

Ioannis Kourakis

List of Publications by Year in descending order

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193
docs citations

193
times ranked

1757
citing authors

#	ARTICLE	IF	CITATIONS
1	Comment on "Mathematical and physical aspects of Kappa velocity distribution"[Phys. Plasmas 14, 110702 (2007)]. Physics of Plasmas, 2009, 16, .	1.9	329
2	Dust ion acoustic solitons in a plasma with kappa-distributed electrons. Physics of Plasmas, 2010, 17, .	1.9	210
3	Arbitrary amplitude ion-acoustic solitary excitations in the presence of excess superthermal electrons. Physics of Plasmas, 2009, 16, .	1.9	176
4	Oblique electrostatic excitations in a magnetized plasma in the presence of excess superthermal electrons. Physics of Plasmas, 2010, 17, 032310.	1.9	167
5	Instability and Evolution of Nonlinearly Interacting Water Waves. Physical Review Letters, 2006, 97, 094501.	7.8	144
6	Exact theory for localized envelope modulated electrostatic wavepackets in space and dusty plasmas. Nonlinear Processes in Geophysics, 2005, 12, 407-423.	1.3	121
7	Dust-acoustic wave modulation in the presence of superthermal ions. Physics of Plasmas, 2008, 15, .	1.9	118
8	Electrostatic solitary waves in the presence of excess superthermal electrons: modulational instability and envelope soliton modes. Plasma Physics and Controlled Fusion, 2011, 53, 045003.	2.1	113
9	Nonlinear propagation of electromagnetic waves in negative-refraction-index composite materials. Physical Review E, 2005, 72, 016626.	2.1	103
10	Modulated electrostatic modes in pair plasmas: Modulational stability profile and envelope excitations. Physics of Plasmas, 2006, 13, 052117.	1.9	100
11	Dynamical characteristics of solitary waves, shocks and envelope modes in kappa-distributed non-thermal plasmas: an overview. Plasma Physics and Controlled Fusion, 2012, 54, 124001.	2.1	100
12	A new theory for perpendicular transport of cosmic rays. Astronomy and Astrophysics, 2007, 470, 405-409.	5.1	98
13	Electron-acoustic solitary waves in the presence of a suprathermal electron component. Physics of Plasmas, 2011, 18, .	1.9	89
14	Dust-ion-acoustic supersolitons in dusty plasmas with nonthermal electrons. Physical Review E, 2013, 87, 043107.	2.1	85
15	Nonlinear perpendicular propagation of ordinary mode electromagnetic wave packets in pair plasmas and electron-positron-ion plasmas. Physics of Plasmas, 2007, 14, 022306.	1.9	83
16	Electron-acoustic plasma waves: Oblique modulation and envelope solitons. Physical Review E, 2004, 69, 036411.	2.1	80
17	Electrostatic shock dynamics in superthermal plasmas. Physics of Plasmas, 2012, 19, .	1.9	79
18	Modulational instability and localized excitations of dust-ion acoustic waves. Physics of Plasmas, 2003, 10, 3459-3470.	1.9	72

