

Josã© T Mendonça

List of Publications by Year in descending order

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283
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283
times ranked

2208
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma based charged-particle accelerators. Plasma Physics and Controlled Fusion, 2004, 46, R1-R23.	2.1	213
2	Using High-Power Lasers for Detection of Elastic Photon-Photon Scattering. Physical Review Letters, 2006, 96, 083602.	7.8	155
3	Amplification and generation of ultra-intense twisted laser pulses via stimulated Raman scattering. Nature Communications, 2016, 7, 10371.	12.8	153
4	Stimulated Raman and Brillouin Backscattering of Collimated Beams Carrying Orbital Angular Momentum. Physical Review Letters, 2009, 102, 185005.	7.8	142
5	Neutrino Driven Streaming Instabilities in a Dense Plasma. Physical Review Letters, 1999, 83, 2703-2706.	7.8	95
6	Inverse Faraday Effect with Linearly Polarized Laser Pulses. Physical Review Letters, 2010, 105, 035001.	7.8	94
7	Experimental Evidence of Photon Acceleration of Ultrashort Laser Pulses in Relativistic Ionization Fronts. Physical Review Letters, 1997, 78, 4773-4776.	7.8	93
8	Evidence of photon acceleration by laser wake fields. Physics of Plasmas, 2006, 13, 033108.	1.9	88
9	Time Refraction and Time Reflection: Two Basic Concepts. Physica Scripta, 2002, 65, 160-163.	2.5	84
10	Photon Landau Damping. Physical Review Letters, 1997, 78, 247-249.	7.8	74
11	Cascaded highly nondegenerate four-wave-mixing phenomenon in transparent isotropic condensed media. Optics Letters, 2000, 25, 829.	3.3	72
12	Wave kinetics of relativistic quantum plasmas. Physics of Plasmas, 2011, 18, .	1.9	71
13	Optical Control of the Topology of Laser-Plasma Accelerators. Physical Review Letters, 2018, 121, 054801.	7.8	68
14	High Orbital Angular Momentum Harmonic Generation. Physical Review Letters, 2016, 117, 265001.	7.8	66
15	Plasmons with orbital angular momentum. Physics of Plasmas, 2009, 16, 112103.	1.9	64
16	Quantum wave kinetics of high-gain free-electron lasers. Physics of Plasmas, 2008, 15, .	1.9	58
17	Threshold for electron heating by two electromagnetic waves. Physical Review A, 1983, 28, 3592-3598.	2.5	55
18	Donut wakefields generated by intense laser pulses with orbital angular momentum. Physics of Plasmas, 2014, 21, .	1.9	54

#	ARTICLE	IF	CITATIONS
19	Quantum gravitational decoherence of matter waves. <i>Classical and Quantum Gravity</i> , 2006, 23, L59-L65.	4.0	51
20	Collective oscillations in ultracold atomic gas. <i>Physical Review A</i> , 2008, 78, .	2.5	51
21	Kinetic description of electron plasma waves with orbital angular momentum. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	51
22	Regular and stochastic acceleration of photons. <i>Physical Review E</i> , 1994, 49, 3520-3523.	2.1	50
23	Interaction of ultrashort high-intensity laser pulses with atomic clusters. <i>Physics of Plasmas</i> , 2001, 8, 1084-1086.	1.9	48
24	Quantum plasma fluid model for high-gain free-electron lasers. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124024.	2.1	48
25	Cascaded nondegenerate four-wave-mixing technique for high-power single-cycle pulse synthesis in the visible and ultraviolet ranges. <i>Physical Review A</i> , 2009, 79, .	2.5	47
26	Quantum theory of time refraction. <i>Physical Review A</i> , 2000, 62, .	2.5	46
27	Analysis of four-wave mixing of high-power lasers for the detection of elastic photon-photon scattering. <i>Physical Review A</i> , 2006, 74, .	2.5	46
28	Time refraction and the quantum properties of vacuum. <i>Physical Review A</i> , 2005, 72, .	2.5	41
29	Generation and Applications of Extreme-Ultraviolet Vortices. <i>Photonics</i> , 2017, 4, 28.	2.0	41
30	Temporal beam splitter and temporal interference. <i>Physical Review A</i> , 2003, 68, .	2.5	40
31	Photon Bubbles in Ultracold Matter. <i>Physical Review Letters</i> , 2012, 108, 033001.	7.8	40
32	Kinetic theory of photon acceleration: Time-dependent spectral evolution of ultrashort laser pulses. <i>Physical Review E</i> , 1998, 57, 3423-3431.	2.1	38
33	Proton and neutron sources using terawatt lasers. <i>Measurement Science and Technology</i> , 2001, 12, 1801-1812.	2.6	38
34	Beam Instabilities in Laser-Plasma Interaction: Relevance to Preferential Ion Heating. <i>Physical Review Letters</i> , 2005, 94, .	7.8	37
35	Spontaneous Generation of Self-Organized Solitary Wave Structures at Earth's Magnetopause. <i>Physical Review Letters</i> , 2007, 99, 205006.	7.8	35
36	Phonons with orbital angular momentum. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	33

