JosÃ© T MendonÃ§a

List of Publications by Year
in descending order

274	4,494	109321	155660
papers	citations	35 h-index	55 g-index

283	283	283	2208
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Twisted Waves near a Plasma Cutoff. Symmetry, 2022, 14, 146.	2.2	0
2	Quasi-Static and Dynamic Photon Bubbles in Cold Atom Clouds. Atoms, 2022, 10, 45.	1.6	4
3	Generalized superradiance for producing broadband coherent radiation with transversely modulated arbitrarily diluted bunches. Nature Physics, 2021, 17, 99-104.	16.7	10
4	Superradiance in Quantum Vacuum. Quantum Reports, 2021, 3, 42-52.	1.3	2
5	Photon bubble turbulence in cold atom gases. Nature Communications, 2021, 12, 3240.	12.8	7
6	SchrÃ¶dingerâ€“Newton Model with a Background. Symmetry, 2021, 13, 1007.	2.2	4
7	Temporal Klein Model for Particle-Pair Creation. Symmetry, 2021, 13, 1361.	2.2	4
8	Controlled beat-wave Brillouin scattering in the ionosphere. Nature Communications, 2021, 12, 6209.	12.8	8
9	Axion excitation by intense laser fields in a plasma. Physica Scripta, 2020, 95, 045601.	2.5	1
10	Wave-Kinetic Approach to Collective Atomic Emission. Atoms, 2020, 8, 42.	1.6	1
11	Turbulence excitation in counterstreaming paraxial superfluids of light. Physical Review A, 2020, 101, .	2.5	14
12	Temporal optical processes in a Rydberg gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 164004.	1.5	0
13	Multimode collective scattering of light in free space by a cold atomic gas. Physical Review A, 2019, 100, .	2.5	6
14	Dust oscillons with finite OAM and dust self-gravity effects. Physica Scripta, 2019, 94, 055602.	2.5	5
15	Photon Bubbles in a Self-gravitating Dust Gas: Collective Dust Interactions. Astrophysical Journal, 2019, 872, 142.	4.5	4
16	Wave-kinetic approach to the SchrÃ¶dingerâ€“Newton equation. New Journal of Physics, 2019, 21, 023004.	2.9	15
17	Electron trapping in freely expanding ultracold neutral plasmas. Physics of Plasmas, 2019, 26, 033501.	1.9	3
18	Amplification and Compression of Radiation Emitted by a Dense Relativistic Cold Electron Beam. Brazilian Journal of Physics, 2019, 49, 62-66.	1.4	0

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19	Axions: search for dark matter using ultra-intense lasers. , 2019, , .		0
20	Axion-Plasmon Polaritons in Strongly Magnetized Plasmas. Physical Review Letters, 2018, 120, 181803.	7.8	27
21	Twisted waves and instabilities in a permeating dusty plasma. Journal of Plasma Physics, 2018, 84, .	2.1	6
22	Light spring amplification in a multi-frequency Raman amplifier. Physics of Plasmas, 2018, 25, 123111.	1.9	6
23	Roton-induced trapping in strongly correlated Rydberg gases. Physical Review A, 2018, 98, .	2.5	1
24	Plasmon excitations with a semi-integer angular momentum. Scientific Reports, 2018, 8, 7817.	3.3	5
25	Optical Control of the Topology of Laser-Plasma Accelerators. Physical Review Letters, 2018, 121, 054801.	7.8	68
26	Quantum Landau damping in dipolar Bose-Einstein condensates. Physical Review A, 2018, 97, .	2.5	9
27	Coupling between ion-acoustic waves and neutrino oscillations. Physical Review E, 2017, 95, 013207.	2.1	8
28	Twisted waves in a magnetized plasma. Plasma Physics and Controlled Fusion, 2017, 59, 054003.	2.1	9
29	Effective charge of intense laser pulses in plasmas. European Physical Journal D, 2017, 71, 1.	1.3	2
30	Time symmetry breaking in Boseâ€“Einstein condensates. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 355501.	2.1	2
31	Neutrino-driven electrostatic instabilities in a magnetized plasma. Physical Review D, 2017, 96, .	4.7	5
32	Bose-Einstein condensation of photons in a plasma. Physical Review A, 2017, 95, .	2.5	13
33	Orbital angular momentum of a Ï€-pulse emission by dense relativistic cold electron beam. Physics of Plasmas, 2017, 24, 123108.	1.9	3
34	Twisted electrostatic waves in a selfâ€gravitating dusty plasma. Contributions To Plasma Physics, 2017, 57, 404-413.	1.1	17
35	Emission of twisted photons from quantum vacuum. Europhysics Letters, 2017, 120, 61001.	2.0	6
36	Generation and Applications of Extreme-Ultraviolet Vortices. Photonics, 2017, 4, 28.	2.0	41