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19	Higher-order effects and ultrashort solitons in left-handed metamaterials. <i>Physical Review E</i> , 2009, 79, 037601.	2.1	70
20	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
21	Nonlinear Dynamics of Rotating Multi-Component Pair Plasmas and e-p-i Plasmas. <i>Plasma and Fusion Research</i> , 2009, 4, 018-018.	0.7	68
22	Electrostatic mode envelope excitations in $e\text{-}p\text{-}i$ plasmas application in warm pair ion plasmas with a small fraction of stationary ions. <i>Journal of Physics A</i> , 2006, 39, 13817-13830.	1.6	67
23	Nonlinear excitations in electron-positron-ion plasmas in accretion disks of active galactic nuclei. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	67
24	Electrostatic supersolitons in three-species plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	67
25	Ion-acoustic supersolitons in plasmas with two-temperature electrons: Boltzmann and kappa distributions. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	66
26	Ion-acoustic waves in a two-electron-temperature plasma: oblique modulation and envelope excitations. <i>Journal of Physics A</i> , 2003, 36, 11901-11913.	1.6	64
27	Analytical description of stochastic field-line wandering in magnetic turbulence. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	63
28	Re-examining the Cairns-Tsallis model for ion acoustic solitons. <i>Physical Review E</i> , 2013, 88, 023103.	2.1	60
29	Electromagnetic rogue waves in beam-plasma interactions. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 064003.	2.2	57
30	Acoustic solitary waves in dusty and/or multi-ion plasmas with cold, adiabatic, and hot constituents. <i>Physics of Plasmas</i> , 2008, 15, 112309.	1.9	56
31	A Schamel equation for ion acoustic waves in superthermal plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	55
32	Oblique propagation of arbitrary amplitude electron acoustic solitary waves in magnetized kappa-distributed plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 105016.	2.1	54
33	Time-Resolved Characterization of the Formation of a Collisionless Shock. <i>Physical Review Letters</i> , 2013, 110, 205001.	7.8	54
34	Fully nonlinear ion-sound waves in a dense Fermi magnetoplasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 366, 606-610.	2.1	53
35	Modulational instability of dust acoustic waves in dusty plasmas: Modulation obliqueness, background ion nonthermality, and dust charging effects. <i>Physics of Plasmas</i> , 2006, 13, 062302.	1.9	50
36	Electron beam-plasma interaction and ion-acoustic solitary waves in plasmas with a superthermal electron component. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 075009.	2.1	48

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37	Envelope solitons associated with electromagnetic waves in a magnetized pair plasma. <i>Physics of Plasmas</i> , 2005, 12, 012319.	1.9	47
38	Random walk of magnetic field-lines for different values of the energy range spectral index. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	47
39	Self-focusing and envelope pulse generation in nonlinear magnetic metamaterials. <i>Physical Review E</i> , 2007, 75, 067601.	2.1	44
40	Spatial evolution of a q -Gaussian laser beam in relativistic plasma. <i>Laser and Particle Beams</i> , 2010, 28, 479-489.	1.0	44
41	Relativistic laser pulse compression in plasmas with a linear axial density gradient. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 065002.	2.1	44
42	Freak waves and electrostatic wavepacket modulation in a quantum electron-positron-ion plasma. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 035007.	2.1	44
43	Observation and characterization of laser-driven phase space electron holes. <i>Physics of Plasmas</i> , 2010, 17, 010701.	1.9	43
44	Electron-scale electrostatic solitary waves and shocks: the role of superthermal electrons. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	43
45	Dust-acoustic supersolitons in a three-species dusty plasma with kappa distributions. <i>Journal of Plasma Physics</i> , 2013, 79, 1039-1043.	2.1	43
46	Note on the single-shock solutions of the Korteweg-de Vries-Burgers equation. <i>Astrophysics and Space Science</i> , 2012, 338, 245-249.	1.4	42
47	Pressure anisotropy effects on nonlinear electrostatic excitations in magnetized electron-positron-ion plasmas. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	41
48	Electrostatic Solitary Waves in Relativistic Degenerate Electron-Positron-Ion Plasma. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 974-984.	1.3	40
49	Oblique modulation of electrostatic modes and envelope excitations in pair-ion and electron-positron plasmas. <i>Physics of Plasmas</i> , 2006, 13, 122310.	1.9	39
50	Electromagnetic envelope solitons in magnetized plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3667-3677.	2.1	39
51	Ion-acoustic envelope modes in a degenerate relativistic electron-ion plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	39
52	Modulated dust-acoustic wave packets in a plasma with non-isothermal electrons and ions. <i>Journal of Plasma Physics</i> , 2005, 71, 185-201.	2.1	38
53	Solitary and blow-up electrostatic excitations in rotating magnetized electron-positron-ion plasmas. <i>New Journal of Physics</i> , 2009, 11, 033028.	2.9	38
54	Amplitude modulation of quantum-ion-acoustic wavepackets in electron-positron-ion plasmas: Modulational instability, envelope modes, extreme waves. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	38