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37	Quasiparticle Approach to the Modulational Instability of Drift Waves Coupling to Zonal Flows. <i>Physical Review Letters</i> , 2005, 94, 165002.	7.8	32
38	Volkov solutions for relativistic quantum plasmas. <i>Physical Review E</i> , 2011, 83, 026406.	2.1	32
39	Effects of Landau quantization on the equations of state in intense laser plasma interactions with strong magnetic fields. <i>Physics of Plasmas</i> , 2005, 12, 052115.	1.9	31
40	Field quantization in a plasma: Photon mass and charge. <i>Physical Review E</i> , 2000, 62, 2989-2991.	2.1	30
41	Photon orbital angular momentum and mass in a plasma vortex. <i>Europhysics Letters</i> , 2010, 90, 45001.	2.0	30
42	Cyclotron Maser Radiation from Astrophysical Shocks. <i>Astrophysical Journal</i> , 2003, 595, 279-284.	4.5	29
43	Vacuum effects in a vibrating cavity: Time refraction, dynamical Casimir effect, and effective Unruh acceleration. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5621-5624.	2.1	29
44	Kinetic theory of photons in a plasma. <i>Physics of Plasmas</i> , 1998, 5, 3609-3614.	1.9	28
45	The neutrino electron accelerator. <i>Physics of Plasmas</i> , 1998, 5, 1-3.	1.9	28
46	Photon Landau damping of electron plasma waves with photon recoil. <i>Physics of Plasmas</i> , 2006, 13, 102109.	1.9	28
47	Twisted waves in a plasma. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124031.	2.1	28
48	Kinetic study of ion-acoustic plasma vortices. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	28
49	Resonant quasiparticles in plasma turbulence. <i>Physical Review E</i> , 2003, 68, 016406.	2.1	27
50	Axion-Plasmon Polaritons in Strongly Magnetized Plasmas. <i>Physical Review Letters</i> , 2018, 120, 181803.	7.8	27
51	Stochasticity in plasmas with electromagnetic waves. <i>Journal of Plasma Physics</i> , 1982, 28, 485-493.	2.1	26
52	Collective neutrino-plasma interactions. <i>Physics of Plasmas</i> , 2000, 7, 2166-2172.	1.9	26
53	Analog of the Wigner-Moyal equation for the electromagnetic field. <i>Physical Review E</i> , 2000, 62, 4276-4282.	2.1	26
54	Plasmon beam instability and plasmon Landau damping of ion acoustic waves. <i>Physics of Plasmas</i> , 2002, 9, 2604-2608.	1.9	26

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55	Excitation of high orbital angular momentum Rydberg states with Laguerre-Gauss beams. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074007.	1.5	26
56	Photon acceleration versus frequency-domain interferometry for laser wakefield diagnostics. Physical Review Special Topics: Accelerators and Beams, 1998, 1, .	1.8	25
57	Photon kinetic theory of self-phase modulation. Optics Communications, 2001, 196, 285-291.	2.1	25
58	Laser pulse frequency up-shifts by relativistic ionization fronts. Europhysics Letters, 2004, 66, 371-377.	2.0	25
59	Axion excitation by intense laser fields. Europhysics Letters, 2007, 79, 21001.	2.0	24
60	Exit times and chaotic transport in Hamiltonian systems. Physical Review Letters, 1994, 72, 2859-2862.	7.8	23
61	Neutrinos generating inhomogeneities and magnetic fields in the early universe. Physics of Plasmas, 1998, 5, 2815-2817.	1.9	23
62	Photon acceleration in vacuum. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 700-704.	2.1	23
63	Neutrino orbital angular momentum in a plasma vortex. Europhysics Letters, 2008, 84, 41001.	2.0	23
64	Nonlinear interaction of wave packets. Journal of Plasma Physics, 1979, 22, 15-26.	2.1	22
65	Mode coupling theory of flash ionization in a cavity. IEEE Transactions on Plasma Science, 1996, 24, 147-151.	1.3	22
66	Photon acceleration in superluminescent and accelerated ionization fronts. IEEE Transactions on Plasma Science, 1996, 24, 316-322.	1.3	21
67	Stochastic dissociation of a laser-driven Morse oscillator. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, L577-L582.	1.6	20
68	A phonon laser in ultra-cold matter. Europhysics Letters, 2010, 91, 33001.	2.0	20
69	Chargeons and phonons in a dusty plasma. Europhysics Letters, 2001, 54, 741-746.	2.0	19
70	Plasmons carrying orbital angular momentum in quantum plasmas. Journal of Plasma Physics, 2013, 79, 973-979.	2.1	19
71	The nonlinear three-wave interaction with a finite spectral width. Physics of Fluids, 1988, 31, 3286.	1.4	18
72	Collective oscillations of ultracold matter. Physical Review A, 2010, 81, .	2.5	18

