

Francesco Pegoraro

List of Publications by Year in descending order

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369
papers

12,756
citations

28274

55
h-index

30922

102
g-index

375
all docs

375
docs citations

375
times ranked

4224
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-component self-gravitating isothermal slab models. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	0
2	Plasma physics and astrophysics: retrospects, state-of-the art, and prospects. <i>Rendiconti Lincei</i> , 2021, 32, 25-44.	2.2	0
3	Nonlinear waves in a dispersive vacuum described with a high order derivative electromagnetic Lagrangian. <i>Physical Review D</i> , 2021, 103, .	4.7	4
4	Light sail boosted by instantaneous radiation pressure. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	1
5	Theoretical and experimental aspects of non-equilibrium plasmas in different regimes: fundamentals and selected applications. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	13
6	Generation of high order harmonics in Heisenberg-Euler electrodynamics. <i>New Journal of Physics</i> , 2021, 23, 105003.	2.9	6
7	Introduction to the Topical Collection "Lincei Celebrative Essays". <i>Rendiconti Lincei</i> , 2021, 32, 647-654.	2.2	0
8	Nonlinear, nondispersive wave equations: Lagrangian and Hamiltonian functions in the hodograph transformation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126064.	2.1	5
9	Nonlinear electrodynamics at cylindrical "cumulation" fronts. <i>Rendiconti Lincei</i> , 2020, 31, 303-313.	2.2	1
10	Lagrangian and Dirac constraints for the ideal incompressible fluid and magnetohydrodynamics. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	8
11	Electromagnetic solitons in quantum vacuum. <i>Physical Review D</i> , 2020, 101, .	4.7	14
12	The unusual properties of plasmas. <i>Rivista Del Nuovo Cimento</i> , 2020, 43, 229-279.	5.7	4
13	Hodograph solutions of the wave equation of nonlinear electrodynamics in the quantum vacuum. <i>Physical Review D</i> , 2019, 100, .	4.7	7
14	Counterstreaming beams in magnetised Vlasov plasma. <i>Pramana - Journal of Physics</i> , 2019, 93, 1.	1.8	3
15	Plasmas in extreme electromagnetic fields. <i>Rendiconti Lincei</i> , 2019, 30, 11-15.	2.2	5
16	Introduction: Classical and quantum plasmas "matter under extreme conditions. <i>Rendiconti Lincei</i> , 2019, 30, 1-3.	2.2	6
17	Coherent magnetic structures in self-organized plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 044003.	2.1	15
18	Electromagnetic Burst Generation during Annihilation of Magnetic Field in Relativistic Laser-Plasma Interaction. <i>Scientific Reports</i> , 2019, 9, 19462.	3.3	14

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19	Shear-induced pressure anisotropization and correlation with fluid vorticity in a low collisionality plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 181-192.	4.4	40
20	Lagrangian Coherent Structures as a new frame to investigate the particle transport in highly chaotic magnetic systems. <i>Journal of Physics: Conference Series</i> , 2018, 1125, 012008.	0.4	3
21	North-South Asymmetric Kelvin-Helmholtz Instability and Induced Reconnection at the Earth's Magnetospheric Flanks. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9340-9356.	2.4	19
22	Lorentz invariant $\vec{\omega}$ potential magnetic field TM and magnetic flux conservation in an ideal relativistic plasma. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	1
23	Instability yields bright gamma emission. <i>Nature Photonics</i> , 2018, 12, 314-315.	31.4	6
24	Coherent transport structures in magnetized plasmas. I. Theory. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	12
25	Coherent transport structures in magnetized plasmas. II. Numerical results. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	9
26	Electron Weibel instability in relativistic counterstreaming plasmas with flow-aligned external magnetic fields. <i>Physical Review E</i> , 2017, 95, 023203.	2.1	28
27	$\vec{\omega}$ Magneto-elastic TM waves in an anisotropic magnetised plasma. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 045002.	2.1	8
28	Relativistic laser plasma interactions. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	1
29	Strong field electrodynamics of a thin foil. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
30	Ultra-bright $\hat{\gamma}$ -ray emission and dense positron production from two laser-driven colliding foils. <i>Scientific Reports</i> , 2017, 7, 17312.	3.3	28
31	Hamiltonian magnetohydrodynamics: Lagrangian, Eulerian, and dynamically accessible stability TM Examples with translation symmetry. <i>Physics of Plasmas</i> , 2016, 23, 102112.	1.9	13
32	Radiation pressure acceleration: The factors limiting maximum attainable ion energy. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	48
33	Covariant magnetic connection hypersurfaces. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	7
34	Pressure anisotropy and small spatial scales induced by velocity shear. <i>Physical Review E</i> , 2016, 93, 053203.	2.1	58
35	Pressure anisotropy generation in a magnetized plasma configuration with a shear flow velocity. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 045007.	2.1	11
36	Lagrangian coherent structures and plasma transport processes. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	23

