Francesco Pegoraro

List of Publications by Year in descending order

369 papers	12,756 citations	28190 55 h-index	30848 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. European Physical Journal Plus, 2022, 137, 1.	1.2	0
2	Plasma physics and astrophysics: retrospects, state-of-the art, and prospects. Rendiconti Lincei, 2021, 32, 25-44.	1.0	0
3	Nonlinear waves in a dispersive vacuum described with a high order derivative electromagnetic Lagrangian. Physical Review D, 2021, 103, .	1.6	4
4	Light sail boosted by instantaneous radiation pressure. European Physical Journal Plus, 2021, 136, 1.	1.2	1
5	Theoretical and experimental aspects of non-equilibrium plasmas in different regimes: fundamentals and selected applications. European Physical Journal D, 2021, 75, 1.	0.6	13
6	Generation of high order harmonics in Heisenbergâ€“Euler electrodynamics. New Journal of Physics, 2021, 23, 105003.	1.2	6
7	Introduction to the Topical Collection â€œLincei Celebrative Essaysâ€• Rendiconti Lincei, 2021, 32, 647-654.	1.0	0
8	Nonlinear, nondispersive wave equations: Lagrangian and Hamiltonian functions in the hodograph transformation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126064.	0.9	5
9	Nonlinear electrodynamics at cylindrical â€œcumulationâ€•fronts. Rendiconti Lincei, 2020, 31, 303-313.	1.0	1
10	Lagrangian and Dirac constraints for the idealÂincompressible fluid and magnetohydrodynamics. Journal of Plasma Physics, 2020, 86, .	0.7	8
11	Electromagnetic solitons in quantum vacuum. Physical Review D, 2020, 101, .	1.6	14
12	The unusual properties of plasmas. Rivista Del Nuovo Cimento, 2020, 43, 229-279.	2.0	4
13	Hodograph solutions of the wave equation of nonlinear electrodynamics in the quantum vacuum. Physical Review D, 2019, 100, .	1.6	7
14	Counterstreaming beams in magnetised Vlasov plasma. Pramana - Journal of Physics, 2019, 93, 1.	0.9	3
15	Plasmas in extreme electromagnetic fields. Rendiconti Lincei, 2019, 30, 11-15.	1.0	5
16	Introduction: Classical and quantum plasmasâ€”matter under extreme conditions. Rendiconti Lincei, 2019, 30, 1-3.	1.0	6
17	Coherent magnetic structures in self-organized plasmas. Plasma Physics and Controlled Fusion, 2019, 61, 044003.	0.9	15
18	Electromagnetic Burst Generation during Annihilation of Magnetic Field in Relativistic Laser-Plasma Interaction. Scientific Reports, 2019, 9, 19462.	1.6	14

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19	Shear-induced pressure anisotropization and correlation with fluid vorticity in a low collisionality plasma. Monthly Notices of the Royal Astronomical Society, 2018, 475, 181-192.	1.6	40
20	Lagrangian Coherent Structures as a new frame to investigate the particle transport in highly chaotic magnetic systems. Journal of Physics: Conference Series, 2018, 1125, 012008.	0.3	3
21	Northâ€South Asymmetric Kelvinâ€Helmholtz Instability and Induced Reconnection at the Earth's Magnetospheric Flanks. Journal of Geophysical Research: Space Physics, 2018, 123, 9340-9356.	0.8	19
22	Lorentz invariant â€˜potential magnetic fieldâ€™ and magnetic flux conservation in an ideal relativistic plasma. Journal of Plasma Physics, 2018, 84, .	0.7	1
23	Instability yields bright gamma emission. Nature Photonics, 2018, 12, 314-315.	15.6	6
24	Coherent transport structures in magnetized plasmas. I. Theory. Physics of Plasmas, 2018, 25, .	0.7	12
25	Coherent transport structures in magnetized plasmas. II. Numerical results. Physics of Plasmas, 2018, 25, .	0.7	9
26	Electron Weibel instability in relativistic counterstreaming plasmas with flow-aligned external magnetic fields. Physical Review E, 2017, 95, 023203.	0.8	28
27	â€˜Magneto-elasticâ€™ waves in an anisotropic magnetised plasma. Plasma Physics and Controlled Fusion, 2017, 59, 045002.	0.9	8
28	Relativistic laser plasma interactions. European Physical Journal D, 2017, 71, 1.	0.6	1
29	Strong field electrodynamics of a thin foil. AIP Conference Proceedings, 2017, , .	0.3	0
30	Ultra-bright Î³-ray emission and dense positron production from two laser-driven colliding foils. Scientific Reports, 2017, 7, 17312.	1.6	28
31	Hamiltonian magnetohydrodynamics: Lagrangian, Eulerian, and dynamically accessible stabilityâ€”Examples with translation symmetry. Physics of Plasmas, 2016, 23, 102112.	0.7	13
32	Radiation pressure acceleration: The factors limiting maximum attainable ion energy. Physics of Plasmas, 2016, 23, .	0.7	48
33	Covariant magnetic connection hypersurfaces. Journal of Plasma Physics, 2016, 82, .	0.7	7
34	Pressure anisotropy and small spatial scales induced by velocity shear. Physical Review E, 2016, 93, 053203.	0.8	58
35	Pressure anisotropy generation in a magnetized plasma configuration with a shear flow velocity. Plasma Physics and Controlled Fusion, 2016, 58, 045007.	0.9	11
36	Lagrangian coherent structures and plasma transport processes. Journal of Plasma Physics, 2015, 81, .	0.7	23

