253.	3.3	1
13	Multi-dimensional kinetic simulations of laser radiation absorption and electron acceleration in inhomogeneous underdense plasma. <i>Nuclear Fusion</i> , 2021, 61, 066014.	3.5	8
14	Analytic solutions for delocalized heat transport. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 075005.	2.1	3
15	Energetic $\mu\pm$ -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
16	Weibel instability mediated laser hole boring and ion acceleration in an electrostatic shock. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 085013.	2.1	0
17	Modeling of High-Energy Particles and Radiation Production for Multipetawatt Laser Facilities. <i>Laser and Particle Beams</i> , 2021, 2021, .	1.0	2
18	SRS-SBS competition and nonlinear laser energy absorption in a high temperature plasma. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 115016.	2.1	3

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19	Enhanced ion acceleration using the high-energy petawatt PETAL laser. <i>Matter and Radiation at Extremes</i> , 2021, 6, .	3.9	18
20	Inertial Confinement Fusion – Key Elements of Plasma Physics. , 2021, , 686-712.		0
21	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
22	Sources and space-time distribution of the electromagnetic pulses in experiments on inertial confinement fusion and laser-plasma acceleration. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200022.	3.4	15
23	Collision between Radiative and Adiabatic Supersonic Flows. <i>Astrophysical Journal</i> , 2021, 920, 113.	4.5	2
24	Self-focusing of a spatially modulated beam within the paraxial complex geometrical optics framework in low-density plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 125019.	2.1	2
25	Laser-driven collisionless shock acceleration of protons from gas jets tailored by one or two nanosecond beams. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	5
26	Comment to the paper I. Papp et al.: Laser wake field collider [<i>Phys. Lett. A</i> 396 (2021) 127245]. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 424, 127845.	2.1	0
27	Modeling of the processes of ionization and excitation of nitrogen molecules by short and intense laser pulses. <i>Physical Review A</i> , 2021, 104, .	2.5	7
28	Experimental investigation of the collective stimulated Brillouin and Raman scattering of multiple laser beams in inertial confinement fusion experiments. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 014024.	2.1	10
29	Numerical study of momentum and energy transfer in the interaction of a laser pulse carrying orbital angular momentum with electrons. <i>High Energy Density Physics</i> , 2020, 37, 100863.	1.5	8
30	Preliminary results from the LMJ-PETAL experiment on hot electrons characterization in the context of shock ignition. <i>High Energy Density Physics</i> , 2020, 36, 100796.	1.5	19
31	Progress and opportunities for inertial fusion energy in Europe. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20200013.	3.4	12
32	Nonlinear Landau damping of plasma waves with orbital angular momentum. <i>Physical Review E</i> , 2020, 102, 033208.	2.1	11
33	Gain of electron orbital angular momentum in a direct laser acceleration process. <i>Physical Review E</i> , 2020, 101, 053202.	2.1	18
34	Terahertz Radiation from a Longitudinal Electric Field Biased Femtosecond Filament in Air*. <i>Chinese Physics Letters</i> , 2020, 37, 065201.	3.3	7
35	Laser produced electromagnetic pulses: generation, detection and mitigation. <i>High Power Laser Science and Engineering</i> , 2020, 8, .	4.6	62
36	Electromagnetic pulse emission from target holders during short-pulse laser interactions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	11

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37	Evidence of noncollisional femtosecond laser energy deposition in dielectric materials. <i>Physical Review B</i> , 2020, 102, .	3.2	7
38	Laser intensity scaling of the magnetic field from a laser-driven coil target. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	11