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37	Space-time refraction of light in time dependent media: the analogue within the analogue. , 2017, , .		0
38	Photon and electron Landau damping in quantum plasmas. Physica Scripta, 2016, 91, 095601.	2.5	12
39	High Orbital Angular Momentum Harmonic Generation. Physical Review Letters, 2016, 117, 265001.	7.8	66
40	Twisted Landau damping rates in multi-component dusty plasmas. Physics of Plasmas, 2016, 23, .	1.9	18
41	Neutrino magnetohydrodynamics. Physics of Plasmas, 2016, 23, .	1.9	13
42	Excitation of high orbital angular momentum Rydberg states with Laguerreâ€“Gauss beams. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074007.	1.5	26
43	Nonlinear vortex-phonon interactions in a Boseâ€“Einstein condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 145302.	1.5	4
44	Tonks-Dattner resonances in a quantum plasma bubble. Physical Review E, 2016, 94, 023202.	2.1	1
45	Equation of state of a laser-cooled gas. Physical Review A, 2016, 93, .	2.5	11
46	Amplification and generation of ultra-intense twisted laser pulses via stimulated Raman scattering. Nature Communications, 2016, 7, 10371.	12.8	153
47	Modulational instabilities in relativistic pair plasmas. Plasma Physics Reports, 2016, 42, 537-542.	0.9	0
48	Collective processes in a large atomic laser cooling experiment. Optical and Quantum Electronics, 2016, 48, 1.	3.3	5
49	Raman scattering for intense high orbital angular momentum harmonic generation. , 2016, , .		0
50	High harmonic generation in underdense plasmas by intense laser pulses with orbital angular momentum. Physics of Plasmas, 2015, 22, 123106.	1.9	14
51	The transition from the classical to the quantum regime in nonlinear Landau damping. Physica Scripta, 2015, 90, 068020.	2.5	15
52	Equilibrium and oscillations in a turbulent Boseâ€“Einstein condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 065302.	1.5	4
53	Photon acceleration as a scattering process. Plasma Physics and Controlled Fusion, 2015, 57, 044011.	2.1	1
54	Transport equations for lower hybrid waves in a turbulent plasma. Journal of Plasma Physics, 2015, 81, .	2.1	1

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55	Nonlinear evolution of a single coherent mode in a turbulent plasma. Plasma Physics and Controlled Fusion, 2014, 56, 055004.	2.1	7
56	Photon mirror acceleration in the quantum regime. Physics of Plasmas, 2014, 21, 123105.	1.9	3
57	Donut wakefields generated by intense laser pulses with orbital angular momentum. Physics of Plasmas, 2014, 21, .	1.9	54
58	Influence of flavor oscillations on neutrino beam instabilities. Physics of Plasmas, 2014, 21, .	1.9	8
59	Imperfect relativistic mirrors in the quantum regime. Physics of Plasmas, 2014, 21, 053109.	1.9	1
60	Dynamical Casimir effect in ultra-cold matter with a time-dependent effective charge. Physica Scripta, 2014, T160, 014008.	2.5	14
61	Time Crystals in Ultracold Matter. Journal of Russian Laser Research, 2014, 35, 93-100.	0.6	8
62	Vlasov equation for photons and quasi-particles in a plasma. European Physical Journal D, 2014, 68, 1.	1.3	8
63	Kinetic study of ion-acoustic plasma vortices. Physics of Plasmas, 2014, 21, .	1.9	28
64	Wave Kinetic Description of Superfluidity. Brazilian Journal of Physics, 2014, 44, 340-345.	1.4	1
65	Twisted phonons in Boseâ€“Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 065301.	1.5	4
66	Polytropic equilibrium and normal modes in cold atomic traps. Physical Review A, 2013, 88, .	2.5	14
67	Quantum Field Theory of BECs. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , 205-223.	0.2	0
68	Rotating BECs. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , 241-256.	0.2	0
69	Quantum Coherence. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , 257-274.	0.2	0
70	Atomic Clouds. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , 63-88.	0.2	0
71	Waves and Oscillations in Clouds. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , 89-114.	0.2	0
72	Elementary Excitations in BECs. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , 163-180.	0.2	0