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37	Action principle for relativistic magnetohydrodynamics. Physical Review D, 2015, 91, .	1.6	13
38	Generalised relativistic Ohm's laws, extended gauge transformations, and magnetic linking. Physics of Plasmas, 2015, 22, .	0.7	13
39	Kinetic effects in the transverse filamentation instability of pair plasmas. EPJ Web of Conferences, 2015, 105, 02005.	0.1	0
40	Enhancement of Maximum Attainable Ion Energy in the Radiation Pressure Acceleration Regime Using a Guiding Structure. Physical Review Letters, 2015, 114, 105003.	2.9	32
41	Theory and applications of the Vlasov equation. European Physical Journal D, 2015, 69, 1.	0.6	17
42	Laser-driven Rayleigh-Taylor instability: Plasmonic effects and three-dimensional structures. Physical Review E, 2015, 91, 013106.	0.8	65
43	Particle acceleration and radiation friction effects in the filamentation instability of pair plasmas. Monthly Notices of the Royal Astronomical Society, 2015, 451, 3460-3467.	1.6	12
44	Magnetohydrodynamic equilibria with incompressible flows: Symmetry approach. Physics of Plasmas, 2015, 22, .	0.7	12
45	Double-reconnected magnetic structures driven by Kelvin-Helmholtz vortices at the Earth's magnetosphere. Physics of Plasmas, 2015, 22, .	0.7	23
46	Maximum attainable ion energy in the radiation pressure acceleration regime. Proceedings of SPIE, 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. Europhysics Letters, 2014, 107, 19001.	0.7	21
49	Pressure tensor in the presence of velocity shear: Stationary solutions and self-consistent equilibria. Physics of Plasmas, 2014, 21, .	0.7	21
50	Phase space dynamics after the breaking of a relativistic Langmuir wave in a thermal plasma. European Physical Journal D, 2014, 68, 1.	0.6	8
51	Hamiltonian magnetohydrodynamics: Lagrangian, Eulerian, and dynamically accessible stabilityâ€"Theory. Physics of Plasmas, 2013, 20, .	0.7	29
52	Laser-driven ion acceleration in the radiation pressure dominated regime. , 2013, , .		0
53	Strong field electrodynamics of a thin foil. Physics of Plasmas, 2013, 20, 123114.	0.7	33
54	Response to â€œComment on â€˜Undamped electrostatic plasma wavesâ€™â€•[Phys. Plasmas 20, 034701 (2013)]. Physics of Plasmas, 2013, 20, 034702.	0.7	11

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55	Extended fluid models: Pressure tensor effects and equilibria. Physics of Plasmas, 2013, 20, .	0.7	29
56	Nonlinear evolution of the magnetized Kelvin-Helmholtz instability: From fluid to kinetic modeling. Physics of Plasmas, 2013, 20, .	0.7	48
57	Simulation studies of radiation pressure-driven light sail and shock acceleration. Proceedings of SPIE, 2013, , .	0.8	1
58	SWIFF: Space weather integrated forecasting framework. Journal of Space Weather and Space Climate, 2013, 3, A05.	1.1	21
59	Coupling between whistler waves and slow-mode solitary waves. Physics of Plasmas, 2012, 19, 052103.	0.7	7
60	On the breaking of a plasma wave in a thermal plasma. II. Electromagnetic wave interaction with the breaking plasma wave. Physics of Plasmas, 2012, 19, 113103.	0.7	17
61	On the breaking of a plasma wave in a thermal plasma. I. The structure of the density singularity. Physics of Plasmas, 2012, 19, .	0.7	22
62	Hamiltonian magnetohydrodynamics: Helically symmetric formulation, Casimir invariants, and equilibrium variational principles. Physics of Plasmas, 2012, 19, .	0.7	38
63	Double mid-latitude dynamical reconnection at the magnetopause: An efficient mechanism allowing solar wind to enter the Earth's magnetosphere. Europhysics Letters, 2012, 100, 69001.	0.7	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. Physical Review Letters, 2012, 109, 155005.	2.9	12
66	Radiation-pressure-dominant acceleration: Polarization and radiation reaction effects and energy increase in three-dimensional simulations. Physical Review E, 2012, 85, 016407.	0.8	63
67	Ion acceleration from thin foil and extended plasma targets by slow electromagnetic wave and related ion-ion beam instability. Physics of Plasmas, 2012, 19, .	0.7	32
68	The role of the magnetosonic Mach number on the evolution of Kelvin-Helmholtz vortices. EAS Publications Series, 2012, 58, 91-94.	0.3	2
69	Magnetic reconnection and Kelvinâ€“Helmholtz instabilities at the Earth's magnetopause. Plasma Physics and Controlled Fusion, 2012, 54, 124037.	0.9	44
70	Covariant form of the ideal magnetohydrodynamic â€œconnection theoremâ€•in a relativistic plasma. Europhysics Letters, 2012, 99, 35001.	0.7	20
71	Dynamics of Self-Generated, Large Amplitude Magnetic Fields Following High-Intensity Laser Matter Interaction. Physical Review Letters, 2012, 109, 205002.	2.9	70
72	Magnetised Kelvin-Helmholtz instability in the intermediate regime between subsonic and supersonic regimes. Physics of Plasmas, 2012, 19, .	0.7	16