39	Backward lasing of singly ionized nitrogen ions pumped by femtosecond laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	10
40	Direct observation of ultrafast electrons generated by high-intensity laser-matter interaction. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	4
41	Characterization of residual inhomogeneities in a plasma created by laser ionization of a low-density foam. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 035013.	2.1	8
42	Proton deflectometry of a capacitor coil target along two axes. <i>High Power Laser Science and Engineering</i> , 2020, 8, .	4.6	11
43	Mitigation of strong electromagnetic pulses on the LMJ-PETAL facility. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
44	Target Charging, Strong Electromagnetic Pulse Emission and Proton Acceleration from Thin Foils at 10 TW IPPLM Femtosecond Laser Facility. <i>Acta Physica Polonica A</i> , 2020, 138, 593-600.	0.5	2
45	Quantum erasing of laser emission in N^{2+} . <i>Optics Letters</i> , 2020, 45, 4670.	3.3	9
46	Mildly relativistic collisionless shock formed by magnetic piston. <i>Physics of Plasmas</i> , 2020, 27, 122106.	1.9	3
47	Physics of chromatic focusing, post-acceleration and bunching of laser-driven proton beams in helical coil targets. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 125019.	2.1	8
48	Collective absorption of laser radiation in plasma at sub-relativistic intensities. , 2020, , .		0
49	Physics of laser plasma interaction and particle transport in the context of inertial confinement fusion. <i>Nuclear Fusion</i> , 2019, 59, 032001.	3.5	16
50	Collective absorption of laser radiation in plasma at sub-relativistic intensities. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	4.6	10
51	Collisionless Shocks Driven by Supersonic Plasma Flows with Self-Generated Magnetic Fields. <i>Physical Review Letters</i> , 2019, 123, 055002.	7.8	26
52	Failed self-reformation of a sub-critical fast magnetosonic shock in collisionless plasma. <i>Plasma Research Express</i> , 2019, 1, 035001.	0.9	3
53	Kinetic plasma waves carrying orbital angular momentum. <i>Physical Review E</i> , 2019, 100, 013204.	2.1	14
54	Modeling of laser ponderomotive self-focusing in plasma within the paraxial complex geometrical optics approach. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 115009.	2.1	4

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55	Time evolution of stimulated Raman scattering and two-plasmon decay at laser intensities relevant for shock ignition in a hot plasma. High Power Laser Science and Engineering, 2019, 7, .	4.6	32
56	Modeling the solid-to-plasma transition for laser imprinting in direct-drive inertial confinement fusion. Physical Review E, 2019, 100, 033201.	2.1	18
57	Long-duration direct drive hydrodynamics experiments on the National Ignition Facility: Platform development and numerical modeling with CHIC. Physics of Plasmas, 2019, 26, 082703.	1.9	4
58	Characterization of suprathermal electrons inside a laser accelerated plasma via highly-resolved K α -emission. Nature Communications, 2019, 10, 4212.	12.8	22
59	Laboratory investigation of particle acceleration and magnetic field compression in collisionless colliding fast plasma flows. Communications Physics, 2019, 2, .	5.3	14
60	Studies of laser-plasma interaction physics with low-density targets for direct-drive inertial confinement schemes. Matter and Radiation at Extremes, 2019, 4, .	3.9	30
61	Laser-driven strong shocks with infrared lasers at intensity of 10 ¹⁶ W/cm ² . Physics of Plasmas, 2019, 26, 112708.	1.9	18
62	Lasing without population inversion in N ₂ ⁺ . APL Photonics, 2019, 4, .	5.7	55
63	Application of harmonics imaging to focal spot measurements of the "PETAL" laser. Journal of Applied Physics, 2019, 126, .	2.5	5
64	Twisted Kinetic Plasma Waves. Journal of Russian Laser Research, 2019, 40, 419-428.	0.6	5
65	Proton acceleration by collisionless shocks using a supersonic H ₂ gas-jet target and high-power infrared laser pulses. Physics of Plasmas, 2019, 26, .	1.9	22
