

Alexander Pukhov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/21066/publications.pdf>

Version: 2024-02-01

399
papers

25,449
citations

8755

75
h-index

7518

151
g-index

407
all docs

407
docs citations

407
times ranked

10306
citing authors

#	ARTICLE	IF	CITATIONS
1	Forward-looking insights in laser-generated ultra-intense $\hat{\Gamma}^3$ -ray and neutron sources for nuclear application and science. Nature Communications, 2022, 13, 170.	12.8	43
2	All-optical quasi-monoenergetic GeV positron bunch generation by twisted laser fields. Communications Physics, 2022, 5, .	5.3	16
3	Leptoquark manoeuvres in the dark: a simultaneous solution of the dark matter problem and the $\{R\}_{D^{\left(ast\right)}}$ anomalies. Journal of High Energy Physics, 2022, 2022, 1.	4.7	24
4	Two dark matter candidates: The case of inert doublet and singlet scalars. Physical Review D, 2022, 105, .	4.7	16
5	Optimized laser-assisted electron injection into a quasilinear plasma wakefield. Physical Review E, 2022, 105, 035201.	2.1	0
6	Spin-Polarized Particle Beams from Laser-Plasma Based Accelerators. Journal of Physics: Conference Series, 2022, 2249, 012018.	0.4	1
7	Positron acceleration via laser-augmented blowouts in two-column plasma structures. Physical Review E, 2022, 105, .	2.1	4
8	Suppression of errors in simulated ultrarelativistic bunch propagation using the $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle mml:mi \rangle X \langle /mml:mi \rangle \langle /mml:math \rangle$ -dispersionless Maxwell solver. Physical Review Accelerators and Beams, 2022, 25, .	1.6	0
9	Controlled Growth of the Self-Modulation of a Relativistic Proton Bunch in Plasma. Physical Review Letters, 2022, 129, .	7.8	8
10	Absolute laser energy absorption measurement of relativistic 0.7 ps laser pulses in nanowire arrays. Physics of Plasmas, 2021, 28, .	1.9	7
11	Bright betatron x-rays generation from picosecond laser interactions with long-scale near critical density plasmas. Applied Physics Letters, 2021, 118, .	3.3	12
12	Recasting direct detection limits within micrOMEGAs and implication for non-standard dark matter scenarios. European Physical Journal C, 2021, 81, 1.	3.9	64
13	Transition between Instability and Seeded Self-Modulation of a Relativistic Particle Bunch in Plasma. Physical Review Letters, 2021, 126, 164802.	7.8	13
14	Highly Efficient Heavy Ion Acceleration from Laser Interaction with Dusty Plasma. Advanced Photonics Research, 2021, 2, 2000181.	3.6	4
15	Excitation of strongly nonlinear plasma wakefield by electron bunches. Plasma Physics and Controlled Fusion, 2021, 63, 085004.	2.1	3
16	Magnetic field amplification to gigagauss scale via hydrodynamic flows and dynamos driven by femtosecond lasers. New Journal of Physics, 2021, 23, 063054.	2.9	10
17	On the robustness of spin polarization for magnetic vortex accelerated proton bunches in density down-ramps. Plasma Physics and Controlled Fusion, 2021, 63, 085011.	2.1	8
18	Bright betatron radiation from direct-laser-accelerated electrons at moderate relativistic laser intensity. Matter and Radiation at Extremes, 2021, 6, .	3.9	11

#	ARTICLE	IF	CITATIONS
19	Scaling laws for laser-driven ion acceleration from nanometer-scale ultrathin foils. <i>Physical Review E</i> , 2021, 104, 025210.	2.1	9
20	Electron acceleration in intense laser–solid interactions at parallel incidence. <i>Quantum Electronics</i> , 2021, 51, 833-837.	1.0	6
21	Effect of transverse displacement of charged particle beams on quantum electrodynamic processes during their collision. <i>Quantum Electronics</i> , 2021, 51, 807-811.	1.0	3
22	Simulation and experimental study of proton bunch self-modulation in plasma with linear density gradients. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	3
23	Experimental study of extended timescale dynamics of a plasma wakefield driven by a self-modulated proton bunch. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	3
24	TJ cm ³ high energy density plasma formation from intense laser-irradiated foam targets composed of disordered carbon nanowires. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 015014.	2.1	8
25	Efficient Narrow-Band Terahertz Radiation from Electrostatic Wakefields in Nonuniform Plasmas. <i>Physical Review Letters</i> , 2021, 127, 175001.	7.8	9
26	Beamstrahlung-enhanced disruption in beam–beam interaction. <i>New Journal of Physics</i> , 2021, 23, 103040.	2.9	4
27	Monoenergetic High-Energy Ion Source via Femtosecond Laser Interacting with a Microtape. <i>Physical Review X</i> , 2021, 11, .	8.9	20
28	Analysis of proton bunch parameters in the AWAKE experiment. <i>Journal of Instrumentation</i> , 2021, 16, P11031.	1.2	0
29	Ion acceleration and D-D fusion neutron generation in relativistically transparent deuterated nanowire arrays. <i>Physical Review Research</i> , 2021, 3, .	3.6	9
30	Enhanced electron acceleration in aligned nanowire arrays irradiated at highly relativistic intensities. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 014013.	2.1	27
31	Extreme ionization of heavy atoms in solid-density plasmas by relativistic second-harmonic laser pulses. <i>Nature Photonics</i> , 2020, 14, 607-611.	31.4	24
32	Simulation of Polarized Beams from Laser-Plasma Accelerators. <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012013.	0.4	5
33	TeV acceleration in a Matryoshka plasma channel. <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012065.	0.4	1
34	Superluminal phase velocity approach for suppression of Numerical Cherenkov Instability in Maxwell solver. <i>Journal of Physics: Conference Series</i> , 2020, 1692, 012002.	0.4	2
35	Cherenkov-free RIP Maxwell solver: dispersionless along X. <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012053.	0.4	0
36	Summary of Working Group 8: Advanced and Novel Accelerators for High Energy Physics. <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012064.	0.4	0

#	ARTICLE	IF	CITATIONS
37	Finite-emittance Wigner crystals in the bubble regime. <i>Laser and Particle Beams</i> , 2020, 38, 176-180.	1.0	0
38	Dark matter abundance from the sequential freeze-in mechanism. <i>Physical Review D</i> , 2020, 102, .	4.7	18
39	Betatron radiation diagnostics for AWAKE Run 2. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 971, 164076.	1.6	5
40	X-dispersionless Maxwell solver for plasma-based particle acceleration. <i>Journal of Computational Physics</i> , 2020, 418, 109622.	3.8	20
41	The filamented electron bunch of the bubble regime. <i>Laser and Particle Beams</i> , 2020, 38, 121-127.	1.0	1
42	Spin Filter for Polarized Electron Acceleration in Plasma Wakefields. <i>Physical Review Applied</i> , 2020, 13, .	3.8	15
43	The Z5 model of two-component dark matter. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	17
44	High-current laser-driven beams of relativistic electrons for high energy density research. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 115024.	2.1	43
45	Fixing E-field divergence in strongly non-linear wakefields in homogeneous plasma. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 115017.	2.1	3
46	Scaling laws for the depolarization time of relativistic particle beams in strong fields. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	30
47	Experimental study of wakefields driven by a self-modulating proton bunch in plasma. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	8
48	Proton Bunch Self-Modulation in Plasma with Density Gradient. <i>Physical Review Letters</i> , 2020, 125, 264801.	7.8	5
49	LHC-friendly minimal freeze-in models. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	64
50	Probing non-perturbative QED with electron-laser collisions. <i>Scientific Reports</i> , 2019, 9, 9407.	3.3	39
51	Proton acceleration in a laser-induced relativistic electron vortex. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	4
52	Polarized electron-beam acceleration driven by vortex laser pulses. <i>New Journal of Physics</i> , 2019, 21, 073052.	2.9	33
53	Proton-driven plasma wakefield acceleration in AWAKE. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180418.	3.4	8
54	Polarized electron acceleration in beam-driven plasma wakefield based on density down-ramp injection. <i>Physical Review E</i> , 2019, 100, 043202.	2.1	27