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73	Undamped electrostatic plasma waves. Physics of Plasmas, 2012, 19, .	0.7	37
74	Solitary versus shock wave acceleration in laser-plasma interactions. Physical Review E, 2012, 85, 046402.	0.8	40
75	Zonal-meridional decomposition and the Hamiltonian description of planetary fluid dynamics. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2122-2131.	1.7	1
76	Compressible Kelvin-Helmholtz instability in supermagnetosonic regimes. Journal of Geophysical Research, 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-Î² compact toroids. Physics of Plasmas, 2011, 18, .	0.7	56
78	Fundamental properties of plasma flows in MPD thrusters. , 2011, , .		0
79	Radiation reaction effects on electron nonlinear dynamics and ion acceleration in laserâ€“solid interaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 181-185.	0.7	61
80	Phase-locked ions and foil transparency in the radiation pressure acceleration regime. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 153-155.	0.7	2
81	Plasma equilibria with multiple ion species: Equations and algorithm. Physics of Plasmas, 2011, 18, .	0.7	32
82	Radiation friction modeling in superintense laser-plasma interactions. , 2011, , .		1
83	New Ion-Wave Path in the Energy Cascade. Physical Review Letters, 2011, 106, 165002.	2.9	37
84	Nonlinear vortex dynamics in an inhomogeneous magnetized plasma with a sheared velocity field. Plasma Physics and Controlled Fusion, 2011, 53, 015003.	0.9	16
85	Finite Larmor radius effects in the nonlinear dynamics of collisionless magnetic reconnection. Plasma Physics and Controlled Fusion, 2011, 53, 035008.	0.9	18
86	Excitation of nonlinear electrostatic waves with phase velocity close to the ion-thermal speed. Plasma Physics and Controlled Fusion, 2011, 53, 105017.	0.9	12
87	Overview of FTU results. Nuclear Fusion, 2011, 51, 094015.	1.6	10
88	2D continuous spectrum of shear AlfvÃ©n waves in the presence of a magnetic island. Plasma Physics and Controlled Fusion, 2011, 53, 025009.	0.9	16
89	Barriers in the transition to global chaos in collisionless magnetic reconnection. II. Field line spectroscopy. Physics of Plasmas, 2011, 18, .	0.7	9
90	Kelvin-Helmholtz vortices and secondary instabilities in super-magnetosonic regimes. Annales Geophysicae, 2011, 29, 1169-1178.	0.6	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. Physics of Plasmas, 2011, 18, .	0.7	23
92	Barriers to field line transport in 3D magnetic configurations. Journal of Physics: Conference Series, 2010, 260, 012012.	0.3	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. Plasma Physics Reports, 2010, 36, 15-29.	0.3	17
95	Nonlinear processes in Hamiltonian reconnection. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2-9.	1.7	8
96	Radiation pressure acceleration of ultrathin foils. New Journal of Physics, 2010, 12, 045013.	1.2	120
97	Radiation pressure and radiation reaction effects in laser-solid interaction. Proceedings of SPIE, 2010, , .	0.8	0
98	On the transition between the Weibel and the whistler instabilities. Plasma Physics and Controlled Fusion, 2010, 52, 095007.	0.9	9
99	MHD equilibrium variational principles with symmetry. Plasma Physics and Controlled Fusion, 2010, 52, 055001.	0.9	36
100	Hamiltonian four-field model for magnetic reconnection: nonlinear dynamics and extension to three dimensions with externally applied fields. Nuclear Fusion, 2010, 50, 034007.	1.6	34
101	Observation of Magnetized Soliton Remnants in the Wake of Intense Laser Pulse Propagation through Plasmas. Physical Review Letters, 2010, 105, 175002.	2.9	37
102	Radiation reaction effects on radiation pressure acceleration. New Journal of Physics, 2010, 12, 123005.	1.2	212
103	Continuous Spectrum of Shear AlfvÃ©n Waves within Magnetic Islands. Physical Review Letters, 2010, 105, 095002.	2.9	32
104	Magnetized plasma flows and magnetoplasmadynamic thrusters. Physics of Plasmas, 2010, 17, .	0.7	4
105	Symmetries, weak symmetries, and related solutions of the Gradâ€“Shafranov equation. Physics of Plasmas, 2010, 17, .	0.7	15
106	Collisionless magnetic reconnection in the presence of a sheared velocity field. Physics of Plasmas, 2010, 17, .	0.7	20
107	MHD plasma acceleration in plasma thrusters: a variational approach. AIP Conference Proceedings, 2010, , .	0.3	1
108	The application of laser-driven proton beams to the radiography of intense laserâ€“hohlraum interactions. New Journal of Physics, 2010, 12, 045006.	1.2	38

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109	Nonlinear kinetic dynamics of magnetized weibel instability. Journal of Physics: Conference Series, 2010, 208, 012075.	0.3	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.	2.9	140
114	Dynamic Formation of a Hot Field Reversed Configuration with Improved Confinement by Supersonic Merging of Two Colliding High-Î²Compact Toroids. Physical Review Letters, 2010, 105, 045003.	2.9	103
115	Unlimited energy gain in the laser-driven radiation pressure dominant acceleration of ions. Physics of Plasmas, 2010, 17, .	0.7	37
116	Shear AlfvÃ©n wave continuous spectrum within magnetic islands. Physics of Plasmas, 2010, 17, .	0.7	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.	0.6	14
118	Coupling between reconnection and Kelvin-Helmholtz instabilities in collisionless plasmas. Nonlinear Processes in Geophysics, 2009, 16, 241-249.	0.6	14
119	Nonlinear kinetic development of the Weibel instability and the generation of electrostatic coherent structures. Plasma Physics and Controlled Fusion, 2009, 51, 125006.	0.9	34
120	Overview of the FTU results. Nuclear Fusion, 2009, 49, 104013.	1.6	24
121	Being on time in magnetic reconnection. New Journal of Physics, 2009, 11, 063008.	1.2	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.	0.3	21
125	Stability of a plasma foil in the radiation pressure dominated regime. European Physical Journal D, 2009, 55, 399-405.	0.6	5
126	Application of proton radiography in experiments of relevance to inertial confinement fusion. European Physical Journal D, 2009, 55, 299-303.	0.6	10

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127	Relativistic laser-matter interaction and relativistic laboratory astrophysics. European Physical Journal D, 2009, 55, 483-507.	0.6	109
128	Comment on â€œSignatures of the Unruh effect via high-power, short-pulse lasersâ€• European Physical Journal D, 2009, 55, 391-391.	0.6	0
129	Ion acceleration and stability in the radiation pressure dominated regime. Laser Physics, 2009, 19, 222-227.	0.6	7
130	â€œLight Sailâ€•Acceleration Reexamined. Physical Review Letters, 2009, 103, 085003.	2.9	292
131	Model of the symmetry evolution of a nonlinear continuous system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3456-3460.	0.9	0
132	On the stability of spatially uniform Langmuir oscillations of electronic plasmas. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 158-162.	1.7	1
133	Bandwidth enhancement for parametric amplifiers operated in chirped multi-beam mode. Optics Communications, 2008, 281, 4993-4997.	1.0	4
134	Vlasov equilibria: Varying the temperature or the density distributions. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 147-152.	1.7	4
135	Plasma kinetics issues in an ESA study for a plasma laboratory in space. Plasma Physics and Controlled Fusion, 2008, 50, 074016.	0.9	1
136	On the variational approach to axisymmetric magnetohydrodynamic equilibria. Physics of Plasmas, 2008, 15, 092108.	0.7	9
137	Active magnetic experiment: a magnetic bubble in the ionospheric stream. Plasma Sources Science and Technology, 2008, 17, 024006.	1.3	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. Physics of Plasmas, 2008, 15, .	0.7	21
142	Effects of the parallel electron dynamics and finite ion temperature on the plasma blob propagation in the scrape-off layer. Physics of Plasmas, 2008, 15, .	0.7	25
143	Solutions and symmetries of force-free magnetic fields. Physics of Plasmas, 2008, 15, .	0.7	21
144	Time Window for Magnetic Reconnection in Plasma Configurations with Velocity Shear. Physical Review Letters, 2008, 101, 175003.	2.9	25