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73	Twisted Landau damping rates in multi-component dusty plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	18
74	Diffusion of magnetic field lines in a toroidal geometry. <i>Physics of Fluids B</i> , 1991, 3, 87-94.	1.7	17
75	Observation of ion temperatures exceeding background electron temperatures in petawatt laser-solid experiments. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, L49-L56.	2.1	17
76	Quantum Trivelpiece–Gould waves in a magnetized dense plasma. <i>Physics of Plasmas</i> , 2008, 15, 072109.	1.9	17
77	Driven collective instabilities in magneto-optical traps: A fluid-dynamical approach. <i>Europhysics Letters</i> , 2010, 89, 53001.	2.0	17
78	Nonlocal plasmon excitation in metallic nanostructures. <i>Physical Review B</i> , 2011, 83, .	3.2	17
79	Twisted electrostatic waves in a self-gravitating dusty plasma. <i>Contributions To Plasma Physics</i> , 2017, 57, 404-413.	1.1	17
80	Reflection of an electron beam by a photon mirror. <i>Journal of Plasma Physics</i> , 2007, 73, 627-634.	2.1	16
81	Propagation of relativistically intense laser pulses in nonuniform plasmas. <i>Physical Review E</i> , 1998, 58, 4890-4896.	2.1	15
82	Higher Harmonics In Vacuum From Nonlinear QED Effects without Low-Mass Intermediate Particles. <i>Physical Review Letters</i> , 2006, 97, 100403.	7.8	15
83	Dephasing of a non-relativistic quantum particle due to a conformally fluctuating spacetime. <i>Classical and Quantum Gravity</i> , 2009, 26, 145013.	4.0	15
84	GAUGE: the GrAnd Unification and Gravity Explorer. <i>Experimental Astronomy</i> , 2009, 23, 549-572.	3.7	15
85	Ion-acoustic waves in a nonstationary ultra-cold neutral plasma. <i>Physics of Plasmas</i> , 2011, 18, 042101.	1.9	15
86	Improved model of quasi-particle turbulence (with applications to Alfvén and drift wave turbulence). <i>Physics of Plasmas</i> , 2011, 18, 112306.	1.9	15
87	The transition from the classical to the quantum regime in nonlinear Landau damping. <i>Physica Scripta</i> , 2015, 90, 068020.	2.5	15
88	Wave-kinetic approach to the Schrödinger–Newton equation. <i>New Journal of Physics</i> , 2019, 21, 023004.	2.9	15
89	Photon acceleration of ultrashort laser pulses by relativistic ionization fronts. <i>Physical Review E</i> , 2002, 66, 056406.	2.1	14
90	Neutrino plasma coupling in dense astrophysical plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, B327-B334.	2.1	14