#	ARTICLE	IF	CITATIONS
55	Laser-solid interaction and its potential for probing radiative corrections in strong-field quantum electrodynamics. Plasma Physics and Controlled Fusion, 2019, 61, 074010.	2.1	16
56	Prospect of Studying Nonperturbative QED with Beam-Beam Collisions. Physical Review Letters, 2019, 122, 190404.	7.8	89
57	Relativistic Interaction of Long-Wavelength Ultrashort Laser Pulses with Nanowires. Physical Review X, 2019, 9, .	8.9	19
58	Static properties of the ^9Be nucleus in the ground and excited states in the cluster model. Physica Scripta, 2019, 94, 085301.	2.5	2
59	Efficient generation of ~ 100 MeV ions from ultrashort > 21 W cm $^{-2}$ laser pulse interaction with a waveguide target. Nuclear Fusion, 2019, 59, 066034.	3.5	17
60	Polarized proton beams from laser-induced plasmas. High Power Laser Science and Engineering, 2019, 7, .	4.6	25
61	Optimization of laser-nanowire target interaction to increase the proton acceleration efficiency. Plasma Physics and Controlled Fusion, 2019, 61, 065016.	2.1	26
62	Experimental Observation of Plasma Wakefield Growth Driven by the Seeded Self-Modulation of a Proton Bunch. Physical Review Letters, 2019, 122, 054801.	7.8	49
63	Experimental Observation of Proton Bunch Modulation in a Plasma at Varying Plasma Densities. Physical Review Letters, 2019, 122, 054802.	7.8	49
64	Interplay of the LHC and non-LHC dark matter searches in the effective field theory approach. Physical Review D, 2019, 99, .	4.7	27
65	Boosted acceleration of protons by tailored ultra-thin foil targets. Scientific Reports, 2019, 9, 18672.	3.3	8
66	Polarized proton beams from a laser-plasma accelerator. International Journal of Modern Physics A, 2019, 34, 1942028.	1.5	9
67	Transformer-ratio optimization in nonlinearly driven hollow plasma channels. Physical Review Accelerators and Beams, 2019, 22, .	1.6	1
68	Schlieren imaging for the determination of the radius of an excited rubidium column. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 387-390.	1.6	3
69	Relativistic magnetic reconnection driven by a laser interacting with a micro-scale plasma slab. Nature Communications, 2018, 9, 1601.	12.8	15
70	Micro-scale fusion in dense relativistic nanowire array plasmas. Nature Communications, 2018, 9, 1077.	12.8	71
71	Collider limits on new physics within micrOMEGAs $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml19" display="inline" overflow="scroll" altimg="si19.gif" \rangle$ $\langle \text{mml:mtext} \rangle$ $\langle \text{mml:mtext} \rangle$ $\langle \text{mml:math} \rangle$ 4.3. Computer Physics Communications, 2018, 222, 327-338.	7.5	118
72	AWAKE readiness for the study of the seeded self-modulation of a 400 GeV proton bunch. Plasma Physics and Controlled Fusion, 2018, 60, 014046.	2.1	37

#	ARTICLE	IF	CITATIONS
73	External electron injection, trapping, and emittance evolution in the blow-out regime. <i>Physics of Plasmas</i> , 2018, 25, 123112.	1.9	2
74	Stable Particle Acceleration in Coaxial Plasma Channels. <i>Physical Review Letters</i> , 2018, 121, 264801.	7.8	12
75	Acceleration of electrons in the plasma wakefield of a proton bunch. <i>Nature</i> , 2018, 561, 363-367.	27.8	162
76	micrOMEGAs5.0 : Freeze-in. <i>Computer Physics Communications</i> , 2018, 231, 173-186.	7.5	327
77	Two-dimensional structures of electron bunches in relativistic plasma cavities. <i>Physical Review E</i> , 2018, 98, 013201.	2.1	2
78	Electron dynamics in twisted light modes of relativistic intensity. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	35
79	Micro-Scale Fusion in Dense Nanowire Arrays Irradiated by Femtosecond Laser Pulses of Relativistic Intensity. , 2018, , .		0
80	Energy penetration into arrays of aligned nanowires irradiated with relativistic intensities: Scaling to terabar pressures. <i>Science Advances</i> , 2017, 3, e1601558.	10.3	58
81	Laser-Driven Ion Acceleration from Plasma Micro-Channel Targets. <i>Scientific Reports</i> , 2017, 7, 42666.	3.3	39
82	Bubble regime in deep plasma channels. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
83	An ultra-high gain and efficient amplifier based on Raman amplification in plasma. <i>Scientific Reports</i> , 2017, 7, 2399.	3.3	44
84	Beam load structures in a basic relativistic interaction model. <i>Physics of Plasmas</i> , 2017, 24, 013101.	1.9	3
85	Analytic model for electromagnetic fields in the bubble regime of plasma wakefield in non-uniform plasmas. <i>Physics of Plasmas</i> , 2017, 24, 103104.	1.9	17
86	Generation of attosecond electron packets in the interaction of ultraintense Laguerre " Gaussian laser beams with plasma. <i>Quantum Electronics</i> , 2017, 47, 194-198.	1.0	7
87	Laser amplifier based on Raman amplification in plasma (Conference Presentation). , 2017, , .		0
88	Dark Matter characterization at the LHC in the Effective Field Theory approach. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	18
89	Delta-layer model for the boundary of a bubble excited by an electron bunch or laser pulse in a plasma channel. <i>Quantum Electronics</i> , 2017, 47, 228-231.	1.0	0
90	Exploring novel target structures for manipulating relativistic laser"plasma interaction. <i>High Power Laser Science and Engineering</i> , 2017, 5, .	4.6	13