66	From ICF to laboratory astrophysics: ablative and classical Rayleigh-Taylor instability experiments in turbulent-like regimes. Nuclear Fusion, 2019, 59, 032002.	3.5	25
67	Stochastic electron heating in an interference field of several laser pulses of a picosecond duration. Plasma Physics and Controlled Fusion, 2019, 61, 025015.	2.1	5
68	Progress in understanding the role of hot electrons for the shock ignition approach to inertial confinement fusion. Nuclear Fusion, 2019, 59, 032012.	3.5	27
69	Laser without population inversion of nitrogen ions pumped by femtosecond pulses. , 2019, , .		1
70	Mapping the Damping Dynamics of Mega-Ampere Electron Pulses Inside a Solid. Physical Review Letters, 2018, 120, 065001.	7.8	8
71	Guiding of relativistic electron beams in dense matter by laser-driven magnetostatic fields. Nature Communications, 2018, 9, 102.	12.8	86
72	Long-duration planar direct-drive hydrodynamics experiments on the NIF. Plasma Physics and Controlled Fusion, 2018, 60, 014012.	2.1	14

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73	Tree code for collision detection of large numbers of particles applied to the Breit-Wheeler process. <i>Journal of Computational Physics</i> , 2018, 355, 582-596.	3.8	6
74	33 Entropic model for real-time dose calculation. <i>Physica Medica</i> , 2018, 56, 20.	0.7	0
75	Plasma solenoid driven by a laser beam carrying an orbital angular momentum. <i>Physical Review E</i> , 2018, 98, .	2.1	39
76	Experimental demonstration of an electromagnetic pulse mitigation concept for a laser driven proton source. <i>Review of Scientific Instruments</i> , 2018, 89, 103301.	1.3	9
77	Thin target charging in short laser pulse interactions. <i>Physical Review E</i> , 2018, 98, .	2.1	17
78	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
79	Impact of the electron to ion mass ratio on unstable systems in particle-in-cell simulations. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	5
80	Real Time Modelling of The Dose Distribution Adapted to The Present Treatment Requirements (TG186). <i>Brachytherapy</i> , 2018, 17, S22.	0.5	0
81	Effect of differential cross section in Breit-Wheeler pair production. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 104001.	2.1	8
82	Whispering Gallery Effect in Relativistic Optics. <i>JETP Letters</i> , 2018, 107, 351-354.	1.4	7
83	Stimulated Raman scattering in the relativistic regime in near-critical plasmas. <i>Physical Review E</i> , 2017, 95, 013208.	2.1	9
84	Experimental observation of parametric instabilities at laser intensities relevant for shock ignition. <i>Europhysics Letters</i> , 2017, 117, 35001.	2.0	21
85	Magnetization of laser-produced plasma in a chiral hollow target. <i>New Journal of Physics</i> , 2017, 19, 033023.	2.9	10
86	A New Entropic Algorithm to Measure the Impact of Magnetic Field on Dose Distribution: Application to MRI-Guided Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, E659.	0.8	0
87	Fast 3D Modeling of Dose Distribution in Brachytherapy Adapted to Recommendations of International Organizations of Medical Practice. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, E703.	0.8	0
88	Isochoric heating and strong blast wave formation driven by fast electrons in solid-density targets. <i>New Journal of Physics</i> , 2017, 19, 103005.	2.9	11
89	Efficient post-acceleration of protons in helical coil targets driven by sub-ps laser pulses. <i>Scientific Reports</i> , 2017, 7, 10891.	3.3	14
90	Energetic ion bunches produced in under-dense plasmas by an intense laser pulse (Conference) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62</i>		

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91	EP-1831: Entropic Boltzmann closure for MRI-guided radiotherapy. <i>Radiotherapy and Oncology</i> , 2017, 123, S1002-S1003.	0.6	0
92	Gated ion spectrometer for spectroscopy of neutral particles. <i>Review of Scientific Instruments</i> , 2017, 88, 083303.	1.3	1
93	Quasistationary magnetic field generation with a laser-driven capacitor-coil assembly. <i>Physical Review E</i> , 2017, 96, 023202.	2.1	51