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55	Oblique Amplitude Modulation of Dust-Acoustic Plasma Waves. <i>Physica Scripta</i> , 2004, 69, 316-327.	2.5	35
56	Ion-acoustic waves in a plasma consisting of adiabatic warm ions, nonisothermal electrons, and a weakly relativistic electron beam: Linear and higher-order nonlinear effects. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	35
57	Shock creation and particle acceleration driven by plasma expansion into a rarefied medium. <i>Physics of Plasmas</i> , 2010, 17, 082305.	1.9	35
58	Generation of a Purely Electrostatic Collisionless Shock during the Expansion of a Dense Plasma through a Rarefied Medium. <i>Physical Review Letters</i> , 2011, 107, 025003.	7.8	35
59	Nonlinear dust-acoustic solitary waves in strongly coupled dusty plasmas. <i>Physical Review E</i> , 2012, 86, 066404.	2.1	34
60	Nonlinear theory of solitary waves associated with longitudinal particle motion in lattices. <i>European Physical Journal D</i> , 2004, 29, 247-263.	1.3	33
61	Lagrangian description of nonlinear dust-ion acoustic waves in dusty plasmas. <i>European Physical Journal D</i> , 2004, 30, 97-103.	1.3	32
62	Modulational instability criteria for two-component Bose-Einstein condensates. <i>European Physical Journal B</i> , 2005, 46, 381-384.	1.5	31
63	Large acoustic solitons and double layers in plasmas with two positive ion species. <i>Physics of Plasmas</i> , 2011, 18, 042309.	1.9	30
64	Dynamics of dark hollow Gaussian laser pulses in relativistic plasma. <i>Physical Review E</i> , 2013, 87, 063111.	2.1	29
65	Electron-scale dissipative electrostatic solitons in multi-species plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	29
66	Low frequency localized wavepackets in dusty plasmas with opposite charge polarity dust components. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 074003.	2.1	28
67	Electromagnetic beam profile dynamics in collisional plasmas. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 465501.	2.1	28
68	Spatiotemporal evolution of high-power relativistic laser pulses in electron-positron-ion plasmas. <i>Physical Review E</i> , 2010, 82, 016402.	2.1	28
69	Finite ion temperature effects on oblique modulational stability and envelope excitations of dust-ion acoustic waves. <i>European Physical Journal D</i> , 2004, 28, 109-117.	1.3	27
70	A Van der Pol-Mathieu equation for the dynamics of dust grain charge in dusty plasmas. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, F473-F481.	2.1	27
71	Finite amplitude envelope solitons in a pair-ion plasma. <i>Physics of Plasmas</i> , 2007, 14, 032107.	1.9	27
72	Modulated wavepackets associated with longitudinal dust grain oscillations in a dusty plasma crystal. <i>Physics of Plasmas</i> , 2004, 11, 1384-1393.	1.9	26

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73	Nonlinear dynamics of multidimensional electrostatic excitations in nonthermal plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 055005.	2.1	26
74	Overview of laser-driven generation of electron-positron beams. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	26
75	Weakly nonlinear ion-acoustic excitations in a relativistic model for dense quantum plasma. <i>Physical Review E</i> , 2016, 93, 023206.	2.1	26
76	Progress in proton radiography for diagnosis of ICF-relevant plasmas. <i>Laser and Particle Beams</i> , 2010, 28, 277-284.	1.0	25
77	Two-dimensional particle-in-cell simulation of the expansion of a plasma into a rarefied medium. <i>New Journal of Physics</i> , 2011, 13, 073023.	2.9	25
78	Nonlinear electrostatic excitations of charged dust in degenerate ultra-dense quantum dusty plasmas. <i>Physics of Plasmas</i> , 2012, 19, 062107.	1.9	24
79	Nonlinear modulated dust lattice wave packets in two-dimensional hexagonal dust crystals. <i>Physics of Plasmas</i> , 2006, 13, 122304.	1.9	23
80	Parametric study of nonlinear electrostatic waves in two-dimensional quantum dusty plasmas. <i>New Journal of Physics</i> , 2008, 10, 023007.	2.9	23
81	Propagation regimes for an electromagnetic beam in magnetized plasma. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	22
82	Relativistic theory for localized electrostatic excitations in degenerate electron-ion plasmas. <i>Physical Review E</i> , 2014, 90, 033112.	2.1	22
83	Dust lattice wave dispersion relations in two-dimensional hexagonal crystals including the effect of dust charge polarization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 355, 122-128.	2.1	21
84	On the existence and stability of electrostatic structures in non-Maxwellian electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2013, 20, 122311.	1.9	21
85	Nonlinear hydrodynamic Langmuir waves in fully degenerate relativistic plasma. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 044006.	2.1	21
86	Discrete breather modes associated with vertical dust grain oscillations in dusty plasma crystals. <i>Physics of Plasmas</i> , 2005, 12, 014502.	1.9	20
87	Simulation of a collisionless planar electrostatic shock in a proton-electron plasma with a strong initial thermal pressure change. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 025001.	2.1	20
88	Nonlinear modulation of transverse dust lattice waves in complex plasma crystals. <i>Physics of Plasmas</i> , 2004, 11, 2322-2325.	1.9	19
89	Stability of dust lattice modes in the presence of charged dust grain polarization in plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 351, 101-104.	2.1	19
90	Fully kinetic simulation of ion acoustic and dust-ion acoustic waves. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	19