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37	Action principle for relativistic magnetohydrodynamics. <i>Physical Review D</i> , 2015, 91, .	4.7	13
38	Generalised relativistic Ohm's laws, extended gauge transformations, and magnetic linking. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	13
39	Kinetic effects in the transverse filamentation instability of pair plasmas. <i>EPJ Web of Conferences</i> , 2015, 105, 02005.	0.3	0
40	Enhancement of Maximum Attainable Ion Energy in the Radiation Pressure Acceleration Regime Using a Guiding Structure. <i>Physical Review Letters</i> , 2015, 114, 105003.	7.8	32
41	Theory and applications of the Vlasov equation. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	17
42	Laser-driven Rayleigh-Taylor instability: Plasmonic effects and three-dimensional structures. <i>Physical Review E</i> , 2015, 91, 013106.	2.1	65
43	Particle acceleration and radiation friction effects in the filamentation instability of pair plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 3460-3467.	4.4	12
44	Magnetohydrodynamic equilibria with incompressible flows: Symmetry approach. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	12
45	Double-reconnected magnetic structures driven by Kelvin-Helmholtz vortices at the Earth's magnetosphere. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	23
46	Maximum attainable ion energy in the radiation pressure acceleration regime. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
47	Monoenergetic ion acceleration by collisionless shocks in laser plasma interactions. , 2015, , .		0
48	Kelvin-Helmholtz vortices and double mid-latitude reconnection at the Earth's magnetopause: Comparison between observations and simulations. <i>Europhysics Letters</i> , 2014, 107, 19001.	2.0	21
49	Pressure tensor in the presence of velocity shear: Stationary solutions and self-consistent equilibria. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	21
50	Phase space dynamics after the breaking of a relativistic Langmuir wave in a thermal plasma. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	8
51	Hamiltonian magnetohydrodynamics: Lagrangian, Eulerian, and dynamically accessible stabilityâ€”Theory. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	29
52	Laser-driven ion acceleration in the radiation pressure dominated regime. , 2013, , .		0
53	Strong field electrodynamics of a thin foil. <i>Physics of Plasmas</i> , 2013, 20, 123114.	1.9	33
54	Response to â€œComment on â€˜Undamped electrostatic plasma wavesâ€™â€”[Phys. Plasmas 20, 034701 (2013)], <i>Physics of Plasmas</i> , 2013, 20, 034702.	1.9	11