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145	Competing Mechanisms of Plasma Transport in Inhomogeneous Configurations with Velocity Shear: The Solar-Wind Interaction with Earthâ€™s Magnetosphere. Physical Review Letters, 2008, 100, 015001.	2.9	54
146	Numerical Evidence of Undriven, Fast Reconnection in the Solar-Wind Interaction with Earthâ€™s Magnetosphere: Formation of Electromagnetic Coherent Structures. Physical Review Letters, 2008, 101, 105001.	2.9	35
147	Collisionless Kelvin-Helmholtz instability and vortex-induced reconnection in the external region of the Earth magnetotail. Journal of Physics: Conference Series, 2008, 133, 012024.	0.3	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. International Journal of Modern Physics B, 2007, 21, 351-360.	1.0	0
152	Effects of dust particles on the dynamics of blobs in the scrape off layer. Physics of Plasmas, 2007, 14, 083704.	0.7	12
153	Electromagnetic pulse reflection at self-generated plasma mirrors: Laser pulse shaping and high order harmonic generation. Physics of Plasmas, 2007, 14, 093105.	0.7	9
154	Vlasov-Maxwell plasma equilibria with temperature and density gradients: Weak inhomogeneity limit. Physics of Plasmas, 2007, 14, 042103.	0.7	7
155	Secondary instabilities in two- and three-dimensional magnetic reconnection in fusion relevant plasmas. Physics of Plasmas, 2007, 14, 055703.	0.7	23
156	Collisionless magnetic reconnection. Plasma Physics and Controlled Fusion, 2007, 49, B439-B446.	0.9	5
157	Photon Bubbles and Ion Acceleration in a Plasma Dominated by the Radiation Pressure of an Electromagnetic Pulse. Physical Review Letters, 2007, 99, 065002.	2.9	250
158	MAGNETIC FIELD GENERATION IN ANISOTROPIC RELATIVISTIC PLASMA REGIMES. , 2007, , .		0
159	GENERATION AND OBSERVATION OF COHERENT, LONGâ€“LIVED STRUCTURES IN A LASERâ€“PLASMA CHANNEL. , 2007, , .		0
160	Slow evolution of elliptical galaxies induced by dynamical friction. Astronomy and Astrophysics, 2006, 453, 9-19.	2.1	7
161	Non Adiabatic Evolution of Elliptical Galaxies by Dynamical Friction. Proceedings of the International Astronomical Union, 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. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 558, 430-436.	0.7	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.	0.9	4
164	Multi-GeV laser driven proton acceleration in the high current regime. Nuclear Physics, Section B, Proceedings Supplements, 2006, 155, 307-308.	0.5	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.	2.9	50
166	Expansion of planar and spherical plasma bunches. Laser Physics, 2006, 16, 594-599.	0.6	7
167	Self-consistent propagation of an ultraintense e.m. wave in an electron-positron plasma. AIP Conference Proceedings, 2006, , .	0.3	0
168	Resonant evolution of the current filamentation (Weibel) instability in the relativistic regime. AIP Conference Proceedings, 2006, , .	0.3	1
169	Efficient laser acceleration of proton beams for intense sources of low energy neutrinos. AIP Conference Proceedings, 2006, , .	0.3	1
170	The generation of images of surface structures by laser-accelerated protons. Laser and Particle Beams, 2006, 24, 181-184.	0.4	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, .	0.8	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.	0.8	36
173	ELECTRON PARALLEL COMPRESSIBILITY IN THE NONLINEAR DEVELOPMENT OF TWO-DIMENSIONAL COLLISIONLESS MAGNETOHYDRODYNAMIC RECONNECTION. Modern Physics Letters B, 2006, 20, 931-961.	1.0	28
174	Nonlinear DriftKinetic Evolution of the Electron Distribution Function in TwoDimensional Magnetic Reconnection. Physica Scripta, 2005, , 88.	1.2	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.	0.9	6
176	Special relativity in action in laser produced plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 347, 133-142.	0.9	14
177	Neutrino oscillation studies with laser-driven beam dump facilities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 540, 25-41.	0.7	41
178	Fluid and kinetic simulation of inertial confinement fusion plasmas. Computer Physics Communications, 2005, 169, 153-159.	3.0	88
179	Laser-triggered ion acceleration at moderate intensity and pulse duration. Applied Physics B: Lasers and Optics, 2005, 81, 537-542.	1.1	5
180	Laser-driven proton sources: technological challenges and applications to neutrino physics. Nuclear Physics, Section B, Proceedings Supplements, 2005, 143, 572.	0.5	3

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181	Symmetry properties of a system of Euler-type equations for magnetized plasmas. Journal of Physics A, 2005, 38, 4597-4610.	1.6	6
182	Current layer cascade in collisionless electron-magnetohydrodynamic reconnection and electron compressibility effects. Physics of Plasmas, 2005, 12, 012317.	0.7	29
183	Attosecond electromagnetic pulse generation due to the interaction of a relativistic soliton with a breaking-wake plasma wave. Physical Review E, 2005, 71, 036404.	0.8	10
184	Aspects of three-dimensional magnetic reconnection. Physics of Plasmas, 2005, 12, 032309.	0.7	49
185	Mixing of the Electron Distribution Function in Nonlinear 2D Magnetic Reconnection. Transport Theory and Statistical Physics, 2005, 34, 243-259.	0.4	7
186	Charged state of a spherical plasma in vacuum. Physical Review E, 2005, 71, 056407.	0.8	12
187	Two-dimensional Harrisâ€“Liouville plasma kinetic equilibria. Physics of Plasmas, 2005, 12, 052506.	0.7	11
188	Plasma Ion Evolution in the Wake of a High-Intensity Ultrashort Laser Pulse. Physical Review Letters, 2005, 94, 195003.	2.9	36
189	Damping of electromagnetic waves due to electron-positron pair production. Physical Review E, 2005, 71, 016404.	0.8	43
190	Expansion of a finite-size plasma in vacuum. Plasma Physics and Controlled Fusion, 2005, 47, 521-529.	0.9	48
191	Filamentation Instability of Thin Current Sheets in Low Plasmas. Physica Scripta, 2005, , 67.	1.2	2
192	Secondary Instabilities in Two-Dimensional Collisionless Magnetic Field Line Reconnection in a Fluid Plasma. AIP Conference Proceedings, 2004, , .	0.3	0
193	Interaction of Charged Particles with Strong Electromagnetic Waves in the Radiation Dominated Regime. AIP Conference Proceedings, 2004, , .	0.3	0
194	Developments in the theory of collisionless reconnection in magnetic configurations with a strong guide field. Nonlinear Processes in Geophysics, 2004, 11, 567-577.	0.6	12
195	Predicting the behaviour of magnetic reconnection processes in fusion burning plasma experiments. Nuclear Fusion, 2004, 44, 362-371.	1.6	8
196	Foliation and mixing of the electron drift-kinetic distribution function in nonlinear two-dimensional magnetic reconnection. Physics of Plasmas, 2004, 11, 3535-3545.	0.7	19
197	Publisherâ€™s Note: Production of high-quality electron beams in numerical experiments of laser wakefield acceleration with longitudinal wave breaking [Phys. Rev. ST Accel. Beams6, 121301 (2003)]. Physical Review Special Topics: Accelerators and Beams, 2004, 7, .	1.8	0
198	Production of ion beams in high-power laserâ€“plasma interactions and their applications. Laser and Particle Beams, 2004, 22, 19-24.	0.4	21