#	ARTICLE	IF	CITATIONS
91	X-ray emission from nanostructured targets irradiated by a relativistically intense mid-infrared driver. , 2017, , .		0
92	Efficient picosecond x-ray pulse generation from plasmas in the radiation dominated regime. Optica, 2017, 4, 1344.	9.3	51
93	Bright high-order harmonic generation with controllable polarization from a relativistic plasma mirror. Nature Communications, 2016, 7, 12515.	12.8	45
94	Plasma-based polarization modulator for high-intensity lasers. Physics of Plasmas, 2016, 23, 123107.	1.9	3
95	Analytical approach to high harmonics spectrum in the nanobunching regime. Physics of Plasmas, 2016, 23, 103301.	1.9	17
96	Optimized stability of a modulated driver in a plasma wakefield accelerator. Laser and Particle Beams, 2016, 34, 519-526.	1.0	0
97	High Repetition Rate Soft X-Ray Lasers and Bright Table-top X-Ray Plasma Sources from Nanostructured Targets. , 2016, , .		0
98	Influence of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msup} \langle \text{mml:mi} \text{e} \rangle \rangle \langle \text{mml:mo} \hat{=} \rangle \langle \text{mml:mo} \rangle \rangle \rangle$ creation on the radiative trapping in ultraintense fields of colliding laser pulses. Physical Review E, 2016, 94, 063204.	2.1	12
99	Radiation from laser-microplasma-waveguide interactions in the ultra-intense regime. Physics of Plasmas, 2016, 23, .	1.9	5
100	Dense GeV electron-positron pairs generated by lasers in near-critical-density plasmas. Nature Communications, 2016, 7, 13686.	12.8	131
101	Non-linear theory of a cavitated plasma wake in a plasma channel for special applications and control. Physics of Plasmas, 2016, 23, 053108.	1.9	22
102	Beam loading in the bubble regime in plasmas with hollow channels. Physics of Plasmas, 2016, 23, 093114.	1.9	12
103	Generalised model of a sheath of a plasma bubble excited by a short laser pulse or by a relativistic electron bunch in transversely inhomogeneous plasma. Quantum Electronics, 2016, 46, 295-298.	1.0	12
104	AWAKE, The Advanced Proton Driven Plasma Wakefield Acceleration Experiment at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 76-82.	1.6	77
105	Wide-aperture planar lasers. Journal of Communications Technology and Electronics, 2016, 61, 551-573.	0.5	0
106	AWAKE: A Proton-Driven Plasma Wakefield Acceleration Experiment at CERN. Nuclear and Particle Physics Proceedings, 2016, 273-275, 175-180.	0.5	4
107	Towards manipulating relativistic laser pulses with micro-tube plasma lenses. Scientific Reports, 2016, 6, 23256.	3.3	56
108	Microengineering Laser Plasma Interactions at Relativistic Intensities. Physical Review Letters, 2016, 116, 085002.	7.8	77

#	ARTICLE	IF	CITATIONS
109	Bright X-Ray Source from a Laser-Driven Microplasma Waveguide. Physical Review Letters, 2016, 116, 115001.	7.8	47
110	Nanoscale Ultradense Z -Pinch Formation from Laser-Irradiated Nanowire Arrays. Physical Review Letters, 2016, 117, 035004.	7.8	51
111	Direct acceleration of electrons by a CO2 laser in a curved plasma waveguide. Scientific Reports, 2016, 6, 28147.	3.3	8
112	Strong ionisation in carbon nanowires. Quantum Electronics, 2016, 46, 327-331.	1.0	0
113	Wavebreaking-associated transmitted emission of attosecond extreme-ultraviolet pulses from laser-driven overdense plasmas. New Journal of Physics, 2016, 18, 063014.	2.9	5
114	Characterization of the equilibrium configuration for modulated beams in a plasma wakefield accelerator. Physics of Plasmas, 2016, 23, 053109.	1.9	2
115	Quasi-stable injection channels in a wakefield accelerator. Physics of Plasmas, 2016, 23, 053112.	1.9	0
116	Status and prospects of the nMSSM after LHC Run-1. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
117	Analytical description of attosecond pulse generation on a plasma surface irradiated by high-intense laser pulses. Quantum Electronics, 2016, 46, 353-360.	1.0	2
118	Polarization-tunable terahertz radiation in the high-field regime. Optics Letters, 2016, 41, 2660.	3.3	7
119	Voronoi particle merging algorithm for PIC codes. Computer Physics Communications, 2016, 202, 165-174.	7.5	20
120	Path to AWAKE: Evolution of the concept. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 3-16.	1.6	55
121	Laser wakefield and direct acceleration with ionization injection. Plasma Physics and Controlled Fusion, 2016, 58, 034011.	2.1	20
122	X-ray Generation From Ultra-High Energy Density Relativistic Plasmas by Ultrafast Laser Irradiation of Nanowire Arrays. Springer Proceedings in Physics, 2016, , 139-145.	0.2	0
123	Dense Electron-Positron Pair Production in Ultra-intense Laser Cone Interaction $\langle \sigma \rangle$, 2016, , .		1
124	Raman amplification in the coherent wave-breaking regime. Physical Review E, 2015, 92, 063109.	2.1	12
125	High field terahertz emission from relativistic laser-driven plasma wakefields. Physics of Plasmas, 2015, 22, .	1.9	12
126	Transformer ratio saturation in a beam-driven wakefield accelerator. Physics of Plasmas, 2015, 22, .	1.9	5

#	ARTICLE	IF	CITATIONS
127	Probing U(1) extensions of the MSSM at the LHC Run I and in dark matter searches. Journal of High Energy Physics, 2015, 2015, 1.	4.7	18
128	Limits on dark matter proton scattering from neutrino telescopes using micrOMEGAs. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 036-036.	5.4	12
129	Theory of a double-quantum-dot spaser. Quantum Electronics, 2015, 45, 245-249.	1.0	5
130	Control of target-normal-sheath-accelerated protons from a guiding cone. Physics of Plasmas, 2015, 22, .	1.9	19
131	Applicability of the envelope model. , 2015, , .		1
132	micrOMEGAs4.1: Two dark matter candidates. Computer Physics Communications, 2015, 192, 322-329.	7.5	342
133	Plasma-based methods for electron acceleration: current status and prospects. Physics-Uspekhi, 2015, 58, 81-88.	2.2	32
134	Laser fields in dynamically ionized plasma structures for coherent acceleration. European Physical Journal: Special Topics, 2015, 224, 2625-2629.	2.6	1
135	Temporal and spatial expansion of a multi-dimensional model for electron acceleration in the bubble regime. Laser and Particle Beams, 2014, 32, 277-284.	1.0	8
136	Proton-driven plasma wakefield acceleration: a path to the future of high-energy particle physics. Plasma Physics and Controlled Fusion, 2014, 56, 084013.	2.1	68
137	Characterizing Laser Plasma Electron Accelerators with Betatron Radiation. , 2014, , .		1
138	Ultra-High Energy Density Relativistic Plasmas and X-ray Generation by Ultrafast Laser Irradiation of Nanowire Arrays. , 2014, , .		0
139	Gamma-ray generation in ultrahigh-intensity laser-foil interactions. Physics of Plasmas, 2014, 21, 013109.	1.9	42
140	Bright tunable femtosecond x-ray emission from laser irradiated micro-droplets. Applied Physics Letters, 2014, 105, .	3.3	26
141	Field-Reversed Bubble in Deep Plasma Channels for High-Quality Electron Acceleration. Physical Review Letters, 2014, 113, 245003.	7.8	30
142	Radiation-Reaction Trapping of Electrons in Extreme Laser Fields. Physical Review Letters, 2014, 112, 145003.	7.8	147
143	micrOMEGAs_3: A program for calculating dark matter observables. Computer Physics Communications, 2014, 185, 960-985.	7.5	582
144	Energy partition, $\hat{\gamma}^3$ -ray emission, and radiation reaction in the near-quantum electrodynamical regime of laser-plasma interaction. Physics of Plasmas, 2014, 21, 023109.	1.9	76