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55	Extended fluid models: Pressure tensor effects and equilibria. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	29
56	Nonlinear evolution of the magnetized Kelvin-Helmholtz instability: From fluid to kinetic modeling. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	48
57	Simulation studies of radiation pressure-driven light sail and shock acceleration. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
58	SWIFF: Space weather integrated forecasting framework. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A05.	3.3	21
59	Coupling between whistler waves and slow-mode solitary waves. <i>Physics of Plasmas</i> , 2012, 19, 052103.	1.9	7
60	On the breaking of a plasma wave in a thermal plasma. II. Electromagnetic wave interaction with the breaking plasma wave. <i>Physics of Plasmas</i> , 2012, 19, 113103.	1.9	17
61	On the breaking of a plasma wave in a thermal plasma. I. The structure of the density singularity. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	22
62	Hamiltonian magnetohydrodynamics: Helically symmetric formulation, Casimir invariants, and equilibrium variational principles. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	38
63	Double mid-latitude dynamical reconnection at the magnetopause: An efficient mechanism allowing solar wind to enter the Earth's magnetosphere. <i>Europhysics Letters</i> , 2012, 100, 69001.	2.0	27
64	Employing laser-accelerated proton beams to diagnose high intensity laser-plasma interactions. , 2012, , .		0
65	Coupling Between Whistler Waves and Ion-Scale Solitary Waves: Cluster Measurements in the Magnetotail During a Substorm. <i>Physical Review Letters</i> , 2012, 109, 155005.	7.8	12
66	Radiation-pressure-dominant acceleration: Polarization and radiation reaction effects and energy increase in three-dimensional simulations. <i>Physical Review E</i> , 2012, 85, 016407.	2.1	63
67	Ion acceleration from thin foil and extended plasma targets by slow electromagnetic wave and related ion-ion beam instability. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	32
68	The role of the magnetosonic Mach number on the evolution of Kelvin-Helmholtz vortices. <i>EAS Publications Series</i> , 2012, 58, 91-94.	0.3	2
69	Magnetic reconnection and Kelvin-Helmholtz instabilities at the Earth's magnetopause. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124037.	2.1	44
70	Covariant form of the ideal magnetohydrodynamic "connection theorem" in a relativistic plasma. <i>Europhysics Letters</i> , 2012, 99, 35001.	2.0	20
71	Dynamics of Self-Generated, Large Amplitude Magnetic Fields Following High-Intensity Laser Matter Interaction. <i>Physical Review Letters</i> , 2012, 109, 205002.	7.8	70
72	Magnetised Kelvin-Helmholtz instability in the intermediate regime between subsonic and supersonic regimes. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	16

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73	Undamped electrostatic plasma waves. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	37
74	Solitary versus shock wave acceleration in laser-plasma interactions. <i>Physical Review E</i> , 2012, 85, 046402.	2.1	40
75	Zonal-meridional decomposition and the Hamiltonian description of planetary fluid dynamics. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 2122-2131.	3.3	1
76	Compressible Kelvin-Helmholtz instability in supermagnetosonic regimes. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	12
77	Formation of a long-lived hot field reversed configuration by dynamically merging two colliding high- β^2 compact toroids. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	56
78	Fundamental properties of plasma flows in MPD thrusters. , 2011, , .		0
79	Radiation reaction effects on electron nonlinear dynamics and ion acceleration in laser-solid interaction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 653, 181-185.	1.6	61
80	Phase-locked ions and foil transparency in the radiation pressure acceleration regime. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 653, 153-155.	1.6	2
81	Plasma equilibria with multiple ion species: Equations and algorithm. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	32
82	Radiation friction modeling in superintense laser-plasma interactions. , 2011, , .		1
83	New Ion-Wave Path in the Energy Cascade. <i>Physical Review Letters</i> , 2011, 106, 165002.	7.8	37
84	Nonlinear vortex dynamics in an inhomogeneous magnetized plasma with a sheared velocity field. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 015003.	2.1	16
85	Finite Larmor radius effects in the nonlinear dynamics of collisionless magnetic reconnection. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 035008.	2.1	18
86	Excitation of nonlinear electrostatic waves with phase velocity close to the ion-thermal speed. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 105017.	2.1	12
87	Overview of FTU results. <i>Nuclear Fusion</i> , 2011, 51, 094015.	3.5	10
88	2D continuous spectrum of shear Alfvén waves in the presence of a magnetic island. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 025009.	2.1	16
89	Barriers in the transition to global chaos in collisionless magnetic reconnection. II. Field line spectroscopy. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	9
90	Kelvin-Helmholtz vortices and secondary instabilities in super-magnetosonic regimes. <i>Annales Geophysicae</i> , 2011, 29, 1169-1178.	1.6	12