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91	Semiclassical relativistic fluid theory for electrostatic envelope modes in dense electron-positron-ion plasmas: Modulational instability and rogue waves. <i>Journal of Plasma Physics</i> , 2013, 79, 1089-1094.	2.1	19
92	Parametric study of non-relativistic electrostatic shocks and the structure of their transition layer. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	19
93	Instability and dynamics of two nonlinearly coupled laser beams in a plasma. <i>Physics of Plasmas</i> , 2006, 13, 053104.	1.9	18
94	Discrete solitons and vortices in hexagonal and honeycomb lattices: Existence, stability, and dynamics. <i>Physical Review E</i> , 2008, 78, 066610.	2.1	18
95	Observation of plasma density dependence of electromagnetic soliton excitation by an intense laser pulse. <i>Physics of Plasmas</i> , 2011, 18, 080704.	1.9	18
96	Dust-acoustic shocks in strongly coupled dusty plasmas. <i>Physical Review E</i> , 2014, 89, 043103.	2.1	18
97	Study of the intergrain interaction potential and associated instability of dust-lattice plasma oscillations in the presence of ion flow. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 317, 156-164.	2.1	17
98	Interaction of spatially overlapping standing electromagnetic solitons in plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 473-477.	2.1	17
99	Relativistic breather-type solitary waves with linear polarization in cold plasmas. <i>Physical Review E</i> , 2015, 91, 033102.	2.1	17
100	Multispecies plasma expansion into vacuum: The role of secondary ions and suprathermal electrons. <i>Physical Review E</i> , 2016, 94, 053202.	2.1	17
101	On the effects of suprathermal populations in dusty plasmas: The case of dust-ion-acoustic waves. <i>Planetary and Space Science</i> , 2018, 156, 130-138.	1.7	17
102	One-dimensional particle simulation of the filamentation instability: Electrostatic field driven by the magnetic pressure gradient force. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	16
103	Dissipative high-frequency envelope soliton modes in nonthermal plasmas. <i>Physical Review E</i> , 2018, 98, .	2.1	16
104	Modulational instability and localized excitations involving two nonlinearly coupled upper-hybrid waves in plasmas. <i>New Journal of Physics</i> , 2005, 7, 153-153.	2.9	15
105	On the characteristics of obliquely propagating electrostatic structures in non-Maxwellian plasmas in the presence of ion pressure anisotropy. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	15
106	Modulated Wave Packets and Envelope Solitary Structures in Complex Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 573-581.	1.3	13
107	Weakly nonlinear vertical dust grain oscillations in dusty plasma crystals in the presence of a magnetic field. <i>Physics of Plasmas</i> , 2004, 11, 3665-3671.	1.9	13
108	Modulated whistler wave packets associated with density perturbations. <i>Physics of Plasmas</i> , 2005, 12, 012902.	1.9	13