#	ARTICLE	IF	CITATIONS
145	Dynamics of laser mass-limited foil interaction at ultra-high laser intensities. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	16
146	Ion acceleration in the \tilde{a} -dragging field TM of a light-pressure-driven piston. <i>New Journal of Physics</i> , 2014, 16, 063047.	2.9	15
147	Scaling electron acceleration in the bubble regime for upcoming lasers. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1017-1030.	2.6	10
148	Near QED regime of laser interaction with overdense plasmas. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1069-1082.	2.6	14
149	H-VLPL: A three-dimensional relativistic PIC/fluid hybrid code. <i>Journal of Computational Physics</i> , 2014, 269, 168-180.	3.8	3
150	Study of Laser Wakefield Accelerators as injectors for Synchrotron light sources. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 740, 153-157.	1.6	4
151	Coherent acceleration by laser pulse echelons in periodic plasma structures. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1197-1206.	2.6	9
152	Isospin-violating dark matter from a double portal. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 020-020.	5.4	31
153	Minimal semi-annihilating $\tilde{a}, \langle N \rangle$ scalar dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 021-021.	5.4	56
154	Phenomenology of charged scalars in the CP-violating inert-doublet model. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	18
155	Betatron-like resonance in ultra-intense laser mass-limited foil interaction. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 085021.	2.1	8
156	Relativistic plasma nanophotonics for ultrahigh energy density physics. <i>Nature Photonics</i> , 2013, 7, 796-800.	31.4	156
157	Stable laser-ion acceleration in the light sail regime. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	65
158	Fast multidimensional model for the simulation of Raman amplification in plasma. <i>Physical Review E</i> , 2013, 88, 063104.	2.1	6
159	Effect of plasma inhomogeneity on plasma wakefield acceleration driven by long bunches. <i>Physics of Plasmas</i> , 2013, 20, 013102.	1.9	29
160	Bright Betatronlike X Rays from Radiation Pressure Acceleration of a Mass-Limited Foil Target. <i>Physical Review Letters</i> , 2013, 110, 045001.	7.8	66
161	CalcHEP 3.4 for collider physics within and beyond the Standard Model. <i>Computer Physics Communications</i> , 2013, 184, 1729-1769.	7.5	738
162	Optical control of hard X-ray polarization by electron injection in a laser wakefield accelerator. <i>Nature Communications</i> , 2013, 4, 2421.	12.8	54

#	ARTICLE	IF	CITATIONS
163	$\hat{a}_{3,3}$ scalar singlet dark matter. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 022-022.	5.4	82
164	Simultaneous generation of monoenergetic tunable protons and carbon ions from laser-driven nanofoils. Optics Express, 2013, 21, 22558.	3.4	3
165	Laser-seeded modulation instability in a proton driver plasma wakefield accelerator. Physics of Plasmas, 2013, 20, 103111.	1.9	9
166	Testing minimal universal extra dimensions using Higgs boson searches at the LHC. Physical Review D, 2013, 87, .	4.7	31
167	Natural noise and external wakefield seeding in a proton-driven plasma accelerator. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	23
168	Super-filament formation of a relativistic Gaussian electron beam in a dense collisional plasma. New Journal of Physics, 2013, 15, 035021.	2.9	7
169	Principles of self-modulated proton driven plasma wake field acceleration. AIP Conference Proceedings, 2013, , .	0.4	4
170	Laser-seeded modulation instability within LHC proton beams. , 2013, , .		0
171	Impact of semi-annihilations on dark matter phenomenology. An example of Z_N symmetric scalar dark matter. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 010-010.	5.4	88
172	Betatron radiation based measurement of the electron-beam size in a wakefield accelerator. , 2012, , .		1
173	Transverse coherent transition radiation for diagnosis of modulated proton bunches. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	4
174	Publisher's Note: Deducing the Electron-Beam Diameter in a Laser-Plasma Accelerator Using X-Ray Betatron Radiation [Phys. Rev. Lett.108, 075001 (2012)]. Physical Review Letters, 2012, 108, .	7.8	0
175	PAMELA and FERMI limits on the neutralino-chargino mass degeneracy. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 028-028.	5.4	29
176	Influence of Surface Waves on Plasma High-Order Harmonic Generation. Physical Review Letters, 2012, 108, 125002.	7.8	28
177	Harmonic Generation from Relativistic Plasma Surfaces in Ultrasteep Plasma Density Gradients. Physical Review Letters, 2012, 109, 125002.	7.8	99
178	Higgs boson in the MSSM in light of the LHC. Physical Review D, 2012, 85, .	4.7	14
179	Deducing the Electron-Beam Diameter in a Laser-Plasma Accelerator Using X-Ray Betatron Radiation. Physical Review Letters, 2012, 108, 075001.	7.8	77
180	Higgs Phenomenology of Minimal Universal Extra Dimensions. EPJ Web of Conferences, 2012, 28, 12070.	0.3	10

#	ARTICLE	IF	CITATIONS
181	Radiation reaction effects on ion acceleration in laser foil interaction. Plasma Physics and Controlled Fusion, 2011, 53, 014004.	2.1	93
182	Phase Velocity and Particle Injection in a Self-Modulated Proton-Driven Plasma Wakefield Accelerator. Physical Review Letters, 2011, 107, 145003.	7.8	69
183	Controlling the Spacing of Attosecond Pulse Trains from Relativistic Surface Plasmas. Physical Review Letters, 2011, 106, 185002.	7.8	51
184	Exploring the CP-violating Inert-Doublet Model. Journal of High Energy Physics, 2011, 2011, 1.	4.7	26
185	Indirect search for dark matter with micrOMEGAs_2.4. Computer Physics Communications, 2011, 182, 842-856.	7.5	280
186	SLHAPlus: A library for implementing extensions of the standard model. Computer Physics Communications, 2011, 182, 763-774.	7.5	27
187	The right-handed sneutrino as thermal dark matter in U(1) extensions of the MSSM. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 014-014.	5.4	22
188	Dark matter in UED: the role of the second KK level. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 009-009.	5.4	66
189	Plasma wakefield excitation with a 24-GeV proton beam. Plasma Physics and Controlled Fusion, 2011, 53, 014003.	2.1	22
190	Simulations of stable compact proton beam acceleration from a two-ion-species ultrathin foil. Physics of Plasmas, 2011, 18, .	1.9	35
191	Efficient generation of fast ions from surface modulated nanostructure targets irradiated by high intensity short-pulse lasers. Physics of Plasmas, 2011, 18, .	1.9	52
192	Stabilized radiation pressure dominated ion acceleration from surface modulated thin-foil targets. Physics of Plasmas, 2011, 18, .	1.9	25
193	Relativistic Laser Plasmas for Electron Acceleration and Short Wavelength Radiation Generation. Springer Series in Chemical Physics, 2011, , 191-223.	0.2	0
194	Update of Proton Driven Plasma Wakefield Acceleration. , 2010, , .		9
195	Reply to Comment on "Relativistic high harmonics and (sub-)attosecond pulses: relativistic spikes and relativistic mirror". European Physical Journal D, 2010, 58, 139-140.	1.3	2
196	Relativistic laser plasmas for electron acceleration and short wavelength radiation generation. Plasma Physics and Controlled Fusion, 2010, 52, 124039.	2.1	29
197	A multidimensional theory for electron trapping by a plasma wake generated in the bubble regime. New Journal of Physics, 2010, 12, 045009.	2.9	27
198	Response to "Comment on "Phenomenological theory of laser-plasma interaction in "bubble" regime" [Phys. Plasmas 17, 054703 (2010)]. Physics of Plasmas, 2010, 17, 054704.	1.9	4