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91	Barriers in the transition to global chaos in collisionless magnetic reconnection. I. Ridges of the finite time Lyapunov exponent field. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	23
92	Barriers to field line transport in 3D magnetic configurations. <i>Journal of Physics: Conference Series</i> , 2010, 260, 012012.	0.4	3
93	Dynamics of Radiation Pressure Acceleration. , 2010, , .		0
94	Dependence of the ion energy on the parameters of the laser pulse and target in the radiation-pressure-dominated regime of acceleration. <i>Plasma Physics Reports</i> , 2010, 36, 15-29.	0.9	17
95	Nonlinear processes in Hamiltonian reconnection. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 2-9.	3.3	8
96	Radiation pressure acceleration of ultrathin foils. <i>New Journal of Physics</i> , 2010, 12, 045013.	2.9	120
97	Radiation pressure and radiation reaction effects in laser-solid interaction. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
98	On the transition between the Weibel and the whistler instabilities. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 095007.	2.1	9
99	MHD equilibrium variational principles with symmetry. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 055001.	2.1	36
100	Hamiltonian four-field model for magnetic reconnection: nonlinear dynamics and extension to three dimensions with externally applied fields. <i>Nuclear Fusion</i> , 2010, 50, 034007.	3.5	34
101	Observation of Magnetized Soliton Remnants in the Wake of Intense Laser Pulse Propagation through Plasmas. <i>Physical Review Letters</i> , 2010, 105, 175002.	7.8	37
102	Radiation reaction effects on radiation pressure acceleration. <i>New Journal of Physics</i> , 2010, 12, 123005.	2.9	212
103	Continuous Spectrum of Shear Alfvén Waves within Magnetic Islands. <i>Physical Review Letters</i> , 2010, 105, 095002.	7.8	32
104	Magnetized plasma flows and magnetoplasma dynamic thrusters. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	4
105	Symmetries, weak symmetries, and related solutions of the Grad-Shafranov equation. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	15
106	Collisionless magnetic reconnection in the presence of a sheared velocity field. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	20
107	MHD plasma acceleration in plasma thrusters: a variational approach. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	1
108	The application of laser-driven proton beams to the radiography of intense laser hohlraum interactions. <i>New Journal of Physics</i> , 2010, 12, 045006.	2.9	38

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109	Nonlinear kinetic dynamics of magnetized weibel instability. Journal of Physics: Conference Series, 2010, 208, 012075.	0.4	1
110	Instability interplay in a magnetized streaming plasma. , 2010, , .		0
111	Radiation of plasma waves by a conducting body moving through a magnetized plasma. Journal of Geophysical Research, 2010, 115, .	3.3	2
112	Cherenkov emission of electronâ€cyclotron waves by a magnetized satellite orbiting the ionosphere. Journal of Geophysical Research, 2010, 115, .	3.3	3
113	Unlimited Ion Acceleration by Radiation Pressure. Physical Review Letters, 2010, 104, 135003.	7.8	140
114	Dynamic Formation of a Hot Field Reversed Configuration with Improved Confinement by Supersonic Merging of Two Colliding High-Î² Compact Toroids. Physical Review Letters, 2010, 105, 045003.	7.8	103
115	Unlimited energy gain in the laser-driven radiation pressure dominant acceleration of ions. Physics of Plasmas, 2010, 17, .	1.9	37
116	Shear AlfvÃ©n wave continuous spectrum within magnetic islands. Physics of Plasmas, 2010, 17, .	1.9	7
117	Solar wind interaction with the Earth's magnetosphere: the role of reconnection in the presence of a large scale sheared flow. Nonlinear Processes in Geophysics, 2009, 16, 1-10.	1.3	14
118	Coupling between reconnection and Kelvin-Helmholtz instabilities in collisionless plasmas. Nonlinear Processes in Geophysics, 2009, 16, 241-249.	1.3	14
119	Nonlinear kinetic development of the Weibel instability and the generation of electrostatic coherent structures. Plasma Physics and Controlled Fusion, 2009, 51, 125006.	2.1	34
120	Overview of the FTU results. Nuclear Fusion, 2009, 49, 104013.	3.5	24
121	Being on time in magnetic reconnection. New Journal of Physics, 2009, 11, 063008.	2.9	31
122	Nonlinear Relativistic Dynamics of a Plasma Foil Driven by Radiation Pressure. , 2009, , .		1
123	Electromagnetic energy density manipulation and enhancement in a relativistic plasma: the role of relativistic nonlinearities. , 2009, , .		0
124	On the ion acceleration by high power electromagnetic waves in the radiation pressure dominated regime. Comptes Rendus Physique, 2009, 10, 216-226.	0.9	21
125	Stability of a plasma foil in the radiation pressure dominated regime. European Physical Journal D, 2009, 55, 399-405.	1.3	5
126	Application of proton radiography in experiments of relevance to inertial confinement fusion. European Physical Journal D, 2009, 55, 299-303.	1.3	10