#	Article	IF	Citations
199	Laser wake field acceleration with controlled self-injection by sharp density transition. Laser and Particle Beams, 2004, 22, 423-429.	0.4	22
200	Feasibility of Using Laser Ion Accelerators in Proton Therapy. AIP Conference Proceedings, 2004, , .	0.3	29
201	Nonlinear evolution of a relativistically strong electromagnetic wave in self-created electron-positron plasma. JETP Letters, 2004, 80, 734-738.	0.4	11
202	Numerical solution of a reduced model of collisionless magnetic reconnection in two and three dimensions. Computer Physics Communications, 2004, 164, 23-28.	3.0	0
203	Magnetic Reconnection: Collisionless Regimes. Physica Scripta, 2004, T107, 153.	1.2	5
204	Generation and Propagation of High Quality Proton Beams Produced by Laser Plasma Interactions. Physica Scripta, 2004, T107, 130.	1.2	1
205	Slow evolution of quasi-collisionless systems of stars induced by dynamical friction on a minority population of heavier objects. AIP Conference Proceedings, 2004, , .	0.3	1
206	Structurally unstable magnetic configurations in the three-dimensional geometry. Doklady Physics, 2003, 48, 216-220.	0.2	5
207	Nondrifting relativistic electromagnetic solitons in plasmas. Laser and Particle Beams, 2003, 21, 541-544.	0.4	6
208	Small Scale Processes and Macroscopic Effects in Collisionless Plasmas. Transport Theory and Statistical Physics, 2003, 32, 413-425.	0.4	3
209	Numerical and theoretical studies on basic issues for fast ignition: from fast particle generation to beam driven ignition. , 2003, , .		0
210	Propagation of a short proton beam through a thin plasma slab. Physical Review E, 2003, 68, 066406.	0.8	5
211	Production of high-quality electron beams in numerical experiments of laser wakefield acceleration with longitudinal wave breaking. Physical Review Special Topics: Accelerators and Beams, 2003, 6, .	1.8	71
212	Secondary Instabilities and Vortex Formation in Collisionless-Fluid Magnetic Reconnection. Physical Review Letters, 2003, 91, 235001.	2.9	56
213	Fundamental issues in fast ignition physics: from relativistic electron generation to proton driven ignition. Nuclear Fusion, 2003, 43, 362-368.	1.6	52
214	Slow evolution of elliptical galaxies induced by dynamical friction. Astronomy and Astrophysics, 2003, 405, 73-88.	2.1	17
215	Stability of a mass accreting shell expanding in a plasma. Physical Review E, 2002, 65, 066405.	0.8	15
216	Polarization effects and anisotropy in three-dimensional relativistic self-focusing. Physical Review E, 2002, 65, 045402.	0.8	24

#	Article	IF	Citations
217	Two-surface wave decay. Physics of Plasmas, 2002, 9, 1704-1711.	0.7	29
218	Current sheet formation in three-dimensional magnetic configurations. Physics of Plasmas, 2002, 9, 3835-3850.	0.7	9
219	Kinetic regimes of high frequency magnetic reconnection in a neutral sheet configuration. Physics of Plasmas, 2002, 9, 458-464.	0.7	10
220	Some recent developments in nonlinear relativistic plasma dynamics. AIP Conference Proceedings, 2002, , .	0.3	0
221	Relativistic interaction of ultra-short laser pulses with plasmas. AIP Conference Proceedings, 2002, , .	0.3	0
222	Relativistic Electromagnetic Solitons Produced by Ultrastrong Laser Pulses in Plasmas. AIP Conference Proceedings, 2002, , .	0.3	4
223	Surface effects in laser interaction with overdense plasmas. AIP Conference Proceedings, 2002, , .	0.3	0
224	Transformation of laser radiation into post-solitons with ion acceleration. AIP Conference Proceedings, 2002, , .	0.3	2
225	Three-dimensional electromagnetic solitary waves in an underdense plasma in PIC simulations. AIP Conference Proceedings, 2002, , .	0.3	2
226	A Three Dimensional Simulation of Solitary Waves in the Laser Wake. AIP Conference Proceedings, 2002, , .	0.3	0
227	Electric field detection in laser-plasma interaction experiments via the proton imaging technique. Physics of Plasmas, 2002, 9, 2214-2220.	0.7	378
228	Nonlinear model for electron phase-space holes in magnetized space plasmas. Journal of Geophysical Research, 2002, 107, SMP 15-1.	3.3	29
229	Proposed Double-Layer Target for the Generation of High-Quality Laser-Accelerated Ion Beams. Physical Review Letters, 2002, 89, 175003.	2.9	275
230	Macroscopic Evidence of Soliton Formation in Multiterawatt Laser-Plasma Interaction. Physical Review Letters, 2002, 88, 135002.	2.9	199
231	Recent advances in collisionless magnetic reconnection. Plasma Physics and Controlled Fusion, 2002, 44, B389-B405.	0.9	84
232	Parametric generation of surface deformations in laser interaction with overdense plasmas. Laser and Particle Beams, 2002, 20, 337-340.	0.4	5
233	Ion acceleration, magnetic field line reconnection, and multiple current filament coalescence of a relativistic electron beam in a plasma. Physics of Plasmas, 2002, 9, 2959-2970.	0.7	33
234	Nonlinear relativistic optics in the single cycle, single wavelength regime and kilohertz repetition rate. AIP Conference Proceedings, 2002, , .	0.3	1