#	ARTICLE	IF	CITATIONS
199	Hamiltonian model for plasma electron trapping and acceleration in multidimensional plasma wake field. , 2010, , .		0
200	Target shape effects on monoenergetic GeV proton acceleration. New Journal of Physics, 2010, 12, 045004.	2.9	11
201	Light mixed sneutrinos as thermal dark matter. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 017-017.	5.4	46
202	Numerical modelling of a 10-cm-long multi-GeV laser wakefield accelerator driven by a self-guided petawatt pulse. New Journal of Physics, 2010, 12, 045019.	2.9	41
203	Enhanced relativistic harmonics by electron nanobunching. Physics of Plasmas, 2010, 17, 033110.	1.9	141
204	Stable Laser-Driven Proton Beam Acceleration from a Two-Ion-Species Ultrathin Foil. Physical Review Letters, 2010, 105, 065002.	7.8	152
205	Thomson scattering on inhomogeneous targets. Physical Review E, 2010, 82, 056404.	2.1	27
206	Three-Dimensional Relativistic Particle-in-Cell Hybrid Code Based on an Exponential Integrator. IEEE Transactions on Plasma Science, 2010, 38, 2383-2389.	1.3	12
207	Can neutralinos in the MSSM and NMSSM scenarios still be light?. Physical Review D, 2010, 82, .	4.7	59
208	Self-Modulation Instability of a Long Proton Bunch in Plasmas. Physical Review Letters, 2010, 104, 255003.	7.8	157
209	Proton and Ion Beams Generated with Picosecond CO[sub 2] Laser Pulses. , 2009, , .		4
210	Characterization of two distinct, simultaneous hot electron beams in intense laser-solid interactions. Physical Review E, 2009, 80, 055402.	2.1	15
211	Detailed particle-in-cell simulations on the transport of a relativistic electron beam in plasmas. Physical Review E, 2009, 80, 016401.	2.1	23
212	Technicolor walks at the LHC. Physical Review D, 2009, 79, .	4.7	83
213	Enhanced Collimated GeV Monoenergetic Ion Acceleration from a Shaped Foil Target Irradiated by a Circularly Polarized Laser Pulse. Physical Review Letters, 2009, 103, 024801.	7.8	171
214	Strong terahertz radiation from air plasmas generated by an aperture-limited Gaussian pump laser beam. Applied Physics Letters, 2009, 94, .	3.3	27
215	Directed Acceleration of Electrons from a Solid Surface by Sub-10-fs Laser Pulses. Physical Review Letters, 2009, 102, 195001.	7.8	18
216	Direct detection: discriminating dark matter candidates. EAS Publications Series, 2009, 36, 197-202.	0.3	0

#	ARTICLE	IF	CITATIONS
217	Particle and x-ray generation by irradiation of gaseous and solid targets with a 100â€%TW laser pulse. Plasma Physics and Controlled Fusion, 2009, 51, 124049.	2.1	14
218	High quality GeV proton beams from a density-modulated foil target. Laser and Particle Beams, 2009, 27, 611-617.	1.0	22
219	Terahertz radiation from the interaction of laser pulses with gas target. , 2009, , .		0
220	Precision measurements, dark matter direct detection and LHC Higgs searches in a constrained NMSSM. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 023-023.	5.4	24
221	Dark matter with Dirac and Majorana gaugino masses. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 027-027.	5.4	65
222	Proton-driven plasma-wakefield acceleration. Nature Physics, 2009, 5, 363-367.	16.7	184
223	SUSY Les Houches Accord 2. Computer Physics Communications, 2009, 180, 8-25.	7.5	295
224	Dark matter direct detection rate in a generic model with micrOMEGAs_2.2. Computer Physics Communications, 2009, 180, 747-767.	7.5	561
225	Quasi-monoenergetic electron acceleration in relativistic laser-plasmas. Comptes Rendus Physique, 2009, 10, 159-166.	0.9	2
226	Interplay of collisions and temperature on the filamentary structures of a relativistic electron beam in plasmas. European Physical Journal D, 2009, 55, 415-420.	1.3	4
227	Relativistic high harmonics and (sub-)attosecond pulses: relativistic spikes and relativistic mirror. European Physical Journal D, 2009, 55, 407-414.	1.3	13
228	Relativistic laser plasmas for novel radiation sources. European Physical Journal: Special Topics, 2009, 175, 25-33.	2.6	3
229	Electron Self-Injection in Multidimensional Relativistic-Plasma Wake Fields. Physical Review Letters, 2009, 103, 175003.	7.8	97
230	Discriminating dark matter candidates using direct detection. Physical Review D, 2009, 79, .	4.7	25
231	Ultrashort focused electromagnetic pulses. Physical Review E, 2009, 79, 016603.	2.1	11
232	Study of ultraintense laser propagation in overdense plasmas for fast ignition. Physics of Plasmas, 2009, 16, 056307.	1.9	25
233	Constraining the MSSM with universal gaugino masses and implication for searches at the LHC. Journal of High Energy Physics, 2009, 2009, 026-026.	4.7	59
234	Coherent Thomson scattering at laser compressed and accelerated electron bunches. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
235	Collider aspects of flavor physics at high Q. Advances in the Physics of Particles and Nuclei, 2009, , 171-295.	0.1	0
236	One-dimensional electromagnetic relativistic PIC-hydrodynamic hybrid simulation code H-VLPL (hybrid) Tj ETQq0 0 0 ggBT /Overlock 10 T	7.95	2
237	Collider aspects of flavor physics at high Q. European Physical Journal C, 2008, 57, 183-307.	3.9	59
238	Relativistic Laser-Plasma Physics. Springer Series in Optical Sciences, 2008, , 427-453.	0.7	0
239	Self-similar quasineutral expansion of a collisionless plasma with tailored electron temperature profile. Physics of Plasmas, 2008, 15, .	1.9	10
240	Optimal chirped probe pulse length for terahertz pulse measurement. Optics Express, 2008, 16, 12342.	3.4	19
241	Neutralino relic density from ILC measurements in the C -violating MSSM. Physical Review D, 2008, 78, .	4.7	6
242	Theoretical analysis and simulations of strong terahertz radiation from the interaction of ultrashort laser pulses with gases. Physical Review E, 2008, 78, 046406.	2.1	65
243	Full characterization of a laser-produced keV x-ray betatron source. Plasma Physics and Controlled Fusion, 2008, 50, 124008.	2.1	8
244	Analysis of wakefield electron orbits in plasma wiggler. Physics of Plasmas, 2008, 15, .	1.9	22
245	Influence of beam temperature and plasma collisions on the Weibel instability. , 2008, , .		0
246	Laser mode effects on the ion acceleration during circularly polarized laser pulse interaction with foil targets. Physics of Plasmas, 2008, 15, .	1.9	86
247	CERN LHC signatures of new gauge bosons in the minimal Higgsless model. Physical Review D, 2008, 78, .	4.7	65
248	Collision-Driven Negative-Energy Waves and the Weibel Instability of a Relativistic Electron Beam in a Quasineutral Plasma. Physical Review Letters, 2008, 101, 255001.	7.8	25
249	Control of laser-wakefield acceleration by the plasma-density profile. Physical Review E, 2008, 77, 025401.	2.1	49
250	Three-dimensional filamentary structures of a relativistic electron beam in fast ignition plasmas. Physics of Plasmas, 2008, 15, 120702.	1.9	7
251	Dirac neutrino dark matter. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 009.	5.4	43
252	High Intensity Laser Propagation though Overdense Plasmas. The Review of Laser Engineering, 2008, 36, 1139-1141.	0.0	0