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91	Photon acceleration and modulational instability during wakefield excitation using long laser pulses. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 024008.	2.1	14
92	Polytropic equilibrium and normal modes in cold atomic traps. <i>Physical Review A</i> , 2013, 88, .	2.5	14
93	Quantum fluid model of coherent stimulated radiation by a dense relativistic cold electron beam. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	14
94	Dynamical Casimir effect in ultra-cold matter with a time-dependent effective charge. <i>Physica Scripta</i> , 2014, T160, 014008.	2.5	14
95	High harmonic generation in underdense plasmas by intense laser pulses with orbital angular momentum. <i>Physics of Plasmas</i> , 2015, 22, 123106.	1.9	14
96	Turbulence excitation in counterstreaming paraxial superfluids of light. <i>Physical Review A</i> , 2020, 101, .	2.5	14
97	Projection-operator method for the nonlinear three-wave interaction. <i>Physical Review A</i> , 1985, 31, 3898-3906.	2.5	13
98	Neutrino magnetohydrodynamics. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	13
99	Bose-Einstein condensation of photons in a plasma. <i>Physical Review A</i> , 2017, 95, .	2.5	13
100	Neutrino Kinetics in Dense Astrophysical Plasmas. <i>Astrophysical Journal, Supplement Series</i> , 2000, 127, 481-484.	7.7	12
101	Mie and Debye scattering in dusty plasmas. <i>Physical Review E</i> , 2000, 62, 1190-1201.	2.1	12
102	Basic physics of laser propagation in hollow waveguides. <i>Physical Review E</i> , 2000, 62, 7168-7180.	2.1	12
103	New mechanism of vacuum radiation from non-accelerated moving boundaries. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2005, 7, S69-S76.	1.4	12
104	Hamiltonian formulation of direct laser acceleration in vacuum. <i>Journal of Plasma Physics</i> , 2007, 73, 635-647.	2.1	12
105	Applications of the wave kinetic approach: From laser wakefields to drift wave turbulence. <i>Physics of Plasmas</i> , 2009, 16, 055904.	1.9	12
106	Photon and electron Landau damping in quantum plasmas. <i>Physica Scripta</i> , 2016, 91, 095601.	2.5	12
107	Waves in Rydberg plasmas. <i>Journal of Plasma Physics</i> , 2009, 75, 713-719.	2.1	11
108	Classical rotons in cold atomic traps. <i>Physical Review A</i> , 2012, 86, .	2.5	11

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109	Equation of state of a laser-cooled gas. <i>Physical Review A</i> , 2016, 93, .	2.5	11
110	Neutrino (antineutrino) effective charge in a magnetized electron-positron plasma. <i>Physics of Plasmas</i> , 2004, 11, 1352-1357.	1.9	10
111	Wave kinetic treatment of forward four-wave stimulated scattering instabilities. <i>Journal of Plasma Physics</i> , 2005, 71, 899.	2.1	10
112	Generalized superradiance for producing broadband coherent radiation with transversely modulated arbitrarily diluted bunches. <i>Nature Physics</i> , 2021, 17, 99-104.	16.7	10
113	Kinetic formulation of neutrino-plasma interactions. <i>Physics of Plasmas</i> , 1998, 5, 3512-3516.	1.9	9
114	Comment on "Ponderomotive force due to neutrinos". <i>Physical Review D</i> , 1999, 60, .	4.7	9
115	Gravitational wave instabilities in the presence of photon beams. <i>Journal of Physics A</i> , 2001, 34, 9677-9686.	1.6	9
116	Wave kinetics and photon acceleration. <i>Physica Scripta</i> , 2006, 74, C61-C69.	2.5	9
117	Wave kinetic description of quantum pair plasmas. <i>Journal of Plasma Physics</i> , 2008, 74, 91-97.	2.1	9
118	Twisted waves in a magnetized plasma. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 054003.	2.1	9
119	Quantum Landau damping in dipolar Bose-Einstein condensates. <i>Physical Review A</i> , 2018, 97, .	2.5	9
120	A new method for high-harmonic generation by cascaded four-wave mixing. <i>Optics Communications</i> , 2001, 188, 383-388.	2.1	8
121	Two-dimensional collision of probe photons with relativistic ionization fronts. <i>Physical Review E</i> , 2002, 65, 036404.	2.1	8
122	Collective plasma effects in scattering of radiation in astrophysical plasmas. <i>Physics of Plasmas</i> , 2003, 10, 3297-3308.	1.9	8
123	Excitation of ion-acoustic perturbations by incoherent kinetic Alfvén waves in plasmas. <i>Physics of Plasmas</i> , 2007, 14, 122304.	1.9	8
124	The influence of temporal coherence on the dynamical Casimir effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2665-2669.	2.1	8
125	Influence of flavor oscillations on neutrino beam instabilities. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	8
126	Time Crystals in Ultracold Matter. <i>Journal of Russian Laser Research</i> , 2014, 35, 93-100.	0.6	8