94	The role of hot electrons in the dynamics of a laser-driven strong converging shock. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	17
95	Acceleration of collimated 45 MeV protons by collisionless shocks driven in low-density, large-scale gradient plasmas by a 1020 W/cm ² , 1 Å laser. <i>Scientific Reports</i> , 2017, 7, 16463.	3.3	23
96	Relativistic laser plasma interactions. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	1
97	Unexpected Sensitivity of Nitrogen Ions Superradiant Emission on Pump Laser Wavelength and Duration. <i>Physical Review Letters</i> , 2017, 119, 203205.	7.8	47
98	Excitation of nitrogen molecular ions in a strong laser field by electron recollisions. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	7
99	Strong electromagnetic pulses generated in high-intensity short-pulse laser interactions with thin foil targets. <i>Laser and Particle Beams</i> , 2017, 35, 677-686.	1.0	14
100	Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. <i>Physical Review Letters</i> , 2017, 118, 205001.	7.8	11
101	Introduction of external magnetic fields in entropic moment modelling for radiotherapy. <i>Physica Medica</i> , 2017, 42, 313-318.	0.7	3
102	High performance modelling of the transport of energetic particles for photon radiotherapy. <i>Physica Medica</i> , 2017, 42, 305-312.	0.7	5
103	Electron-positron pairs beaming in the Breit-Wheeler process. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014024.	2.1	12
104	Enhanced hot-electron production and strong-shock generation in hydrogen-rich ablators for shock ignition. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	19
105	2. Entropic closure for MRI-guided radiotherapy. <i>Physica Medica</i> , 2017, 44, 1-2.	0.7	2
106	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
107	Crossed beam energy transfer: Assessment of the paraxial complex geometrical optics approach versus a time-dependent paraxial method to describe experimental results. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	20
108	Modeling of energy transfer between two crossing smoothed laser beams in a plasma with flow profile. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012096.	0.4	2

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109	Experimental demonstration of laser imprint reduction using underdense foams. <i>Physics of Plasmas</i> , 2016, 23, 042701.	1.9	21
110	Influence of laser induced hot electrons on the threshold for shock ignition of fusion reactions. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	20
111	Influence of non-collisional laser heating on the electron dynamics in dielectric materials. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 485103.	2.8	9
112	The preplasma effect on the properties of the shock wave driven by a fast electron beam. <i>Physics of Plasmas</i> , 2016, 23, 082702.	1.9	4
113	Theory of terahertz emission from femtosecond-laser-induced microplasmas. <i>Physical Review E</i> , 2016, 94, 063202.	2.1	26
114	Experimental and Monte Carlo absolute characterization of a medical electron beam using a magnetic spectrometer. <i>Radiation Measurements</i> , 2016, 86, 16-23.	1.4	4
115	Hydrodynamic modeling of laser interaction with micro-structured targets. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 095004.	2.1	24
116	Pair creation in collision of γ -ray beams produced with high-intensity lasers. <i>Physical Review E</i> , 2016, 93, 013201.	2.1	57
117	New source of MeV negative ion and neutral atom beams. <i>Review of Scientific Instruments</i> , 2016, 87, 02B134.	1.3	2
118	Extension of a reduced entropic model of electron transport to magnetized nonlocal regimes of high-energy-density plasmas. <i>Laser and Particle Beams</i> , 2016, 34, 412-425.	1.0	7
119	Classical transport theory for the collisional electronic α -particle heating. <i>Physical Review E</i> , 2016, 93, 013201.	2.6	2
120	Physics of laser-plasma interaction for shock ignition of fusion reactions. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 014018.	2.1	7