#	ARTICLE	IF	CITATIONS
253	Proton and Ion Acceleration by an Ultrafast TW CO2 Laser: proof-of-principle experiments. , 2008, , .		0
254	DEVELOPMENT OF LASER BASED SYNCHROTRON X-RAY SOURCE. International Journal of Modern Physics B, 2007, 21, 497-507.	2.0	2
255	Relativistic plasma control for single attosecond pulse generation: Theory, simulations, and structure of the pulse. Laser and Particle Beams, 2007, 25, 339-346.	1.0	21
256	Collimated attosecond GeV electron bunches from ionization of high-Z material by radially polarized ultra-relativistic laser pulses. Laser and Particle Beams, 2007, 25, 371-377.	1.0	84
257	Dark matter in a constrained next-to-minimal supersymmetric standard model. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 009-009.	5.4	43
258	Propagation of relativistic surface harmonics radiation in free space. Physics of Plasmas, 2007, 14, .	1.9	25
259	Observation of Fine Structures in Laser-Driven Electron Beams Using Coherent Transition Radiation. Physical Review Letters, 2007, 98, 194801.	7.8	39
260	Coherence-based transverse measurement of synchrotron x-ray radiation from relativistic laser-plasma interaction and of laser-accelerated electrons. , 2007, , .		0
261	Relativistic laser channeling in plasmas for fast ignition. Physical Review E, 2007, 76, 066403.	2.1	31
262	Scalable Dynamics of High Energy Relativistic Electrons: Theory, Numerical Simulations and Experimental Results. Astrophysics and Space Science, 2007, 307, 335-340.	1.4	1
263	Hot electron and x-ray production from intense laser irradiation of wavelength-scale polystyrene spheres. Physics of Plasmas, 2007, 14, 062704.	1.9	26
264	Compton scattering x-ray sources driven by laser wakefield acceleration. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	55
265	Demonstration of the ultrafast nature of laser produced betatron radiation. Physics of Plasmas, 2007, 14, 080701.	1.9	63
266	micrOMEGAs 2.0: A program to calculate the relic density of dark matter in a generic model. Computer Physics Communications, 2007, 176, 367-382.	7.5	574
267	micrOMEGAs 2.0.7: a program to calculate the relic density of dark matter in a generic model. Computer Physics Communications, 2007, 177, 894-895.	7.5	66
268	Coherence-based transverse measurement of synchrotron x-ray radiation from relativistic laser-plasma interaction and laser-accelerated electrons. Physical Review E, 2006, 74, 045401.	2.1	33
269	Relic density of neutralino dark matter in the MSSM with CP violation. Physical Review D, 2006, 73, .	4.7	35
270	Relativistic plasma control for single attosecond x-ray burst generation. Physical Review E, 2006, 74, 065401.	2.1	82

#	ARTICLE	IF	CITATIONS
271	Theory of high-order harmonic generation in relativistic laser interaction with overdense plasma. <i>Physical Review E</i> , 2006, 74, 046404.	2.1	287
272	Development of a collimated keV X-ray beam for probing of dense plasmas. <i>European Physical Journal Special Topics</i> , 2006, 133, 473-477.	0.2	1
273	Neutralino dark matter in the MSSM with CP violation. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	3
274	Laser Hole Boring and Hot Electron Generation in the Fast Ignition Scheme. <i>Fusion Science and Technology</i> , 2006, 49, 278-296.	1.1	47
275	Bubble regime of wake field acceleration: similarity theory and optimal scalings. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 623-633.	3.4	50
276	Terawatt CO ₂ laser: a new tool for strong-field research. , 2006, 6261, 359.		4
277	X-rays in a flash. <i>Nature Physics</i> , 2006, 2, 439-440.	16.7	45
278	micROMEGAs: Version 1.3. <i>Computer Physics Communications</i> , 2006, 174, 577-604.	7.5	332
279	Physics interplay of the LHC and the ILC. <i>Physics Reports</i> , 2006, 426, 47-358.	25.6	297
280	Radiative losses in plasma accelerators. <i>Journal of Experimental and Theoretical Physics</i> , 2006, 103, 800-807.	0.9	8
281	Bringing picosecond CO ₂ lasers to the forefront of strong-field applications. , 2006, 6346, 275.		1
282	All optical ultrafast synchrotron hard x-ray source. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
283	Focusing of laser-generated ion beams by a plasma cylinder: Similarity theory and the thick lens formula. <i>Physics of Plasmas</i> , 2006, 13, 063103.	1.9	5
284	Relativistic laser channeling into high-density plasmas. <i>European Physical Journal Special Topics</i> , 2006, 133, 409-412.	0.2	1
285	Scalable Dynamics of High Energy Relativistic Electrons: Theory, Numerical Simulations and Experimental Results. , 2006, , 335-340.		0
286	Laser High Harmonics and Sub-Attosecond Pulses from Plasma Surfaces. , 2005, , JTuD3.		0
287	Leptoquark single and pair production at LHC with CalcHEP/CompHEP in the complete model. <i>Journal of High Energy Physics</i> , 2005, 2005, 005-005.	4.7	64
288	Relic density of dark matter in the next-to-minimal supersymmetric standard model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 001-001.	5.4	167

#	ARTICLE	IF	CITATIONS
289	Study of Electron-Beam Propagation through Preionized Dense Foam Plasmas. Physical Review Letters, 2005, 94, 195001.	7.8	62
290	Coherent Focusing of High Harmonics: A New Way Towards the Extreme Intensities. Physical Review Letters, 2005, 94, 103903.	7.8	146
291	Generation of quasi-monoenergetic electron beams using ultrashort and ultraintense laser pulses. Laser and Particle Beams, 2005, 23, 161-166.	1.0	45
292	Ultrafast X-ray and hard X-ray sources from relativistic laser-matter interaction. , 2005, , .		0
293	Monoenergetic electron beam optimization in the bubble regime. Physics of Plasmas, 2005, 12, 056702.	1.9	61
294	Comparison of supersymmetric spectrum calculations and impact on the relic density constraints from WMAP. Physical Review D, 2005, 72, .	4.7	70
295	WMAP constraints on SUGRA models with non-universal gaugino masses and prospects for direct detection. Nuclear Physics B, 2005, 706, 411-454.	2.5	96
296	Observation of Laser-Pulse Shortening in Nonlinear Plasma Waves. Physical Review Letters, 2005, 95, 205003.	7.8	123
297	Scalings for ultrarelativistic laser plasmas and quasimonoenergetic electrons. Physics of Plasmas, 2005, 12, 043109.	1.9	255
298	Laser based synchrotron radiation. Physics of Plasmas, 2005, 12, 023101.	1.9	76
299	Requirements on collider data to match the precision of WMAP on supersymmetric dark matter. Journal of High Energy Physics, 2004, 2004, 020-020.	4.7	66
300	Relativistic laserâ€‘plasma bubbles: new sources of energetic particles and x-rays. Nuclear Fusion, 2004, 44, S191-S201.	3.5	5
301	Lower limit on the neutralino mass in the general MSSM. Journal of High Energy Physics, 2004, 2004, 012-012.	4.7	56
302	SUSY Les Houches Accord: Interfacing SUSY Spectrum Calculators, Decay Packages, and Event Generators. Journal of High Energy Physics, 2004, 2004, 036-036.	4.7	413
303	Ion acceleration in overdense plasma by short laser pulse. Laser and Particle Beams, 2004, 22, 175-181.	1.0	50
304	A laserâ€‘plasma accelerator producing monoenergetic electron beams. Nature, 2004, 431, 541-544.	27.8	1,853
305	Relativistic Doppler Effect: Universal Spectra and Zeptosecond Pulses. Physical Review Letters, 2004, 93, 115002.	7.8	212
306	Phenomenological theory of laser-plasma interaction in â€‘bubbleâ€‘regime. Physics of Plasmas, 2004, 11, 5256-5264.	1.9	250