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73	Ion acoustic waves in expanding strongly coupled plasmas. Journal of Plasma Physics, 2013, 79, 1063-1066.	2.1	2
74	Exact solution to neutrino-plasma two-flavor dynamics. Journal of Plasma Physics, 2013, 79, 991-993.	2.1	3
75	Quantum fluid model of coherent stimulated radiation by a dense relativistic cold electron beam. Physics of Plasmas, 2013, 20, .	1.9	14
76	Second sound in a laser cooled gas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1961-1965.	2.1	1
77	Photon kinetic description of nonlinear cross-phase modulation. Proceedings of SPIE, 2013, , .	0.8	0
78	Neutrino oscillations in a turbulent plasma. Physics of Plasmas, 2013, 20, .	1.9	6
79	Plasmons carrying orbital angular momentum in quantum plasmas. Journal of Plasma Physics, 2013, 79, 973-979.	2.1	19
80	Inverse bremsstrahlung in relativistic quantum plasmas. Physical Review E, 2013, 87, 063112.	2.1	6
81	A full wave theory of O-mode reflectometry with an intermediate level of turbulence. Plasma Physics and Controlled Fusion, 2013, 55, 105008.	2.1	0
82	Ion acceleration by AlfvÃ©n waves on auroral field lines. Physica Scripta, 2013, 87, 058201.	2.5	1
83	Kinetic description of electron plasma waves with orbital angular momentum. Physics of Plasmas, 2012, 19, .	1.9	51
84	Wave propagation through a moving plasma perturbation in a relativistic plasma. Plasma Physics and Controlled Fusion, 2012, 54, 035006.	2.1	1
85	Sound waves in ultra-cold matter. , 2012, , .		0
86	Nonlinear instability saturation due to quasi-particle trapping in a turbulent plasma. Physics of Plasmas, 2012, 19, 082316.	1.9	6
87	Twisted waves in a plasma. Plasma Physics and Controlled Fusion, 2012, 54, 124031.	2.1	28
88	Photon Bubbles in Ultracold Matter. Physical Review Letters, 2012, 108, 033001.	7.8	40
89	Classical rotons in cold atomic traps. Physical Review A, 2012, 86, .	2.5	11
90	Preface: International Topical Conference on Plasma Scienceâ€"Strongly Coupled Ultra-Cold and Quantum Plasmas. , 2012, , .		0