#	Article	IF	Citations
235	Reconnection processes in a laser plasma in the presence of counterstreaming electrons. AIP Conference Proceedings, 2002, , .	0.3	0
236	Oncological hadrontherapy with laser ion accelerators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 299, 240-247.	0.9	456
237	Magnetized electron-whistler holes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 303, 52-60.	0.9	2
238	On the design of experiments for the study of relativistic nonlinear optics in the limit of single-cycle pulse duration and single-wavelength spot size. Plasma Physics Reports, 2002, 28, 12-27.	0.3	55
239	Generation of high-quality charged particle beams during the acceleration of ions by high-power laser radiation. Plasma Physics Reports, 2002, 28, 975-991.	0.3	53
240	Three-Dimensional Relativistic Electromagnetic Subcycle Solitons. Physical Review Letters, 2002, 89, 275002.	2.9	96
241	Fast Ignition by Intense Laser-Accelerated Proton Beams. Physical Review Letters, 2001, 86, 436-439.	2.9	1,154
242	Computer Simulation of the Three-Dimensional Regime of Proton Acceleration in the Interaction of Laser Radiation with a Thin Spherical Target. Plasma Physics Reports, 2001, 27, 363-371.	0.3	86
243	Formation of Electromagnetic Postsolitons in Plasmas. Physical Review Letters, 2001, 87, .	2.9	105
244	Phase Mixing and Island Saturation in Hamiltonian Reconnection. Physical Review Letters, 2001, 86, 5051-5054.	2.9	81
245	Fast Formation of Magnetic Islands in a Plasma in the Presence of Counterstreaming Electrons. Physical Review Letters, 2001, 86, 5293-5296.	2.9	61
246	Relativistic Interaction of Laser Pulses with Plasmas. Reviews of Plasma Physics, 2001, , 227-335.	1.0	67
247	Nonlinear relativistic optics in the single-cycle, single-wavelength regime with kilohertz repetition rate. , 2001, , .		0
248	Surface Oscillations in Overdense Plasmas Irradiated by Ultrashort Laser Pulses. Physical Review Letters, 2001, 87, 205004.	2.9	64
249	Generation of subcycle relativistic solitons by super intense laser pulses in plasmas. Physica D: Nonlinear Phenomena, 2001, 152-153, 682-693.	1.3	28
250	Three-dimensional MHD simulations of forced magnetic reconnection. Plasma Physics Reports, 2001, 27, 315-322.	0.3	2
251	Modelling of macroscopic magnetic islands in tokamaks. Nuclear Fusion, 2001, 41, 1207-1218.	1.6	5
252	Polarization, hosing and long time evolution of relativistic laser pulses. Physics of Plasmas, 2001, 8, 4149-4155.	0.7	63

#	Article	IF	Citations
253	Perpendicular electron trapping associated with nonlinear whistlers. Physics of Plasmas, 2001, 8, 3217-3226.	0.7	7
254	Charge separation effects in electron-magnetohydrodynamic reconnection. Physics of Plasmas, 2001, 8, 16-22.	0.7	18
255	Three-dimensional singularities of a thin plasma slab. Physical Review E, 2001, 64, 016415.	0.8	13
256	Magnetic Fields and Solitons in Relativistic Plasmas. , 2001, , 233-247.		1
257	Fast Collisionless Magnetic Reconnection: Fluid Regime and Kinetic Effects. Physica Scripta, 2001, T98, 72.	1.2	0
258	Electromagnetic drift-BGK Structures Induced by Magnetic Shear. Physica Scripta, 2000, T84, 98.	1.2	0
259	Vlasov-Poisson Numerical Simulations of Wave-Particle Interactions in the Relativistic Regime. Physica Scripta, 2000, T84, 168.	1.2	1
260	Coulomb explosion of a cluster irradiated by a high intensity laser pulse. Laser and Particle Beams, 2000, 18, 503-506.	0.4	22
261	Nonlinear electromagnetic phenomena in the relativistic interaction of ultrahigh intensity laser pulses with plasmas. Laser and Particle Beams, 2000, 18, 381-387.	0.4	2
262	Generation of collimated beams of relativistic ions in laser-plasma interactions. JETP Letters, 2000, 71, 407-411.	0.4	81
263	Ion Larmor radius effects in collisionless reconnection. Plasma Physics Reports, 2000, 26, 512-518.	0.3	23
264	Formation of current sheets in structurally stable and structurally unstable magnetic configurations with two null lines. Plasma Physics Reports, 2000, 26, 560-574.	0.3	2
265	Ion acceleration regimes in underdense plasmas. IEEE Transactions on Plasma Science, 2000, 28, 1226-1232.	0.6	14
266	Coherent Electromagnetic Structures in Relativistic Plasmas. Physica Scripta, 2000, T84, 89.	1.2	10
267	Motion of extended vortices in an inhomogeneous pure electron plasma. Physics of Plasmas, 2000, 7, 2856-2865.	0.7	12
268	Two-dimensional electron-magnetohydrodynamic nonlinear structures. Physics of Plasmas, 2000, 7, 889-896.	0.7	19
269	Impact of Kinetic Processes on the Macroscopic Nonlinear Evolution of the Electromagnetic-Beam-Plasma Instability. Physical Review Letters, 2000, 84, 3602-3605.	2.9	27
270	Asymptotic evolution of nonlinear Landau damping. Physical Review E, 2000, 62, 4109-4114.	0.8	67