#	ARTICLE	IF	CITATIONS
307	The bubble regime of laser-plasma acceleration: monoenergetic electrons and the scalability. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, B179-B186.	2.1	85
308	X-ray Generation in Strongly Nonlinear Plasma Waves. <i>Physical Review Letters</i> , 2004, 93, 135004.	7.8	129
309	Production of a keV X-Ray Beam from Synchrotron Radiation in Relativistic Laser-Plasma Interaction. <i>Physical Review Letters</i> , 2004, 93, 135005.	7.8	557
310	Batch calculations in CalcHEP. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 502, 573-575.	1.6	2
311	Self-Compression of Laser Pulses in Plasma. <i>Physical Review Letters</i> , 2003, 91, 265002.	7.8	98
312	Relativistic laser-plasma interactions. <i>Journal Physics D: Applied Physics</i> , 2003, 36, R151-R165.	2.8	284
313	Strong field interaction of laser radiation. <i>Reports on Progress in Physics</i> , 2003, 66, 47-101.	20.1	306
314	X-ray generation in an ion channel. <i>Physics of Plasmas</i> , 2003, 10, 4818-4828.	1.9	133
315	High-Intensity Laser Induced Ion Acceleration from Heavy-Water Droplets. <i>Physical Review Letters</i> , 2003, 91, 015001.	7.8	112
316	Temporal Structure of Attosecond Pulses from Intense Laser-Atom Interactions. <i>Physical Review Letters</i> , 2003, 91, 173002.	7.8	43
317	Laser wake field acceleration in bubble regime: quasi-monoenergetic electron bunches and flashes of synchrotron radiation. , 2003, , .		0
318	Influence of laser pulse duration on relativistic channels. <i>Physics of Plasmas</i> , 2002, 9, 937-940.	1.9	8
319	Excitation of accelerating plasma waves by counter-propagating laser beams. <i>Physics of Plasmas</i> , 2002, 9, 2383-2392.	1.9	14
320	Energetic ions generated by laser pulses: A detailed study on target properties. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2002, 5, .	1.8	205
321	Production of ultracollimated bunches of multi-MeV electrons by 35 fs laser pulses propagating in exploding-foil plasmas. <i>Physics of Plasmas</i> , 2002, 9, 3655-3658.	1.9	64
322	Intense ion beams accelerated by ultra-intense laser pulses. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	1
323	Relativistic channel formation with different pulse durations. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
324	Laser wake field acceleration: the highly non-linear broken-wave regime. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, 355-361.	2.2	1,028

#	ARTICLE	IF	CITATIONS
325	micrOMEGAs: A program for calculating the relic density in the MSSM. Computer Physics Communications, 2002, 149, 103-120.	7.5	493
326	Measurements of the Inverse Faraday Effect from Relativistic Laser Interactions with an Underdense Plasma. Physical Review Letters, 2001, 87, 215004.	7.8	113
327	Three-Dimensional Simulations of Ion Acceleration from a Foil Irradiated by a Short-Pulse Laser. Physical Review Letters, 2001, 86, 3562-3565.	7.8	273
328	Relativistic laser propagation through underdense and overdense plasmas. Laser and Particle Beams, 2001, 19, 5-13.	1.0	9
329	<title>Intense ion beams accelerated by relativistic laser plasmas</title>. , 2001, 4510, 52.		2
330	Single top production in e^+e^- , e^-e^- , γe and $\gamma\gamma$ collisions. European Physical Journal C, 2001, 21, 81-91.	3.9	34
331	Laser acceleration of electrons and ions and intense secondary particle generation. Progress in Particle and Nuclear Physics, 2001, 46, 375-377.	14.4	28
332	Relativistic Laser Plasma Interaction. , 2001, , 167-192.		24
333	Pulse Compression in Plasma: Generation of Femtosecond Pulses Without CPA. Springer Series in Chemical Physics, 2001, , 311-313.	0.2	0
334	Short pulse interaction experiments for fast ignitor applications. Laser and Particle Beams, 2000, 18, 389-397.	1.0	1
335	Acceleration and compression of charged particle bunches using counterpropagating laser beams. IEEE Transactions on Plasma Science, 2000, 28, 1185-1192.	1.3	10
336	Branching Fraction Measurements of the SM Higgs with a Mass of 160 GeV at Future Linear $e+e?$ Colliders. EPJ Direct, 2000, 2, 1-19.	0.1	0
337	Inertial confinement fusion and fast ignitor studies. Nuclear Fusion, 2000, 40, 537-545.	3.5	7
338	Strongly interacting vector bosons at TeV $\hat{A}\pm e\hat{A}$ linear colliders: Addendum. Physical Review D, 2000, 61, .	4.7	24
339	Evidence of relativistic laser beam filamentation in back-reflected images. Physical Review E, 2000, 62, 2672-2677.	2.1	26
340	Collective Stopping and Ion Heating in Relativistic-Electron-Beam Transport for Fast Ignition. Physical Review Letters, 2000, 85, 2128-2131.	7.8	179
341	Two-dimensional particle-in-cell simulation for magnetized transport of ultra-high relativistic currents in plasma. Physics of Plasmas, 2000, 7, 1302-1308.	1.9	151
342	Studies of ultra-intense laser plasma interactions for fast ignition. Physics of Plasmas, 2000, 7, 2014-2022.	1.9	115