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109	Low-frequency electromagnetic waves in a Hall-magnetohydrodynamic plasma with charged dust macroparticles. <i>Physics of Plasmas</i> , 2005, 12, 024501.	1.9	13
110	NONLINEAR EXCITATIONS IN STRONGLY-COUPLED PLASMA LATTICES: ENVELOPE SOLITONS, KINKS AND INTRINSIC LOCALIZED MODES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006, 16, 1711-1725.	1.7	13
111	Magnetization of left-handed metamaterials. <i>Physica Scripta</i> , 2006, 74, 422-424.	2.5	13
112	Ion-beam/plasma modes in ultradense relativistic quantum plasmas: Dispersion characteristics and beam-driven instability. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	13
113	Kinetic Alfvén solitary waves in a plasma with two-temperature superthermal electron populations: the case of Saturn's magnetosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5504-5518.	4.4	13
114	Electromagnetic pulse compression and energy localization in quantum plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4336-4342.	2.1	12
115	Nonlinear modulation of ion-acoustic waves in two-electron-temperature plasmas. <i>Journal of Plasma Physics</i> , 2010, 76, 169-181.	2.1	12
116	New insight into the dispersion characteristics of electrostatic waves in ultradense plasmas: electron degeneracy and relativistic effects. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 105013.	2.1	12
117	Nonlinear Lagrangian theory of envelope electrostatic plasma waves in a two-electron-temperature plasma. <i>Physics of Plasmas</i> , 2004, 11, 4506-4514.	1.9	11
118	Modulational instability in asymmetric coupled wave functions. <i>European Physical Journal B</i> , 2006, 50, 321-325.	1.5	11
119	Existence of multisite intrinsic localized modes in one-dimensional Debye crystals. <i>Physical Review E</i> , 2007, 76, 016402.	2.1	11
120	Evolution of linearly polarized electromagnetic pulses in laser plasmas. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	11
121	Modulated transverse off-plane dust-lattice wave packets in hexagonal two-dimensional dusty plasma crystals. <i>Physics of Plasmas</i> , 2009, 16, 053706.	1.9	11
122	Particle simulation study of electron heating by counter-streaming ion beams ahead of supernova remnant shocks. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 085015.	2.1	11
123	Ion-beam-plasma interaction effects on electrostatic solitary wave propagation in ultradense relativistic quantum plasmas. <i>Physical Review E</i> , 2017, 96, 043206.	2.1	11
124	Nonlinear propagation of modulated ion-acoustic plasma waves in the presence of an electron beam. <i>Physics of Plasmas</i> , 2006, 13, 042305.	1.9	10
125	Modeling relativistic soliton interactions in overdense plasmas: A perturbed nonlinear Schrödinger equation framework. <i>Physical Review E</i> , 2014, 90, 063104.	2.1	10
126	Electrostatic wave breaking limit in a cold electronegative plasma with non-Maxwellian electrons. <i>Scientific Reports</i> , 2021, 11, 6174.	3.3	10

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127	Fokker-Planck equation for a test particle weakly coupled to a magnetized plasma. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, 587-594.	2.1	9
128	Nonlinear compressional electromagnetic ion-cyclotron wavepackets in space plasmas. <i>Nonlinear Processes in Geophysics</i> , 2005, 12, 441-450.	1.3	9
129	Discrete breathers in hexagonal dusty plasma lattices. <i>Physical Review E</i> , 2009, 80, 026402.	2.1	9
130	Generalized compound transport of charged particles in turbulent magnetized plasmas. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 11191-11201.	2.1	8
131	Existence and stability of multisite breathers in honeycomb and hexagonal lattices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 235101.	2.1	8
132	Dynamics of nonlinearly coupled magnetic-field-aligned electromagnetic electron-cyclotron waves near the zero-group-dispersion point in magnetized plasmas. <i>Physics of Plasmas</i> , 2005, 12, 082303.	1.9	7
133	Coexistence of negative and positive polarity electrostatic solitary waves in ultradense relativistic negative-ion-beam permeated plasmas. <i>Physics of Plasmas</i> , 2018, 25, 052124.	1.9	7
134	Linear and nonlinear properties of Rao-dust-Alfvén waves in magnetized plasmas. <i>Physics of Plasmas</i> , 2004, 11, 958-969.	1.9	6
135	Laser pulse compression and amplification via Raman backscattering in plasma. <i>Laser and Particle Beams</i> , 2009, 27, 579-585.	1.0	6
136	Electrostatic waves in superthermal dusty plasmas: review of recent advancement. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	6
137	PIC simulation of a thermal anisotropy-driven Weibel instability in a circular rarefaction wave. <i>New Journal of Physics</i> , 2012, 14, 023007.	2.9	6
138	Superluminal electromagnetic solitary waves in electron-positron plasmas. <i>Europhysics Letters</i> , 2012, 100, 15002.	2.0	6
139	Multicomponent kinetic simulation of Bernstein-Greene-Kruskal modes associated with ion acoustic and dust-ion acoustic excitations in electron-ion and dusty plasmas. <i>Physics of Plasmas</i> , 2014, 21, 043701.	1.9	6
140	Electrostatic shock structures in dissipative multi-ion dusty plasmas. <i>Physics of Plasmas</i> , 2018, 25, 062104.	1.9	6
141	Ultrafast electron holes in plasma phase space dynamics. <i>Scientific Reports</i> , 2021, 11, 16358.	3.3	6
142	Electron beam-plasma interaction in a dusty plasma with excess suprathermal electrons. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	5
143	Vlasov-kinetic computer simulations of electrostatic waves in dusty plasmas: an overview of recent results. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	5
144	Plasma diffusion and relaxation in a magnetic field. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2003, 8, 547-551.	3.3	4