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91	Nonlocal plasmon excitation in metallic nanostructures. Physical Review B, 2011, 83, .	3.2	17
92	Ion-acoustic waves in a nonstationary ultra-cold neutral plasma. Physics of Plasmas, 2011, 18, 042101.	1.9	15
93	Phonons with orbital angular momentum. Physics of Plasmas, 2011, 18, .	1.9	33
94	Wave kinetics of relativistic quantum plasmas. Physics of Plasmas, 2011, 18, .	1.9	71
95	Time refraction and the perturbed quantum vacuum. Journal of Russian Laser Research, 2011, 32, 445-453.	0.6	1
96	The influence of temporal coherence on the dynamical Casimir effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2665-2669.	2.1	8
97	Laser scattering by density fluctuations of ultra-cold atoms in a magneto-optical trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 095301.	1.5	1
98	Production of bright entangled photons from moving optical boundaries. Physical Review A, 2011, 83, .	2.5	7
99	Volkov solutions for relativistic quantum plasmas. Physical Review E, 2011, 83, 026406.	2.1	32
100	Inverse Faraday effect with plasmon beams. Plasma Physics and Controlled Fusion, 2011, 53, 045007.	2.1	7
101	Improved model of quasi-particle turbulence (with applications to AlfvÃ©n and drift wave turbulence). Physics of Plasmas, 2011, 18, 112306.	1.9	15
102	Entanglement generation in planar Penning traps. Physical Review A, 2010, 82, .	2.5	0
103	Physics of Ultra-cold and Rydberg Plasmas. , 2010, , .		0
104	Applications of the wave kinetic approach: from laser wakefields to drift wave turbulence. Journal of Plasma Physics, 2010, 76, 903-914.	2.1	1
105	Effective charge of photons and plasmons. Journal of Plasma Physics, 2010, 76, 287-292.	2.1	1
106	Inverse Faraday Effect with Linearly Polarized Laser Pulses. Physical Review Letters, 2010, 105, 035001.	7.8	94
107	Collective oscillations of ultracold matter. Physical Review A, 2010, 81, .	2.5	18
108	Photon orbital angular momentum and mass in a plasma vortex. Europhysics Letters, 2010, 90, 45001.	2.0	30

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109	Driven collective instabilities in magneto-optical traps: A fluid-dynamical approach. Europhysics Letters, 2010, 89, 53001.	2.0	17
110	Rossby waves in rapidly rotating Boseâ€“Einstein condensates. New Journal of Physics, 2010, 12, 093001.	2.9	4
111	Magnetization of Rydberg plasmas by electromagnetic waves. Journal of Plasma Physics, 2010, 76, 19-23.	2.1	5
112	A phonon laser in ultra-cold matter. Europhysics Letters, 2010, 91, 33001.	2.0	20
113	Two-stream instability in quasi-one-dimensional Bose-Einstein condensates. Physical Review A, 2009, 79, .	2.5	5
114	Plasmons with orbital angular momentum. Physics of Plasmas, 2009, 16, 112103.	1.9	64
115	Stimulated Raman and Brillouin Backscattering of Collimated Beams Carrying Orbital Angular Momentum. Physical Review Letters, 2009, 102, 185005.	7.8	142
116	Dephasing of a non-relativistic quantum particle due to a conformally fluctuating spacetime. Classical and Quantum Gravity, 2009, 26, 145013.	4.0	15
117	Laser wakefield acceleration in the Petawatt regime. Plasma Physics and Controlled Fusion, 2009, 51, 024007.	2.1	6
118	Photon acceleration and modulational instability during wakefield excitation using long laser pulses. Plasma Physics and Controlled Fusion, 2009, 51, 024008.	2.1	14
119	Time refraction in expanding plasma bubbles. New Journal of Physics, 2009, 11, 013029.	2.9	7
120	Nonlinear excitation of zonal flows by Rossby wave turbulence. New Journal of Physics, 2009, 11, 073038.	2.9	4
121	New effects in quantum vacuum: photon undulator and transition radiation. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 375403.	2.1	2
122	Quantum plasma fluid model for high-gain free-electron lasers. Plasma Physics and Controlled Fusion, 2009, 51, 124024.	2.1	48
123	Waves in Rydberg plasmas. Journal of Plasma Physics, 2009, 75, 713-719.	2.1	11
124	GAUGE: the GrAnd Unification and Gravity Explorer. Experimental Astronomy, 2009, 23, 549-572.	3.7	15
125	Photon Landau damping of relativistic plasma waves. Proceedings of SPIE, 2009, , .	0.8	0
126	Applications of the wave kinetic approach: From laser wakefields to drift wave turbulence. Physics of Plasmas, 2009, 16, 055904.	1.9	12