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127	Vlasov equation for photons and quasi-particles in a plasma. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	8
128	Coupling between ion-acoustic waves and neutrino oscillations. <i>Physical Review E</i> , 2017, 95, 013207.	2.1	8
129	Controlled beat-wave Brillouin scattering in the ionosphere. <i>Nature Communications</i> , 2021, 12, 6209.	12.8	8
130	Full wave theory of photon acceleration in a cavity. <i>IEEE Transactions on Plasma Science</i> , 1996, 24, 503-509.	1.3	7
131	Resonant interaction of photons with gravitational waves. <i>Physical Review D</i> , 2001, 65, .	4.7	7
132	Neutrino-driven wakefields in an electron-positron plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 305, 190-195.	2.1	7
133	Nonlinear self-interaction of plane gravitational waves. <i>Physical Review D</i> , 2003, 67, .	4.7	7
134	Excitation of strong wakefields by intense neutrino bursts in a magnetized electron-positron plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 99, 466-473.	0.9	7
135	A kinetic approach to Bose-Einstein condensates: Self-phase modulation and Bogoliubov oscillations. <i>Journal of Experimental and Theoretical Physics</i> , 2005, 101, 942-948.	0.9	7
136	Modulational instability of spatially broadband nonlinear optical pulses in four-state atomic systems. <i>Physical Review E</i> , 2006, 74, 067603.	2.1	7
137	Wave kinetic description of Bogoliubov oscillations in the Bose-Einstein condensate. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 2311-2314.	2.1	7
138	Time refraction in expanding plasma bubbles. <i>New Journal of Physics</i> , 2009, 11, 013029.	2.9	7
139	Production of bright entangled photons from moving optical boundaries. <i>Physical Review A</i> , 2011, 83, .	2.5	7
140	Inverse Faraday effect with plasmon beams. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 045007.	2.1	7
141	Nonlinear evolution of a single coherent mode in a turbulent plasma. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 055004.	2.1	7
142	Photon bubble turbulence in cold atom gases. <i>Nature Communications</i> , 2021, 12, 3240.	12.8	7
143	Enhanced microwave scattering at the upper hybrid frequency. <i>Physics of Fluids</i> , 1976, 19, 1561.	1.4	6
144	Brownian motion of a dust particle in a plasma. <i>Physics of Plasmas</i> , 1997, 4, 674-677.	1.9	6

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145	Neutrino Landau damping and collective neutrino plasma processes. Journal of Plasma Physics, 2000, 64, 97-108.	2.1	6
146	Neutrino Landau damping. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 270, 265-272.	2.1	6
147	Low-Frequency Electromagnetic Waves in a Magnetized Electron-Positron-Ion Plasma. Physica Scripta, 2004, , 133.	2.5	6
148	Parametric excitation of neutrino pairs by electron plasma waves. Journal of Plasma Physics, 2005, 71, 119-125.	2.1	6
149	A new diagnostic for very high magnetic fields in expanding plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 336, 390-395.	2.1	6
150	Wakefield of Bose-Einstein condensates in a background thermal gas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 340, 355-360.	2.1	6
151	Gamma ray sources using imperfect relativistic mirrors. Physics of Plasmas, 2008, 15, .	1.9	6
152	Laser wakefield acceleration in the Petawatt regime. Plasma Physics and Controlled Fusion, 2009, 51, 024007.	2.1	6
153	Nonlinear instability saturation due to quasi-particle trapping in a turbulent plasma. Physics of Plasmas, 2012, 19, 082316.	1.9	6
154	Neutrino oscillations in a turbulent plasma. Physics of Plasmas, 2013, 20, .	1.9	6
155	Inverse bremsstrahlung in relativistic quantum plasmas. Physical Review E, 2013, 87, 063112.	2.1	6
156	Emission of twisted photons from quantum vacuum. Europhysics Letters, 2017, 120, 61001.	2.0	6
157	Twisted waves and instabilities in a permeating dusty plasma. Journal of Plasma Physics, 2018, 84, .	2.1	6
158	Light spring amplification in a multi-frequency Raman amplifier. Physics of Plasmas, 2018, 25, 123111.	1.9	6
159	Multimode collective scattering of light in free space by a cold atomic gas. Physical Review A, 2019, 100, .	2.5	6
160	Gravitational optics: Self-phase modulation and harmonic cascades. Physical Review D, 2002, 66, .	4.7	5
161	Physical problems of artificial magnetospheric propulsion. Journal of Plasma Physics, 2005, 71, 495-501.	2.1	5
162	Mass for plasma photons from gauge symmetry breaking. Europhysics Letters, 2006, 75, 189-194.	2.0	5