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145	Linear and nonlinear dynamics of a dust bicrystal consisting of positive and negative dust particles. <i>Physics of Plasmas</i> , 2005, 12, 112104.	1.9	4
146	Nonlinearly coupled whistlers and dust-acoustic perturbations in dusty plasmas. <i>Physics of Plasmas</i> , 2005, 12, 124502.	1.9	4
147	NON-GAUSSIAN STATISTICS OF OIL PRICING TIME-SERIES: A CASE STUDY. <i>Fractals</i> , 2010, 18, 101-110.	3.7	4
148	Localized structures in complex plasmas in the presence of a magnetic field. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	4
149	Parametric instabilities and localization of nonlinearly coupled electromagnetic modes in astrophysical dusty plasmas. <i>Journal of Plasma Physics</i> , 2006, 72, 397.	2.1	3
150	Nonlinear excitations in Debye bi-crystals. <i>Physics of Plasmas</i> , 2007, 14, 103709.	1.9	3
151	Modulated Dust-Acoustic Wavepackets in a Kappa-Distributed Nonthermal Plasma Background. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	3
152	Detailed analytical investigation of magnetic field line random walk in turbulent plasmas: II. Isotropic turbulence. <i>Journal of Plasma Physics</i> , 2009, 75, 183-192.	2.1	3
153	Low-frequency electrostatic defect mode in doped pair-ion plasmas. <i>Journal of Plasma Physics</i> , 2010, 76, 607-616.	2.1	3
154	Weakly Nonlinear Effects Associated with Transverse Oscillations in Dusty Plasma Crystals. <i>Physica Scripta</i> , 2004, T107, 243.	2.5	3
155	Comment on "Dynamics in a Multicomponent Plasma near the Low-Frequency Cutoff" <i>Physical Review Letters</i> , 2005, 94, 119501; discussion 119502.	7.8	2
156	The 90° problem of scattering theory revisited: dynamical turbulence versus nonlinear effects. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 2595-2610.	3.6	2
157	On the existence of rarefactive longitudinal solitons in dusty plasma lattices. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
158	Large-amplitude electron-acoustic solitons in a dusty plasma with kappa-distributed electrons. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	2
159	Two-dimensional electrostatic solitary waves in magnetized ultradense relativistic quantum electronegative plasmas. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	2
160	Nonlinear Modulated Envelope Electrostatic Wavepacket Propagation in Space and Laboratory Plasmas. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	1
161	Statistical-mechanical description of classical test-particle dynamics in the presence of an external force field: modelling noise and damping from first principles. <i>European Physical Journal B</i> , 2006, 50, 345-349.	1.5	1
162	Detailed analytical investigation of magnetic field line random walk in turbulent plasmas: I. Two-component slab/two-dimensional turbulence. <i>Journal of Plasma Physics</i> , 2008, 74, 657-677.	2.1	1

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163	Electron-acoustic solitons in an electron-beam plasma system with kappa-distributed electrons. , 2014, , .		1
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