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127	Cascaded nondegenerate four-wave-mixing technique for high-power single-cycle pulse synthesis in the visible and ultraviolet ranges. Physical Review A, 2009, 79, .	2.5	47
128	Vacuum effects in a vibrating cavity: Time refraction, dynamical Casimir effect, and effective Unruh acceleration. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5621-5624.	2.1	29
129	Wave kinetic description of Bogoliubov oscillations in the Boseâ€“Einstein condensate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2311-2314.	2.1	7
130	Plasma kinetics issues in an ESA study for a plasma laboratory in space. Plasma Physics and Controlled Fusion, 2008, 50, 074016.	2.1	1
131	Gamma ray sources using imperfect relativistic mirrors. Physics of Plasmas, 2008, 15, .	1.9	6
132	Simulation of zonal flow excitation by drift mode turbulence: applications to tokamaks and the magnetopause. Plasma Physics and Controlled Fusion, 2008, 50, 124048.	2.1	2
133	Long Range Interactions With Laser Cooled Neutral Atoms. AIP Conference Proceedings, 2008, , .	0.4	0
134	Effective photon charge in relativistically hot electronâ€“positron plasmas. Physica Scripta, 2008, 77, 018201.	2.5	2
135	A new approach to the Sachsâ€“Wolfe effect. Classical and Quantum Gravity, 2008, 25, 095015.	4.0	0
136	Quantum Trivelpieceâ€“Gould waves in a magnetized dense plasma. Physics of Plasmas, 2008, 15, 072109.	1.9	17
137	Collective oscillations in ultracold atomic gas. Physical Review A, 2008, 78, .	2.5	51
138	Quantum wave kinetics of high-gain free-electron lasers. Physics of Plasmas, 2008, 15, .	1.9	58
139	Wave kinetic description of quantum pair plasmas. Journal of Plasma Physics, 2008, 74, 91-97.	2.1	9
140	Radiation forces between dust grains in a plasma. Journal of Plasma Physics, 2008, 74, 145-150.	2.1	0
141	Maxwell and the classical wave particle dualism. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1771-1780.	3.4	2
142	Neutrino orbital angular momentum in a plasma vortex. Europhysics Letters, 2008, 84, 41001.	2.0	23
143	Plasmon kinetics and ion instabilities. Plasma Physics and Controlled Fusion, 2008, 50, 105009.	2.1	3
144	Laser Propulsion for Ground Launch. Journal of Propulsion and Power, 2007, 23, 73-80.	2.2	5

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145	Axion excitation by intense laser fields. Europhysics Letters, 2007, 79, 21001.	2.0	24
146	Spontaneous Generation of Self-Organized Solitary Wave Structures at Earthâ€™s Magnetopause. Physical Review Letters, 2007, 99, 205006.	7.8	35
147	Excitation of ion-acoustic perturbations by incoherent kinetic AlfvÃ©n waves in plasmas. Physics of Plasmas, 2007, 14, 122304.	1.9	8
148	Dipolar radiation from spinning dust grains coupled to an electromagnetic wave. Journal of Plasma Physics, 2007, 73, 555-563.	2.1	0
149	Reflection of an electron beam by a photon mirror. Journal of Plasma Physics, 2007, 73, 627-634.	2.1	16
150	Hamiltonian formulation of direct laser acceleration in vacuum. Journal of Plasma Physics, 2007, 73, 635-647.	2.1	12
151	PLASMA WAKES DRIVEN BY NEUTRINOS, PHOTONS AND ELECTRON BEAMS. International Journal of Modern Physics B, 2007, 21, 343-350.	2.0	0
152	Generation of Ultrasmooth Broadband Spectra by Gain-assisted Self-phase Modulation in a Ti:sapphire Laser. Springer Series in Optical Sciences, 2007, , 281-289.	0.7	0
153	Photon Landau damping of electron plasma waves with photon recoil. Physics of Plasmas, 2006, 13, 102109.	1.9	28
154	Mass for plasma photons from gauge symmetry breaking. Europhysics Letters, 2006, 75, 189-194.	2.0	5
155	Quantum gravitational decoherence of matter waves. Classical and Quantum Gravity, 2006, 23, L59-L65.	4.0	51
156	Photon acceleration in vacuum. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 700-704.	2.1	23
157	Laser Propulsion for ESA Missions: Ground to Orbit Launch Project Overview â€" Part 1. AIP Conference Proceedings, 2006, , .	0.4	0
158	Pair production by a strong wakefield excited by lasers in a magnetized plasma. Journal of Experimental and Theoretical Physics, 2006, 103, 47-53.	0.9	0
159	Wave kinetics and photon acceleration. Physica Scripta, 2006, 74, C61-C69.	2.5	9
160	Photon acceleration and polariton wakefields in dielectric crystals. New Journal of Physics, 2006, 8, 185-185.	2.9	3
161	Multi-band Astronomy with LISA. AIP Conference Proceedings, 2006, , .	0.4	0
162	Modulational instability of spatially broadband nonlinear optical pulses in four-state atomic systems. Physical Review E, 2006, 74, 067603.	2.1	7