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163	Laser Propulsion for Ground Launch. <i>Journal of Propulsion and Power</i> , 2007, 23, 73-80.	2.2	5
164	Two-stream instability in quasi-one-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2009, 79, .	2.5	5
165	Magnetization of Rydberg plasmas by electromagnetic waves. <i>Journal of Plasma Physics</i> , 2010, 76, 19-23.	2.1	5
166	Collective processes in a large atomic laser cooling experiment. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	5
167	Neutrino-driven electrostatic instabilities in a magnetized plasma. <i>Physical Review D</i> , 2017, 96, .	4.7	5
168	Plasmon excitations with a semi-integer angular momentum. <i>Scientific Reports</i> , 2018, 8, 7817.	3.3	5
169	Dust oscillons with finite OAM and dust self-gravity effects. <i>Physica Scripta</i> , 2019, 94, 055602.	2.5	5
170	Thermal effects in drift-tearing modes. <i>Plasma Physics and Controlled Fusion</i> , 1991, 33, 847-857.	2.1	4
171	Asymmetric pendulum. <i>Physical Review A</i> , 1992, 46, 6700-6706.	2.5	4
172	Scattering of electromagnetic waves by drift turbulent vortices in a plasma. <i>Plasma Physics and Controlled Fusion</i> , 1994, 36, 1245-1254.	2.1	4
173	Full wave theory of Fermi photon acceleration. <i>Physica Scripta</i> , 1996, T63, 288-290.	2.5	4
174	Casimir effect in a turbulent plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 289, 233-239.	2.1	4
175	Thomas-Fermi model for a dust particle in a plasma. <i>Europhysics Letters</i> , 2002, 57, 362-367.	2.0	4
176	Statistical properties of the continuum Salerno model. <i>Physical Review A</i> , 2006, 74, .	2.5	4
177	Nonlinear excitation of zonal flows by Rossby wave turbulence. <i>New Journal of Physics</i> , 2009, 11, 073038.	2.9	4
178	Rossby waves in rapidly rotating Bose-Einstein condensates. <i>New Journal of Physics</i> , 2010, 12, 093001.	2.9	4
179	Twisted phonons in Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 065301.	1.5	4
180	Equilibrium and oscillations in a turbulent Bose-Einstein condensate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 065302.	1.5	4

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181	Nonlinear vortex-phonon interactions in a Bose-Einstein condensate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 145302.	1.5	4
182	Photon Bubbles in a Self-gravitating Dust Gas: Collective Dust Interactions. <i>Astrophysical Journal</i> , 2019, 872, 142.	4.5	4
183	Schrödinger-Newton Model with a Background. <i>Symmetry</i> , 2021, 13, 1007.	2.2	4
184	Temporal Klein Model for Particle-Pair Creation. <i>Symmetry</i> , 2021, 13, 1361.	2.2	4
185	Quasi-Static and Dynamic Photon Bubbles in Cold Atom Clouds. <i>Atoms</i> , 2022, 10, 45.	1.6	4
186	Scattering of waves by Langmuir solitons. <i>Journal of Plasma Physics</i> , 1983, 30, 65-73.	2.1	3
187	Regular and stochastic acceleration of electrons in the surfatron configuration. <i>Physica Scripta</i> , 1996, T63, 136-140.	2.5	3
188	Equivalent electric charge of photons in magnetized plasmas. <i>Physics of Plasmas</i> , 1999, 6, 627-628.	1.9	3
189	The Lenz-Ising model for elongated dust particles in a plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 282, 288-293.	2.1	3
190	Photon acceleration and polariton wakefields in dielectric crystals. <i>New Journal of Physics</i> , 2006, 8, 185-185.	2.9	3
191	Exact solution to neutrino-plasma two-flavor dynamics. <i>Journal of Plasma Physics</i> , 2013, 79, 991-993.	2.1	3
192	Photon mirror acceleration in the quantum regime. <i>Physics of Plasmas</i> , 2014, 21, 123105.	1.9	3
193	Orbital angular momentum of a γ -pulse emission by dense relativistic cold electron beam. <i>Physics of Plasmas</i> , 2017, 24, 123108.	1.9	3
194	Electron trapping in freely expanding ultracold neutral plasmas. <i>Physics of Plasmas</i> , 2019, 26, 033501.	1.9	3
195	Plasmon kinetics and ion instabilities. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 105009.	2.1	3
196	Enhanced scattering at the upper-hybrid resonance. <i>Plasma Physics</i> , 1976, 18, 405-412.	0.9	2
197	Nonlinear Transition Radiation in a Plasma. <i>Physical Review Letters</i> , 1979, 43, 354-356.	7.8	2
198	Nonlinear ambipolar diffusion waves. <i>Plasma Physics and Controlled Fusion</i> , 1985, 27, 777-781.	2.1	2