121	Suppressing the numerical Cherenkov radiation in the Yee numerical scheme. <i>Journal of Computational Physics</i> , 2016, 305, 664-676.	3.8	8
122	Superradiance of Air Plasma Induced by Electron Recollision. , 2016, , .		0
123	Coupled hydrodynamic model for laser-plasma interaction and hot electron generation. <i>Physical Review E</i> , 2015, 92, 041101.	2.1	41
124	Dynamic model of target charging by short laser pulse interactions. <i>Physical Review E</i> , 2015, 92, 043107.	2.1	65
125	Recollision-Induced Superradiance of Ionized Nitrogen Molecules. <i>Physical Review Letters</i> , 2015, 115, 133203.	7.8	131
126	Dynamics and structure of self-generated magnetic fields on solids following high contrast, high intensity laser irradiation. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	18

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127	Femtosecond laser pulse train interaction with dielectric materials. Applied Physics Letters, 2015, 107, .	3.3	28
128	Reduced entropic model for studies of multidimensional nonlocal transport in high-energy-density plasmas. Physics of Plasmas, 2015, 22, 082706.	1.9	26
129	Dense plasma heating and shock wave generation by a beam of fast electrons. Physics of Plasmas, 2015, 22, 102704.	1.9	11
130	Comment on "Temperature dependence of pump coupling in two-plasmon decay instability of an electromagnetic wave in homogeneous fluid plasmas" [Phys. Plasmas 22, 084503 (2015)]. Physics of Plasmas, 2015, 22, 104701.	1.9	2
131	Laser-driven platform for generation and characterization of strong quasi-static magnetic fields. New Journal of Physics, 2015, 17, 083051.	2.9	130
132	Deterministic model for the transport of energetic particles: Application in the electron radiotherapy. Physica Medica, 2015, 31, 912-921.	0.7	16
133	Limits of the M1 and M2 angular moments models for kinetic plasma physics studies. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 335501.	2.1	3
134	Modeling of the cross-beam energy transfer with realistic inertial-confinement-fusion beams in a large-scale hydrocode. Physical Review E, 2015, 91, 013102.	2.1	27
135	The role of electron heating in electromagnetic collisionless shock formation. High Energy Density Physics, 2015, 17, 175-182.	1.5	4
136	A novel platform to study magnetized high-velocity collisionless shocks. High Energy Density Physics, 2015, 17, 190-197.	1.5	14
137	Physics of giant electromagnetic pulse generation in short-pulse laser experiments. Physical Review E, 2015, 91, 043106.	2.1	102
138	Gigagauss-scale quasistatic magnetic field generation in a snail-shaped target. Physical Review E, 2015, 91, 043107.	2.1	51
139	Enhanced Relativistic-Electron-Beam Energy Loss in Warm Dense Aluminum. Physical Review Letters, 2015, 114, 095004.	7.8	23
140	Effect of nonthermal electrons on the shock formation in a laser driven plasma. Physics of Plasmas, 2015, 22, 042705.	1.9	15
141	A compact broadband ion beam focusing device based on laser-driven megagauss thermoelectric magnetic fields. Review of Scientific Instruments, 2015, 86, 043502.	1.3	5
142	Longitudinal laser ion acceleration in low density targets: experimental optimization on the Titan laser facility and numerical investigation of the ultra-high intensity limit. , 2015, , .		2
143	Heating a plasma by a broadband stream of fast electrons: Fast ignition, shock ignition, and Cbar shock wave applications. Journal of Experimental and Theoretical Physics, 2015, 121, 529-540.	0.9	3
144	TNSA-like plasmas collision in an ambient magnetic field as a route to astrophysical collisionless shock observation in a laboratory. High Energy Density Physics, 2015, 17, 183-189.	1.5	2

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145	Collisionless plasma interpenetration in a strong magnetic field for laboratory astrophysics experiments. <i>Physics of Plasmas</i> , 2014, 21, 022117.	1.9	16
146	Ion kinetic effects on the ignition and burn of inertial confinement fusion targets: A multi-scale approach. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	14