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163	Using High-Power Lasers for Detection of Elastic Photon-Photon Scattering. Physical Review Letters, 2006, 96, 083602.	7.8	155
164	Higher Harmonics In Vacuum From Nonlinear QED Effects without Low-Mass Intermediate Particles. Physical Review Letters, 2006, 97, 100403.	7.8	15
165	Statistical properties of the continuum Salerno model. Physical Review A, 2006, 74, .	2.5	4
166	Analysis of four-wave mixing of high-power lasers for the detection of elastic photon-photon scattering. Physical Review A, 2006, 74, .	2.5	46
167	Evidence of photon acceleration by laser wake fields. Physics of Plasmas, 2006, 13, 033108.	1.9	88
168	COMPLEXITY IN PLASMAS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1871-1887.	1.7	2
169	Observation of ion temperatures exceeding background electron temperatures in petawatt laser-solid experiments. Plasma Physics and Controlled Fusion, 2005, 47, L49-L56.	2.1	17
170	Physical problems of artificial magnetospheric propulsion. Journal of Plasma Physics, 2005, 71, 495-501.	2.1	5
171	Wave kinetic treatment of forward four-wave stimulated scattering instabilities. Journal of Plasma Physics, 2005, 71, 899.	2.1	10
172	Parametric excitation of neutrino pairs by electron plasma waves. Journal of Plasma Physics, 2005, 71, 119-125.	2.1	6
173	Characterization and optimization of a multiterawatt CPA laser system using SPIDER. , 2005, , .		0
174	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
175	Wakefield of Boseâ€“Einstein condensates in a background thermal gas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 340, 355-360.	2.1	6
176	A kinetic approach to Bose-Einstein condensates: Self-phase modulation and Bogoliubov oscillations. Journal of Experimental and Theoretical Physics, 2005, 101, 942-948.	0.9	7
177	Structure of Steady Particulate Seeded Plasma Flows Heated by a High Power Laser. AIP Conference Proceedings, 2005, , .	0.4	0
178	A coupled two-step plasma instability in PW laser plasma interactions. Plasma Physics and Controlled Fusion, 2005, 47, B799-B805.	2.1	2
179	Effects of Landau quantization on the equations of state in intense laser plasma interactions with strong magnetic fields. Physics of Plasmas, 2005, 12, 052115.	1.9	31
180	Quasiparticle Approach to the Modulational Instability of Drift Waves Coupling to Zonal Flows. Physical Review Letters, 2005, 94, 165002.	7.8	32