#	ARTICLE	IF	CITATIONS
199	Scattering of electromagnetic waves by counter-rotating vortex streets in plasmas. <i>Physics of Plasmas</i> , 1996, 3, 901-905.	1.9	2
200	Particle acceleration in plasmas by perpendicularly propagating waves. <i>Journal of Plasma Physics</i> , 2000, 64, 481-487.	2.1	2
201	Laser propagation in cylindrical waveguides. <i>Physical Review E</i> , 2002, 66, 046604.	2.1	2
202	Self-phase modulation of spherical gravitational waves. <i>Physical Review D</i> , 2003, 68, .	4.7	2
203	Dust quasiautom in a plasma. <i>Physics of Plasmas</i> , 2004, 11, 888-890.	1.9	2
204	Dust Quasiautom in a Magnetoplasma. <i>Physica Scripta</i> , 2004, , 82.	2.5	2
205	A coupled two-step plasma instability in PW laser plasma interactions. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, B799-B805.	2.1	2
206	COMPLEXITY IN PLASMAS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006, 16, 1871-1887.	1.7	2
207	Simulation of zonal flow excitation by drift mode turbulence: applications to tokamaks and the magnetopause. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124048.	2.1	2
208	Effective photon charge in relativistically hot electron-positron plasmas. <i>Physica Scripta</i> , 2008, 77, 018201.	2.5	2
209	Maxwell and the classical wave particle dualism. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 1771-1780.	3.4	2
210	New effects in quantum vacuum: photon undulator and transition radiation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 375403.	2.1	2
211	Ion acoustic waves in expanding strongly coupled plasmas. <i>Journal of Plasma Physics</i> , 2013, 79, 1063-1066.	2.1	2
212	Effective charge of intense laser pulses in plasmas. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	2
213	Time symmetry breaking in Bose-Einstein condensates. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 355501.	2.1	2
214	Superradiance in Quantum Vacuum. <i>Quantum Reports</i> , 2021, 3, 42-52.	1.3	2
215	Interaction of electromagnetic waves with a moving perturbation in a stationary gas. <i>Journal Physics D: Applied Physics</i> , 1983, 16, 287-292.	2.8	1
216	<title>High-energy ions produced from cluster explosions</title>. , 2001, , .		1

#	ARTICLE	IF	CITATIONS
217	Origin of ELF/ULF waves triggered by positive cloud to ground lightning above mesoscale connective systems. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	1
218	Time refraction of short laser pulses in optical fibers. , 2004, , .		1
219	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
220	Applications of the wave kinetic approach: from laser wakefields to drift wave turbulence. <i>Journal of Plasma Physics</i> , 2010, 76, 903-914.	2.1	1
221	Effective charge of photons and plasmons. <i>Journal of Plasma Physics</i> , 2010, 76, 287-292.	2.1	1
222	Time refraction and the perturbed quantum vacuum. <i>Journal of Russian Laser Research</i> , 2011, 32, 445-453.	0.6	1
223	Laser scattering by density fluctuations of ultra-cold atoms in a magneto-optical trap. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 095301.	1.5	1
224	Wave propagation through a moving plasma perturbation in a relativistic plasma. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 035006.	2.1	1
225	Second sound in a laser cooled gas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 1961-1965.	2.1	1
226	Ion acceleration by Alfvén waves on auroral field lines. <i>Physica Scripta</i> , 2013, 87, 058201.	2.5	1
227	Imperfect relativistic mirrors in the quantum regime. <i>Physics of Plasmas</i> , 2014, 21, 053109.	1.9	1
228	Wave Kinetic Description of Superfluidity. <i>Brazilian Journal of Physics</i> , 2014, 44, 340-345.	1.4	1
229	Photon acceleration as a scattering process. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 044011.	2.1	1
230	Transport equations for lower hybrid waves in a turbulent plasma. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	1
231	Tonks-Dattner resonances in a quantum plasma bubble. <i>Physical Review E</i> , 2016, 94, 023202.	2.1	1
232	Roton-induced trapping in strongly correlated Rydberg gases. <i>Physical Review A</i> , 2018, 98, .	2.5	1
233	Axion excitation by intense laser fields in a plasma. <i>Physica Scripta</i> , 2020, 95, 045601.	2.5	1
234	Wave-Kinetic Approach to Collective Atomic Emission. <i>Atoms</i> , 2020, 8, 42.	1.6	1