147	Progress in indirect and direct-drive planar experiments on hydrodynamic instabilities at the ablation front. <i>Physics of Plasmas</i> , 2014, 21, 122702.	1.9	18
148	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
149	Fokker-Planck kinetic modeling of suprathermal $\hat{\pm}$ -particles in a fusion plasma. <i>Journal of Computational Physics</i> , 2014, 278, 416-444.	3.8	16
150	Controlling the fast electron divergence in a solid target with multiple laser pulses. <i>Physical Review E</i> , 2014, 90, 063108.	2.1	6
151	Microjet formation and hard x-ray production from a liquid metal target irradiated by intense femtosecond laser pulses. <i>Physics of Plasmas</i> , 2014, 21, 093103.	1.9	5
152	$\langle i \rangle \hat{\beta} \langle /i \rangle$ -ray generation enhancement by the charge separation field in laser-target interaction in the radiation dominated regime. <i>Physics of Plasmas</i> , 2014, 21, 123120.	1.9	15
153	Gaussian beam evolution in nonlinear inhomogeneous plasma. <i>Journal of Plasma Physics</i> , 2014, 80, 197-214.	2.1	0
154	Study of laser induced plasma grating dynamics in gases. <i>Optics Communications</i> , 2014, 312, 35-42.	2.1	16
155	Unraveling resistive versus collisional contributions to relativistic electron beam stopping power in cold-solid and in warm-dense plasmas. <i>Physics of Plasmas</i> , 2014, 21, 033101.	1.9	15
156	Deleterious effects of nonthermal electrons in shock ignition concept. <i>Physical Review E</i> , 2014, 89, 033107.	2.1	21
157	Towards modeling of nonlinear laser-plasma interactions with hydrocodes: The thick-ray approach. <i>Physical Review E</i> , 2014, 89, 033101.	2.1	28
158	Target charging in short-pulse-laser-plasma experiments. <i>Physical Review E</i> , 2014, 89, 013102.	2.1	115
159	Investigation of longitudinal proton acceleration in exploded targets irradiated by intense short-pulse laser. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	18
160	Numerical study of positron production with short-pulse high-intensity lasers. <i>Laser and Particle Beams</i> , 2014, 32, 171-176.	1.0	6
161	Development of the PETawatt Aquitaine Laser system and new perspectives in physics. <i>Physica Scripta</i> , 2014, T161, 014016.	2.5	32
162	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

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163	All-Optical Raman XFEL, Based on the Electron Emission in a Transverse High Intensity Optical Lattice. Springer Proceedings in Physics, 2014, , 13-18.	0.2	0
164	Finite Mach number spherical shock wave, application to shock ignition. Physics of Plasmas, 2013, 20, 082702.	1.9	10
165	Relativistic high-current electron beams in dense plasmas in the context of the fast ignition of inertially confined fusion targets. , 2013, , .		0
166	Prepulse induced microstructured plasma with melted and solid targets: formation, properties & prospects to relativistic laser-plasma interaction. Proceedings of SPIE, 2013, , .	0.8	1
167	Investigation of laser ion acceleration in low-density targets using exploded foils. Plasma Physics and Controlled Fusion, 2013, 55, 124025.	2.1	19
168	Optimization of laser-target interaction for proton acceleration. Physics of Plasmas, 2013, 20, .	1.9	51
169	Comparison for non-local hydrodynamic thermal conduction models. Physics of Plasmas, 2013, 20, .	1.9	51
170	Numerical simulations of energy transfer in counter-streaming plasmas. High Energy Density Physics, 2013, 9, 231-238.	1.5	18
171	Laser-plasma interaction studies in the context of shock ignition: the regime dominated by parametric instabilities. Plasma Physics and Controlled Fusion, 2013, 55, 095002.	2.1	31
172	Short Intense Laser Pulse Collapse in Near-Critical Plasma. Physical Review Letters, 2013, 110, 085001.	7.8	46
173	Energy transfer in counter-propagating plasmas at sub-relativistic velocities. , 2013, , .		1
174	Dense plasma heating and Gbar shock formation by a high intensity flux of energetic electrons. Physics of Plasmas, 2013, 20, 062705.	1.9	46
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