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181	Beam Instabilities in Laser-Plasma Interaction: Relevance to Preferential Ion Heating. Physical Review Letters, 2005, 94, .	7.8	37
182	Time refraction and the quantum properties of vacuum. Physical Review A, 2005, 72, .	2.5	41
183	New mechanism of vacuum radiation from non-accelerated moving boundaries. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S69-S76.	1.4	12
184	Bandwidth increase by controlled angular dispersion of signal beam in optical parametric amplification. , 2005, , .		0
185	Dust Convective Cells in a Magnetized Dust-Dust Plasma. Physica Scripta, 2004, , 63.	2.5	0
186	Neutrino plasma coupling in dense astrophysical plasmas. Plasma Physics and Controlled Fusion, 2004, 46, B327-B334.	2.1	14
187	Dust quasiatom in a plasma. Physics of Plasmas, 2004, 11, 888-890.	1.9	2
188	Laser pulse frequency up-shifts by relativistic ionization fronts. Europhysics Letters, 2004, 66, 371-377.	2.0	25
189	Excitation of strong wakefields by intense neutrino bursts in a magnetized electron-positron plasma. Journal of Experimental and Theoretical Physics, 2004, 99, 466-473.	0.9	7
190	Origin of ELF/ULF waves triggered by positive cloud to ground lightning above mesoscale connective systems. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	1
191	Plasma based charged-particle accelerators. Plasma Physics and Controlled Fusion, 2004, 46, R1-R23.	2.1	213
192	Neutrino (antineutrino) effective charge in a magnetized electronâ€“positron plasma. Physics of Plasmas, 2004, 11, 1352-1357.	1.9	10
193	Time refraction of short laser pulses in optical fibers. , 2004, , .		1
194	Nonlinear control of low-energy ultrashort laser pulses by cross-phase modulation in a photonic crystal fiber. , 2004, , .		0
195	Quasi-Particle View of Plasma Turbulence. Physica Scripta, 2004, , 13.	2.5	0
196	Low-Frequency Electromagnetic Waves in a Magnetized Electron-Positron-Ion Plasma. Physica Scripta, 2004, , 133.	2.5	6
197	Dust Quasiatom in a Magnetoplasma. Physica Scripta, 2004, , 82.	2.5	2
198	Collective Urca Process. Physica Scripta, 2004, , 102.	2.5	1

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199	Sliding resonance of parametric optical processes. Optics Communications, 2003, 222, 405-411.	2.1	0
200	Nonlinear self-interaction of plane gravitational waves. Physical Review D, 2003, 67, .	4.7	7
201	Collective plasma effects in scattering of radiation in astrophysical plasmas. Physics of Plasmas, 2003, 10, 3297-3308.	1.9	8
202	Self-phase modulation of spherical gravitational waves. Physical Review D, 2003, 68, .	4.7	2
203	Temporal beam splitter and temporal interference. Physical Review A, 2003, 68, .	2.5	40
204	Resonant quasiparticles in plasma turbulence. Physical Review E, 2003, 68, 016406.	2.1	27
205	Cyclotron Maser Radiation from Astrophysical Shocks. Astrophysical Journal, 2003, 595, 279-284.	4.5	29
206	Gravitational optics: Self-phase modulation and harmonic cascades. Physical Review D, 2002, 66, .	4.7	5
207	Two-dimensional collision of probe photons with relativistic ionization fronts. Physical Review E, 2002, 65, 036404.	2.1	8
208	Plasmon beam instability and plasmon Landau damping of ion acoustic waves. Physics of Plasmas, 2002, 9, 2604-2608.	1.9	26
209	Time Refraction and Time Reflection: Two Basic Concepts. Physica Scripta, 2002, 65, 160-163.	2.5	84
210	Thomas-Fermi model for a dust particle in a plasma. Europhysics Letters, 2002, 57, 362-367.	2.0	4
211	Laser propagation in cylindrical waveguides. Physical Review E, 2002, 66, 046604.	2.1	2
212	Photon acceleration of ultrashort laser pulses by relativistic ionization fronts. Physical Review E, 2002, 66, 056406.	2.1	14
213	Neutrino-driven wakefields in an electronâ€“positron plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 305, 190-195.	2.1	7
214	<title>Application of highly nondegenerate cascaded four-wave mixing to high-order harmonic generation</title>. , 2001, , .		0
215	<title>Characterization of ionization fronts by photon acceleration</title>. , 2001, , .		0
216	Casimir effect in a turbulent plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 233-239.	2.1	4

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217	A new method for high-harmonic generation by cascaded four-wave mixing. Optics Communications, 2001, 188, 383-388.	2.1	8
218	Photon kinetic theory of self-phase modulation. Optics Communications, 2001, 196, 285-291.	2.1	25
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