#	Article	IF	Citations
271	Fast collisionless reconnection in the whistler frequency range. Physics of Plasmas, 2000, 7, 2381-2387.	0.7	47
272	Bernsteinâ€“Greeneâ€“Kruskal chain of drift-tearing vortices. Physics of Plasmas, 2000, 7, 580-587.	0.7	3
273	High density collimated beams of relativistic ions produced by petawatt laser pulses in plasmas. Physical Review E, 2000, 62, 7271-7281.	0.8	114
274	Kinetic Vortex Chain Solution in the Drift-Wave Plasma Regime. Physical Review Letters, 2000, 84, 95-98.	2.9	15
275	Dynamics of coherent structures in a Penning-Malmberg trap with 2D Vlasov simulations. , 1999, , .		0
276	A wave-particle interaction model for tail ion acceleration in reversed field pinch plasmas. Plasma Physics and Controlled Fusion, 1999, 41, 1485-1496.	0.9	3
277	Hamiltonian magnetic reconnection. Plasma Physics and Controlled Fusion, 1999, 41, 1497-1515.	0.9	71
278	Small-scale electron density and magnetic-field structures in the wake of an ultraintense laser pulse. Physical Review E, 1999, 60, 5991-5997.	0.8	34
279	Drift-AlfvÃ©n vortices with finite ion gyroradius and electron inertia effects. Physics of Plasmas, 1999, 6, 713-728.	0.7	18
280	On the structural stability of magnetic configurations with two null lines. Physics of Plasmas, 1999, 6, 802-815.	0.7	9
281	Bursts of Superreflected Laser Light from Inhomogeneous Plasmas due to the Generation of Relativistic Solitary Waves. Physical Review Letters, 1999, 83, 3434-3437.	2.9	101
282	Ion acceleration by superintense laser pulses in plasmas. JETP Letters, 1999, 70, 82-89.	0.4	83
283	Two-dimensional electron-magnetohydrodynamic instabilities. Physics of Plasmas, 1999, 6, 2332-2339.	0.7	23
284	Solitonlike Electromagnetic Waves behind a Superintense Laser Pulse in a Plasma. Physical Review Letters, 1999, 82, 3440-3443.	2.9	154
285	Periodic equilibria of the Vlasovâ€“Maxwell system. Physics of Plasmas, 1999, 6, 767-770.	0.7	38
286	Singularities in the Rayleigh-Taylor instability of a thin plasma slab. Physical Review E, 1999, 59, 2292-2301.	0.8	10
287	A 2D Vlasov code for the electron dynamics in a Penning-Malmberg trap. , 1999, , .		1
288	Nonlinear filamentation instability driven by an inhomogeneous current in a collisionless plasma. Physical Review E, 1998, 58, 7837-7845.	0.8	92

#	Article	IF	Citations
289	On the theory of ionization of a thin foil by a laser pulse. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 245, 439-444.	0.9	8
290	Variety of nonlinear wave-breaking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 410, 477-487.	0.7	8
291	Nonlinear interaction of ultra-intense laser pulses with a thin foil. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 410, 493-498.	0.7	11
292	Nonlinear electrodynamics of the interaction of ultra-intense laser pulses with a thin foil. Physics of Plasmas, 1998, 5, 2727-2741.	0.7	280
293	Interaction of strong laser pulses with a thin slab of overdense plasma. , 1998, , .		0
294	Magnetic Field Generation during the Collision of Electron-Ion Plasma Clouds. Journal of the Physical Society of Japan, 1998, 67, 1079-1082.	0.7	25
295	Forced magnetic field line reconnection in electron magnetohydrodynamics. Physics of Plasmas, 1998, 5, 2849-2860.	0.7	52
296	Kinetic saturation of the Weibel instability in a collisionless plasma. Physical Review E, 1998, 57, 7048-7059.	0.8	119
297	Particle injection into the wave acceleration phase due to nonlinear wake wave breaking. Physical Review E, 1998, 58, R5257-R5260.	0.8	381
298	Models of many-element electron cyclotron resonance plasmas. Review of Scientific Instruments, 1998, 69, 1123-1125.	0.6	4
299	Invariants and Geometric Structures in Nonlinear Hamiltonian Magnetic Reconnection. Physical Review Letters, 1998, 80, 4430-4433.	2.9	120
300	Non-linear Weibel instability in the interaction of an underdense plasma with a â€œrelativisticâ€•laser pulse. , 1998, , .		1
301	Ultra intense magnetic fields in laser plasma interaction: their generation and influence on light propagation. , 1998, , .		2
302	Coherent Nonlinear Electromagnetic Drift-mode Structures. Physica Scripta, 1998, T75, 182.	1.2	5
303	Hamiltonian vortices and reconnection in a magnetized plasma. Journal of Plasma Physics, 1998, 59, 727-736.	0.7	33
304	Magnetic-field generation and wave-breaking in collisionless plasmas. Journal of Plasma Physics, 1998, 60, 331-339.	0.7	10
305	Tripolar shear-AlfvÃ©n vortex structures. Journal of Plasma Physics, 1998, 60, 383-391.	0.7	15
306	Hamiltonian Model of Magnetic Reconnection. Physica Scripta, 1998, T75, 200.	1.2	0

#	Article	IF	Citations
307	Magnetic interaction of ultrashort high-intensity laser pulses in plasmas. Plasma Physics and Controlled Fusion, 1997, 39, A137-A144.	0.9	13
308	Relativistic laser plasma interactions: Pulse shape modification and magnetic field generation. AIP Conference Proceedings, 1997, , .	0.3	1
309	Transverse-Wake Wave Breaking. Physical Review Letters, 1997, 78, 4205-4208.	2.9	260
310	Magnetic fields from high-intensity laser pulses in plasmas. Plasma Physics and Controlled Fusion, 1997, 39, B261-B272.	0.9	23
311	Charged particle acceleration in nonuniform plasmas. , 1997, , .		1
312	Spatial structure and time evolution of the Weibel instability in collisionless inhomogeneous plasmas. Physical Review E, 1997, 56, 963-969.	0.8	114
313	Electron inertia and small-scale magnetic structures in a nonuniform collisionless plasma. Advances in Space Research, 1997, 19, 1823-1826.	1.2	8
314	Ignition Physics and the Ignitor Project. , 1997, , 125-134.		3
315	Controlled wake field acceleration via laser pulse shaping. IEEE Transactions on Plasma Science, 1996, 24, 393-399.	0.6	35
316	Electron Vortices Produced by Ultraintense Laser Pulses. Physical Review Letters, 1996, 76, 3562-3565.	2.9	115
317	Magnetic interaction and magnetic wake of high intensity laser pulses in plasmas. Physica Scripta, 1996, T63, 280-283.	1.2	6
318	Nonlinear development of the weibel instability and magnetic field generation in collisionless plasmas. Physica Scripta, 1996, T63, 262-265.	1.2	70
319	Evolution of the frequency spectrum of a relativistically strong laser pulse in a plasma. Physica Scripta, 1996, T63, 258-261.	1.2	11
320	Heating and acceleration atX-point reconnection. Physica Scripta, 1996, T63, 197-202.	1.2	9
321	Change of the Frequency Spectrum of Relativistically Strong Laser Pulses During Their Interaction with a Plasma. , 1996, , 503-512.		0
322	Report on the International Symposium â€œEvaluation of Current Trends in Fusion Researchâ€• Journal of Fusion Energy, 1995, 14, 281-327.	0.5	1
323	Resistive modes at a magnetic X-point. Plasma Physics and Controlled Fusion, 1995, 37, 103-116.	0.9	6
324	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.	2.9	105