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127	Relativistic laser-matter interaction and relativistic laboratory astrophysics. <i>European Physical Journal D</i> , 2009, 55, 483-507.	1.3	109
128	Comment on "Signatures of the Unruh effect via high-power, short-pulse lasers". <i>European Physical Journal D</i> , 2009, 55, 391-391.	1.3	0
129	Ion acceleration and stability in the radiation pressure dominated regime. <i>Laser Physics</i> , 2009, 19, 222-227.	1.2	7
130	"Light Sail" Acceleration Reexamined. <i>Physical Review Letters</i> , 2009, 103, 085003.	7.8	292
131	Model of the symmetry evolution of a nonlinear continuous system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3456-3460.	2.1	0
132	On the stability of spatially uniform Langmuir oscillations of electronic plasmas. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 158-162.	3.3	1
133	Bandwidth enhancement for parametric amplifiers operated in chirped multi-beam mode. <i>Optics Communications</i> , 2008, 281, 4993-4997.	2.1	4
134	Vlasov equilibria: Varying the temperature or the density distributions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 147-152.	3.3	4
135	Plasma kinetics issues in an ESA study for a plasma laboratory in space. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 074016.	2.1	1
136	On the variational approach to axisymmetric magnetohydrodynamic equilibria. <i>Physics of Plasmas</i> , 2008, 15, 092108.	1.9	9
137	Active magnetic experiment: a magnetic bubble in the ionospheric stream. <i>Plasma Sources Science and Technology</i> , 2008, 17, 024006.	3.1	5
138	Nonlinear Collisionless Magnetic Reconnection. , 2008, , .		0
139	Interplay between Magnetic Reconnection and the Kelvin-Helmholtz and Rayleigh-Taylor Instabilities in a Magnetized Inhomogeneous Plasma with a Velocity Shear. , 2008, , .		0
140	Finite Larmor Radius and Three-Dimensional Effects on the Blobs in the Scrape-Off Layer. , 2008, , .		0
141	Stable and unstable invariant manifolds in a partially chaotic magnetic configuration generated by nonlinear reconnection. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	21
142	Effects of the parallel electron dynamics and finite ion temperature on the plasma blob propagation in the scrape-off layer. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	25
143	Solutions and symmetries of force-free magnetic fields. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	21
144	Time Window for Magnetic Reconnection in Plasma Configurations with Velocity Shear. <i>Physical Review Letters</i> , 2008, 101, 175003.	7.8	25