#	ARTICLE	IF	CITATIONS
343	Pulse compression in plasma: generation of femtosecond pulses without CPA. , 2000, , .		0
344	Laser-driven undulator radiation. , 1999, , .		3
345	Electromagnetically induced guiding and superradiant amplification of counter-propagating lasers in plasma. , 1999, , .		0
346	Physics of ultra-intense laser-plasma interaction. Plasma Physics and Controlled Fusion, 1999, 41, B221-B230.	2.1	10
347	Electromagnetically induced guiding of counterpropagating lasers in plasmas. Physical Review E, 1999, 59, 1033-1037.	2.1	34
348	Intense laser pulse propagation and channel formation through plasmas relevant for the fast ignitor scheme. Physics of Plasmas, 1999, 6, 2185-2190.	1.9	39
349	Generation of periodic accelerating structures in plasma by colliding laser pulses. Physical Review E, 1999, 60, 2218-2223.	2.1	32
350	Observations of Collimated Ionization Channels in Aluminum-Coated Glass Targets Irradiated by Ultraintense Laser Pulses. Physical Review Letters, 1999, 83, 4309-4312.	7.8	98
351	Studies of the fast ignition route to inertial confinement fusion at the Rutherford Appleton Laboratory. Fusion Engineering and Design, 1999, 44, 239-243.	1.9	3
352	Multi-MeV Electron Beam Generation by Direct Laser Acceleration in High-Density Plasma Channels. Physical Review Letters, 1999, 83, 4772-4775.	7.8	373
353	Particle acceleration in relativistic laser channels. Physics of Plasmas, 1999, 6, 2847-2854.	1.9	566
354	Particle physics with petawatt class lasers. Laser and Particle Beams, 1999, 17, 565-570.	1.0	25
355	Physics of short pulse laser plasma interaction by multi-dimensional particle-in-cell simulations. Laser and Particle Beams, 1999, 17, 571-578.	1.0	10
356	Three-dimensional electromagnetic relativistic particle-in-cell code VLPL (Virtual Laser Plasma Lab). Journal of Plasma Physics, 1999, 61, 425-433.	2.1	331
357	Super-radiant amplification of ultra-short ($\leq 10\text{fs}$) laser pulses in plasmas. , 1999, , .		0
358	Direct Laser Acceleration of Electrons in Relativistic Plasma Channels. , 1999, , .		0
359	Nonlinear stage of instability evolution in a monostable active medium. Technical Physics Letters, 1998, 24, 545-546.	0.7	0
360	Physics with e^+e^- linear colliders. Physics Reports, 1998, 299, 1-78.	25.6	274

#	ARTICLE	IF	CITATIONS
361	The Fast Ignitor. Europhysics News, 1998, 29, 219-220.	0.3	1
362	Superradiant Amplification of an Ultrashort Laser Pulse in a Plasma by a Counterpropagating Pump. Physical Review Letters, 1998, 81, 4879-4882.	7.8	204
363	Analytic and numerical study of magnetic fields in the plasma wake of an intense laser pulse. Physics of Plasmas, 1998, 5, 3764-3773.	1.9	36
364	Neutron production by 200 mJ ultrashort laser pulses. Physical Review E, 1998, 58, 1165-1168.	2.1	184
365	Relativistic laser-plasma interaction by multi-dimensional particle-in-cell simulations. Physics of Plasmas, 1998, 5, 1880-1886.	1.9	148
366	Strongly interacting vector bosons at TeV-linear colliders. Physical Review D, 1998, 57, 1553-1572.	4.7	40
367	Large Quasistatic Magnetic Fields Generated by a Relativistically Intense Laser Pulse Propagating in a Preionized Plasma. Physical Review Letters, 1998, 80, 5137-5140.	7.8	129
368	Dense plasma diagnostics by fast proton beams. Physical Review E, 1998, 57, 3363-3367.	2.1	44
369	Relativistic nonlinear optics in plasmas by 3D PIC simulations. , 1998, , .		0
370	Magnetic field generation in a low density plasma wake of a short laser pulse. , 1998, , .		0
371	Radiation at $2\omega_p$ from inverse two-plasmon decay in overdense plasma driven by ultra-short laser pulses. , 1998, , .		4
372	Ultra intense magnetic fields in laser plasma interaction: their generation and influence on light propagation. , 1998, , .		2
373	Magnetic interaction of ultrashort high-intensity laser pulses in plasmas. Plasma Physics and Controlled Fusion, 1997, 39, A137-A144.	2.1	13
374	Relativistic laser plasma interactions: Pulse shape modification and magnetic field generation. AIP Conference Proceedings, 1997, , .	0.4	1
375	Laser Hole Boring into Overdense Plasma and Relativistic Electron Currents for Fast Ignition of ICF Targets. Physical Review Letters, 1997, 79, 2686-2689.	7.8	206
376	Transverse-Wake Wave Breaking. Physical Review Letters, 1997, 78, 4205-4208.	7.8	260
377	Magnetic fields from high-intensity laser pulses in plasmas. Plasma Physics and Controlled Fusion, 1997, 39, B261-B272.	2.1	23
378	Positron and gamma-photon production and nuclear reactions in cascade processes initiated by a sub-terawatt femtosecond laser. Applied Physics Letters, 1997, 71, 3471-3473.	3.3	62

#	ARTICLE	IF	CITATIONS
379	Generation and diagnostics of a low-temperature, high-pressure ablation plasma. Technical Physics, 1997, 42, 439-441.	0.7	0
380	Relativistic Channeling of a Picosecond Laser Pulse in a Near-Critical Preformed Plasma. Physical Review Letters, 1997, 78, 879-882.	7.8	187
381	Higgs and top production in the reaction $\gamma e \rightarrow u \bar{b} W$ at TeV linear collider energies. Zeitschrift für Physik C-Particles and Fields, 1997, 75, 237-244.	1.5	9
382	Short-pulse laser harmonics from oscillating plasma surfaces driven at relativistic intensity. Physics of Plasmas, 1996, 3, 3425-3437.	1.9	519
383	Controlled wake field acceleration via laser pulse shaping. IEEE Transactions on Plasma Science, 1996, 24, 393-399.	1.3	35
384	Electron Vortices Produced by Ultraintense Laser Pulses. Physical Review Letters, 1996, 76, 3562-3565.	7.8	115
385	Relativistic Magnetic Self-Channeling of Light in Near-Critical Plasma: Three-Dimensional Particle-in-Cell Simulation. Physical Review Letters, 1996, 76, 3975-3978.	7.8	527
386	Fast ignitor concept. Numerical simulation. AIP Conference Proceedings, 1996, , .	0.4	0
387	Magnetic interaction and magnetic wake of high intensity laser pulses in plasmas. Physica Scripta, 1996, T63, 280-283.	2.5	6
388	Top quark production in the reaction $e^+e^- \rightarrow e u \bar{t}$ at linear collider energies. Zeitschrift für Physik C-Particles and Fields, 1996, 70, 255-261.	1.5	12
389	Two-Dimensional Regimes of Self-Focusing, Wake Field Generation, and Induced Focusing of a Short Intense Laser Pulse in an Underdense Plasma. Physical Review Letters, 1995, 74, 710-713.	7.8	105
390	LEPTOQUARK PAIR PRODUCTION AT ep COLLIDERS. Modern Physics Letters A, 1994, 09, 3007-3021.	1.2	19
391	Short, relativistically strong laser pulse in a narrow channel. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 195, 84-89.	2.1	27
392	Interaction of regular structures with small-scale fluctuations in drift-wave turbulence. Physics of Fluids B, 1992, 4, 336-348.	1.7	22
393	Numerical simulation of Kolmogorov spectra of long-wavelength drift turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 141, 154-156.	2.1	5
394	Dynamics of Drift Vortices in Collision Plasmas. Physica Scripta, 1987, 35, 677-681.	2.5	14
395	STUDIES ON THE LIFE HISTORY OF THE CLUB ROOT ORGANISM, PLASMIDIOPHORA BRASSICAE. Canadian Journal of Research, 1944, 22c, 143-149.	0.3	40
396	Generation of phase-controlled accelerating structures in plasma. , 0, , .		0

#	ARTICLE	IF	CITATIONS
397	Laser WakeField Acceleration of 170 MeV Quasi-Monoenergetic Electron Beams. , 0, , .		2
398	Spatial profile of accelerated electrons from ponderomotive scattering in hydrogen cluster targets. New Journal of Physics, 0, , .	2.9	0
399	p40. , 0, , 355-356.		0