#	Article	IF	Citations
325	Scale-invariant plasma motions near X-points. , 1995, , 295-300.		2
326	Generalized twoâ€fluid theory of nonlinear magnetic structures. Physics of Plasmas, 1994, 1, 2843-2852.	0.7	134
327	Hamiltonian formulation of low-frequency, nonlinear plasma dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 191, 296-300.	0.9	59
328	Short, relativistically strong laser pulse in a narrow channel. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 195, 84-89.	0.9	27
329	Interaction of an ultrashort, relativistically strong laser pulse with an overdense plasma. Physics of Plasmas, 1994, 1, 745-757.	0.7	438
330	Implications of Fusion Plasma Studies to Other Collective Nonequilibrium Systems. Fusion Science and Technology, 1994, 26, 1243-1249.	0.6	3
331	Linear stability of spherical collisionless stellar systems. Astrophysical Journal, 1994, 434, 94.	1.6	44
332	Conformal magnetosonic waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 180, 275-279.	0.9	7
333	Long-wavelength limit of the EMHD tearing mode. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1993, 15, 739-752.	0.4	1
334	Transformation of MHD modes near magnetic separatrix surfaces. Plasma Physics and Controlled Fusion, 1992, 34, 33-48.	0.9	20
335	Magnetic reconnection in electron magnetohydrodynamics. Physics of Fluids B, 1992, 4, 2499-2508.	1.7	147
336	Stabilization of collisional driftâ€tearing modes at the breakdown of the constantâ€Ï¨ approximation. Physics of Fluids B, 1991, 3, 1338-1345.	1.7	28
337	Large gyroradius m=1 AlfvÃ©n modes and energetic particles. Physics of Fluids B, 1991, 3, 1319-1325.	1.7	4
338	Symmetries and global transport equations. Physics of Fluids B, 1991, 3, 2582-2590.	1.7	4
339	MHD modes near the X-line of a magnetic configuration. Plasma Physics and Controlled Fusion, 1990, 32, 377-389.	0.9	24
340	Global modes and highâ€energy particles in ignited plasmas. Physics of Fluids B, 1990, 2, 927-943.	1.7	50
341	Quiescent window for global plasma modes. Physical Review Letters, 1989, 63, 2733-2736.	2.9	56
342	Extended variable representations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 142, 384-388.	0.9	11

#	Article	IF	Citations
343	Internal kink modes in the ionâ€kinetic regime. Physics of Fluids B, 1989, 1, 364-374.	1.7	64
344	Suppression of internal plasma oscillations by trapped high energy nuclei. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 132, 267-272.	0.9	37
345	Quasilinear energy balance of resistive modes. Physics of Fluids, 1987, 30, 3506.	1.4	5
346	Theory of resistive modes in the ballooning representation. Plasma Physics and Controlled Fusion, 1986, 28, 647-667.	0.9	69
347	High-energy components and collective modes in thermonuclear plasmas. Physics of Fluids, 1986, 29, 4060.	1.4	74
348	Equation of state for relativistic plasma waves. Physics of Fluids, 1984, 27, 1665.	1.4	19
349	Spatial diffusion of charged high-energy fusion products by shear AlfvÃ©n perturbations. Nuclear Fusion, 1983, 23, 407-423.	1.6	0
350	Instability of Fusing Plasmas and Spin-Depolarization Processes. Physical Review Letters, 1983, 51, 892-895.	2.9	9
351	Nonadiabatic particle response in toroidal geometry. Physics of Fluids, 1982, 25, 1871.	1.4	8
352	A description of the gravitational red shift borrowed from the electrodynamics of continuous media. General Relativity and Gravitation, 1982, 14, 831-834.	0.7	2
353	Plasma fluctuations and confinement of fusion reaction products. Annals of Physics, 1981, 134, 376-410.	1.0	7
354	Low-frequency modes with high toroidal mode numbers: A general formulation. Physics of Fluids, 1981, 24, 478.	1.4	48
355	Dielectric tensor and magnetic permeability in the weak field approximation of general relativity. Journal of Physics A, 1980, 13, 2411-2421.	1.6	8
356	Analytical representation and physics of ballooning modes. Annals of Physics, 1979, 121, 1-31.	1.0	27
357	Magnetic equation for a rotating neutron star. Annals of Physics, 1979, 119, 97-116.	1.0	3
358	Birefringence induced by gravitational waves: A suggestion for a new detector. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 73, 140-142.	0.9	11
359	Electromagnetic detector for gravitational waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 68, 165-168.	0.9	48
360	On the operation of a tunable electromagnetic detector for gravitational waves. Journal of Physics A, 1978, 11, 1949-1962.	1.6	48

#	Article	IF	Citations
361	Theory of the ubiquitous mode. Nuclear Fusion, 1977, 17, 969-993.	1.6	154
362	Saturation of lower hybrid modes in the slide-away regime. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1976, 15, 88-90.	0.4	1
363	Anomalous transport model in high density regimes of confined plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1976, 59, 118-120.	0.9	7
364	Slide-away distributions and relevant collective modes in high-temperature plasmas. Nuclear Fusion, 1976, 16, 309-328.	1.6	75
365	Three applications toSO(4) invariant systems of a theorem of L. Michel relating extremal points to invariance properties. Communications in Mathematical Physics, 1975, 42, 41-63.	1.0	4
366	Quasi-resistive regimes in magnetically confined plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1975, 55, 221-224.	0.9	5
367	The dilation group and dimensionless quantities in classical and relativistic hydrodynamics. Meccanica, 1973, 8, 216-222.	1.2	0
368	Effect of weak interactions on the breaking of hadronic internal symmetry. Nuclear Physics B, 1972, 44, 221-235.	0.9	9
369	Efficient bright Î³-ray vortex emission from a laser-illuminated light-fan-in-channel target. High Power Laser Science and Engineering, 0, , 1-24.	2.0	11