

Mattias Marklund

List of Publications by Year in descending order

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252
papers

8,649
citations

57758

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all docs

254
docs citations

254
times ranked

2589
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized Computation of Tight Focusing of Short Pulses Using Mapping to Periodic Space. Applied Sciences (Switzerland), 2021, 11, 956.	2.5	5
2	Self-absorption of synchrotron radiation in a laser-irradiated plasma. Physics of Plasmas, 2021, 28, .	1.9	1
3	Towards ML-Based Diagnostics of Laser-Plasma Interactions. Sensors, 2021, 21, 6982.	3.8	3
4	Dedekind-like. Mathematical Intelligencer, 2020, 42, 42-43.	0.2	0
5	Radiation beaming in the quantum regime. Physical Review A, 2020, 101, .	2.5	17
6	Model-independent inference of laser intensity. Physical Review Accelerators and Beams, 2020, 23, .	1.6	9
7	Electron bunch evolution in laser-wakefield acceleration. Physical Review Accelerators and Beams, 2020, 23, .	1.6	5
8	Realising single-shot measurements of quantum radiation reaction in high-intensity lasers. New Journal of Physics, 2019, 21, 053030.	2.9	9
9	Laser-Particle Collider for Multi-GeV Photon Production. Physical Review Letters, 2019, 122, 254801.	7.8	35
10	Orbital Angular Momentum Coupling in Elastic Photon-Photon Scattering. Physical Review Letters, 2019, 123, 113604.	7.8	12
11	Physics of the laser-plasma interface in the relativistic regime of interaction. Physics of Plasmas, 2019, 26, 053101.	1.9	2
12	Reaching supercritical field strengths with intense lasers. New Journal of Physics, 2019, 21, 053040.	2.9	48
13	Multiple colliding laser pulses as a basis for studying high-field high-energy physics. Physical Review A, 2019, 100, .	2.5	15
14	Prospects and limitations of wakefield acceleration in solids. Physics of Plasmas, 2018, 25, .	1.9	12
15	Experimental Evidence of Radiation Reaction in the Collision of a High-Intensity Laser Pulse with a Laser-Wakefield Accelerated Electron Beam. Physical Review X, 2018, 8, .	8.9	234
16	Prospects for laser-driven ion acceleration through controlled displacement of electrons by standing waves. Physics of Plasmas, 2018, 25, 053109.	1.9	2
17	A spectrometer for ultrashort gamma-ray pulses with photon energies greater than 10 MeV. Review of Scientific Instruments, 2018, 89, 113303.	1.3	21
18	Radiation-dominated particle and plasma dynamics. Physics of Plasmas, 2018, 25, .	1.9	20

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19	Nonlinear Breit-Wheeler pair creation with bremsstrahlung γ rays. Plasma Physics and Controlled Fusion, 2018, 60, 054009.	2.1	29
20	Benchmarking semiclassical approaches to strong-field QED: Nonlinear Compton scattering in intense laser pulses. Physics of Plasmas, 2018, 25, .	1.9	53
21	Relativistically intense XUV radiation from laser-illuminated near-critical plasmas. Physical Review A, 2018, 98, .	2.5	21
22	10.1063/1.5047799.1. , 2018, , .		0
23	Quantum Quenching of Radiation Losses in Short Laser Pulses. Physical Review Letters, 2017, 118, 105004.	7.8	57
24	Controlling laser-ion acceleration through pulse chirping. , 2017, , .		0
25	Depletion of intense fields. AIP Conference Proceedings, 2017, , .	0.4	0
26	Scaling laws for positron production in laser-electron-beam collisions. Physical Review A, 2017, 96, .	2.5	43
27	Ultrabright GeV Photon Source via Controlled Electromagnetic Cascades in Laser-Dipole Waves. Physical Review X, 2017, 7, .	8.9	65
28	Radiation emission from braided electrons in interacting wakefields. Physics of Plasmas, 2017, 24, 093101.	1.9	4
29	Signatures of quantum effects on radiation reaction in laser-electron-beam collisions. Journal of Plasma Physics, 2017, 83, .	2.1	55
30	Multilevel model for magnetic deflagration in nanomagnet crystals. Physical Review B, 2017, 95, .	3.2	1
31	Depletion of Intense Fields. Physical Review Letters, 2017, 118, 154803.	7.8	46
32	Ultra-intense laser pulses in near-critical underdense plasmas - radiation reaction and energy partitioning. Journal of Plasma Physics, 2017, 83, .	2.1	8
33	Transverse expansion of the electron sheath during laser acceleration of protons. Physics of Plasmas, 2017, 24, 123109.	1.9	0
34	Energy partitioning and electron momentum distributions in intense laser-solid interactions. European Physical Journal D, 2017, 71, 1.	1.3	2
35	Reaching high flux in laser-driven ion acceleration. European Physical Journal D, 2017, 71, 1.	1.3	6
36	Manipulation of the spatial distribution of laser-accelerated proton beams by varying the laser intensity distribution. Physics of Plasmas, 2016, 23, .	1.9	20