#	ARTICLE	IF	CITATIONS
235	Collective Urca Process. <i>Physica Scripta</i> , 2004, , 102.	2.5	1
236	Resonant wave scattering by magnetic fluctuations. <i>Plasma Physics and Controlled Fusion</i> , 1987, 29, 119-121.	2.1	0
237	<title>Application of highly nondegenerate cascaded four-wave mixing to high-order harmonic generation</title>. , 2001, , .		0
238	<title>Characterization of ionization fronts by photon acceleration</title>. , 2001, , .		0
239	Sliding resonance of parametric optical processes. <i>Optics Communications</i> , 2003, 222, 405-411.	2.1	0
240	Dust Convective Cells in a Magnetized Dust-Dust Plasma. <i>Physica Scripta</i> , 2004, , 63.	2.5	0
241	Nonlinear control of low-energy ultrashort laser pulses by cross-phase modulation in a photonic crystal fiber. , 2004, , .		0
242	Quasi-Particle View of Plasma Turbulence. <i>Physica Scripta</i> , 2004, , 13.	2.5	0
243	Characterization and optimization of a multiterawatt CPA laser system using SPIDER. , 2005, , .		0
244	Structure of Steady Particulate Seeded Plasma Flows Heated by a High Power Laser. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
245	Bandwidth increase by controlled angular dispersion of signal beam in optical parametric amplification. , 2005, , .		0
246	Laser Propulsion for ESA Missions: Ground to Orbit Launch Project Overview “ Part 1. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
247	Pair production by a strong wakefield excited by lasers in a magnetized plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2006, 103, 47-53.	0.9	0
248	Multi-band Astronomy with LISA. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
249	Dipolar radiation from spinning dust grains coupled to an electromagnetic wave. <i>Journal of Plasma Physics</i> , 2007, 73, 555-563.	2.1	0
250	PLASMA WAKES DRIVEN BY NEUTRINOS, PHOTONS AND ELECTRON BEAMS. <i>International Journal of Modern Physics B</i> , 2007, 21, 343-350.	2.0	0
251	Long Range Interactions With Laser Cooled Neutral Atoms. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
252	A new approach to the Sachs-Wolfe effect. <i>Classical and Quantum Gravity</i> , 2008, 25, 095015.	4.0	0

#	ARTICLE	IF	CITATIONS
253	Radiation forces between dust grains in a plasma. <i>Journal of Plasma Physics</i> , 2008, 74, 145-150.	2.1	0
254	Photon Landau damping of relativistic plasma waves. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
255	Entanglement generation in planar Penning traps. <i>Physical Review A</i> , 2010, 82, .	2.5	0
256	Physics of Ultra-cold and Rydberg Plasmas. , 2010, , .		0
257	Sound waves in ultra-cold matter. , 2012, , .		0
258	Preface: International Topical Conference on Plasma Science“Strongly Coupled Ultra-Cold and Quantum Plasmas. , 2012, , .		0
259	Quantum Field Theory of BECs. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2013, , 205-223.	0.2	0
260	Rotating BECs. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2013, , 241-256.	0.2	0
261	Quantum Coherence. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2013, , 257-274.	0.2	0
262	Atomic Clouds. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2013, , 63-88.	0.2	0
263	Waves and Oscillations in Clouds. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2013, , 89-114.	0.2	0
264	Elementary Excitations in BECs. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2013, , 163-180.	0.2	0
265	Photon kinetic description of nonlinear cross-phase modulation. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
266	A full wave theory of O-mode reflectometry with an intermediate level of turbulence. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 105008.	2.1	0
267	Modulational instabilities in relativistic pair plasmas. <i>Plasma Physics Reports</i> , 2016, 42, 537-542.	0.9	0
268	Amplification and Compression of Radiation Emitted by a Dense Relativistic Cold Electron Beam. <i>Brazilian Journal of Physics</i> , 2019, 49, 62-66.	1.4	0
269	Temporal optical processes in a Rydberg gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 164004.	1.5	0
270	Generation of Ultrasmooth Broadband Spectra by Gain-assisted Self-phase Modulation in a Ti:sapphire Laser. <i>Springer Series in Optical Sciences</i> , 2007, , 281-289.	0.7	0

#	ARTICLE	IF	CITATIONS
271	Raman scattering for intense high orbital angular momentum harmonic generation. , 2016, , .		0
272	Space-time refraction of light in time dependent media: the analogue within the analogue. , 2017, , .		0
273	Axions: search for dark matter using ultra-intense lasers. , 2019, , .		0
274	Twisted Waves near a Plasma Cutoff. Symmetry, 2022, 14, 146.	2.2	0