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145	Competing Mechanisms of Plasma Transport in Inhomogeneous Configurations with Velocity Shear: The Solar-Wind Interaction with Earth's Magnetosphere. <i>Physical Review Letters</i> , 2008, 100, 015001.	7.8	54
146	Numerical Evidence of Undriven, Fast Reconnection in the Solar-Wind Interaction with Earth's Magnetosphere: Formation of Electromagnetic Coherent Structures. <i>Physical Review Letters</i> , 2008, 101, 105001.	7.8	35
147	Collisionless Kelvin-Helmholtz instability and vortex-induced reconnection in the external region of the Earth magnetotail. <i>Journal of Physics: Conference Series</i> , 2008, 133, 012024.	0.4	3
148	NONLINEAR DYNAMICS OF A HAMILTONIAN FOUR-FIELD MODEL FOR MAGNETIC RECONNECTION IN COLLISIONLESS PLASMAS. , 2008, , .		1
149	THE RAYLEIGH-TAYLOR INSTABILITY OF A PLASMA FOIL ACCELERATED BY THE RADIATION PRESSURE OF AN ULTRA INTENSE LASER PULSE. , 2008, , .		0
150	GENERAL PROPERTIES OF THE RAYLEIGH-TAYLOR INSTABILITY IN DIFFERENT PLASMA CONFIGURATIONS: THE PLASMA FOIL MODEL. , 2008, , .		0
151	NOVEL ACCELERATION TECHNIQUES FOR THE PHYSICS OF MASSIVE NEUTRINOS. <i>International Journal of Modern Physics B</i> , 2007, 21, 351-360.	2.0	0
152	Effects of dust particles on the dynamics of blobs in the scrape off layer. <i>Physics of Plasmas</i> , 2007, 14, 083704.	1.9	12
153	Electromagnetic pulse reflection at self-generated plasma mirrors: Laser pulse shaping and high order harmonic generation. <i>Physics of Plasmas</i> , 2007, 14, 093105.	1.9	9
154	Vlasov-Maxwell plasma equilibria with temperature and density gradients: Weak inhomogeneity limit. <i>Physics of Plasmas</i> , 2007, 14, 042103.	1.9	7
155	Secondary instabilities in two- and three-dimensional magnetic reconnection in fusion relevant plasmas. <i>Physics of Plasmas</i> , 2007, 14, 055703.	1.9	23
156	Collisionless magnetic reconnection. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B439-B446.	2.1	5
157	Photon Bubbles and Ion Acceleration in a Plasma Dominated by the Radiation Pressure of an Electromagnetic Pulse. <i>Physical Review Letters</i> , 2007, 99, 065002.	7.8	250
158	MAGNETIC FIELD GENERATION IN ANISOTROPIC RELATIVISTIC PLASMA REGIMES. , 2007, , .		0
159	GENERATION AND OBSERVATION OF COHERENT, LONG-LIVED STRUCTURES IN A LASER-PLASMA CHANNEL. , 2007, , .		0
160	Slow evolution of elliptical galaxies induced by dynamical friction. <i>Astronomy and Astrophysics</i> , 2006, 453, 9-19.	5.1	7
161	Non Adiabatic Evolution of Elliptical Galaxies by Dynamical Friction. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 188-188.	0.0	0
162	Enabling pulse compression and proton acceleration in a modular ICF driver for nuclear and particle physics applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 558, 430-436.	1.6	11

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163	â€œEchographyâ€•of Vlasov codes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 355, 381-385.	2.1	4
164	Multi-GeV laser driven proton acceleration in the high current regime. Nuclear Physics, Section B, Proceedings Supplements, 2006, 155, 307-308.	0.4	0
165	Three-Dimensional Magnetic Structures Generated by the Development of the Filamentation (Weibel) Instability in the Relativistic Regime. Physical Review Letters, 2006, 96, 105008.	7.8	50
166	Expansion of planar and spherical plasma bunches. Laser Physics, 2006, 16, 594-599.	1.2	7
167	Self-consistent propagation of an ultraintense e.m. wave in an electron-positron plasma. AIP Conference Proceedings, 2006, , .	0.4	0
168	Resonant evolution of the current filamentation (Weibel) instability in the relativistic regime. AIP Conference Proceedings, 2006, , .	0.4	1
169	Efficient laser acceleration of proton beams for intense sources of low energy neutrinos. AIP Conference Proceedings, 2006, , .	0.4	1
170	The generation of images of surface structures by laser-accelerated protons. Laser and Particle Beams, 2006, 24, 181-184.	1.0	8
171	Publisher's Note: Single-cycle high-intensity electromagnetic pulse generation in the interaction of a plasma wakefield with regular nonlinear structures [Phys. Rev. E73, 036408 (2006)]. Physical Review E, 2006, 73, .	2.1	1
172	Single-cycle high-intensity electromagnetic pulse generation in the interaction of a plasma wakefield with regular nonlinear structures. Physical Review E, 2006, 73, 036408.	2.1	36
173	ELECTRON PARALLEL COMPRESSIBILITY IN THE NONLINEAR DEVELOPMENT OF TWO-DIMENSIONAL COLLISIONLESS MAGNETOHYDRODYNAMIC RECONNECTION. Modern Physics Letters B, 2006, 20, 931-961.	1.9	28
174	Nonlinear DriftKinetic Evolution of the Electron Distribution Function in TwoDimensional Magnetic Reconnection. Physica Scripta, 2005, , 88.	2.5	6
175	Nonlinear generation of ultra-short electromagnetic pulses in plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 337, 107-111.	2.1	6
176	Special relativity in action in laser produced plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 347, 133-142.	2.1	14
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