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37	Prospects for studying vacuum polarisation using dipole and synchrotron radiation. Journal of Plasma Physics, 2016, 82, .	2.1	30
38	Chirped-Standing-Wave Acceleration of Ions with Intense Lasers. Physical Review Letters, 2016, 117, 104801.	7.8	27
39	Narrowing of the emission angle in high-intensity Compton scattering. Physical Review A, 2016, 93, .	2.5	22
40	Counterpart of the Darrieus-Landau instability at a magnetic deflagration front. Physical Review B, 2016, 93, .	3.2	0
41	Quantum Radiation Reaction: From Interference to Incoherence. Physical Review Letters, 2016, 116, 044801.	7.8	82
42	Single-step propagators for calculation of time evolution in quantum systems with arbitrary interactions. Computer Physics Communications, 2016, 202, 211-215.	7.5	4
43	Focusing effects in laser-electron Thomson scattering. Physical Review Accelerators and Beams, 2016, 19, .	1.6	26
44	Publisher's Note: Extended particle-in-cell schemes for physics in ultrastrong laser fields: Review and developments [Phys. Rev. E, 023305 (2015)]. Physical Review E, 2015, 92, .	2.1	13
45	Extended particle-in-cell schemes for physics in ultrastrong laser fields: Review and developments. Physical Review E, 2015, 92, 023305.	2.1	181
46	Thomson scattering in high-intensity chirped laser pulses. Physics of Plasmas, 2015, 22, .	1.9	16
47	High-energy gamma-ray beams from nonlinear Thomson and Compton scattering in the ultra-intense regime. Proceedings of SPIE, 2015, , .	0.8	2
48	Detecting radiation reaction at moderate laser intensities. Physical Review E, 2015, 91, 023207.	2.1	14
49	On the contribution of exchange interactions to the Vlasov equation. European Physical Journal D, 2015, 69, 1.	1.3	14
50	Effects of high energy photon emissions in laser generated ultra-relativistic plasmas: Real-time synchrotron simulations. Physics of Plasmas, 2015, 22, .	1.9	13
51	Magnetic detonation structure in crystals of nanomagnets controlled by thermal conduction and volume viscosity. Physical Review B, 2015, 91, .	3.2	0
52	Multidimensional Instability and Dynamics of Spin Avalanches in Crystals of Nanomagnets. Physical Review Letters, 2014, 113, 217206.	7.8	7
53	Evolution of the magnetic field generated by the Kelvin-Helmholtz instability. Physics of Plasmas, 2014, 21, .	1.9	6
54	Vacuum refractive indices and helicity flip in strong-field QED. Physical Review D, 2014, 89, .	4.7	104

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55	Photon polarization in light-by-light scattering: Finite size effects. Physical Review D, 2014, 90, .	4.7	69
56	Turbulence in binary Bose-Einstein condensates generated by highly nonlinear Rayleigh-Taylor and Kelvin-Helmholtz instabilities. Physical Review A, 2014, 89, .	2.5	20
57	Anomalous Radiative Trapping in Laser Fields of Extreme Intensity. Physical Review Letters, 2014, 113, 014801.	7.8	125
58	Probing Nonperturbative QED with Optimally Focused Laser Pulses. Physical Review Letters, 2013, 111, 060404.	7.8	83
59	Exchange effects in plasmas: The case of low-frequency dynamics. Physical Review E, 2013, 88, 063105.	2.1	38
60	Scalar Wigner theory for polarized light in nonlinear Kerr media. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1765.	2.1	6
61	Electron acceleration and emission in a field of a plane and converging dipole wave of relativistic amplitudes with the radiation reaction force taken into account. Quantum Electronics, 2013, 43, 291-299.	1.0	11
62	Anisotropic properties of spin avalanches in crystals of nanomagnets. Physical Review B, 2013, 87, .	3.2	9
63	Laser wakefield acceleration using wire produced double density ramps. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	33
64	Particle-in-cell simulations of electron spin effects in plasmas. Journal of Plasma Physics, 2013, 79, 377-382.	2.1	7
65	Effects of radiation damping on the dynamics of electrons in ELI intensity laser fields. , 2012, , .		0
66	Nonlinear dynamics of corrugated doping fronts in organic optoelectronic devices. Physical Review B, 2012, 85, .	3.2	6
67	Proton acceleration by circularly polarized traveling electromagnetic wave. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	8
68	Parametric resonance of capillary waves at the interface between two immiscible Bose-Einstein condensates. Physical Review A, 2012, 86, .	2.5	21
69	Quantum swapping of immiscible Bose-Einstein condensates as an alternative to the Rayleigh-Taylor instability. Physical Review A, 2012, 85, .	2.5	10
70	Radiation damping in pulsed Gaussian beams. Physical Review A, 2012, 85, .	2.5	25
71	Semi-relativistic effects in spin-1/2 quantum plasmas. New Journal of Physics, 2012, 14, 073042.	2.9	75
72	RADIATION DAMPING AND THE ELECTRON MASS SHIFT IN HIGH INTENSITY LASER FIELDS. International Journal of Modern Physics Conference Series, 2012, 14, 367-375.	0.7	1

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73	Intensity-Dependent Electron Mass Shift in a Laser Field: Existence, Universality, and Detection. <i>Physical Review Letters</i> , 2012, 109, 100402.	7.8	80
74	QED Experiments in Intense Fields. , 2012, , .		0
75	Symmetry breaking from radiation reaction in ultra-intense laser fields. <i>Physical Review D</i> , 2011, 84, .	4.7	40
76	Wakefield generation in magnetized plasmas. <i>Physical Review E</i> , 2011, 84, 036409.	2.1	22
77	Spin and magnetization effects in plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 074013.	2.1	36
78	Internal Structure of Planar Electrochemical Doping Fronts in Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21915-21926.	3.1	12
79	Stability of two-dimensional ion-acoustic wave packets in quantum plasmas. <i>Physics of Plasmas</i> , 2011, 18, 042102.	1.9	12
80	Ultrarelativistic nanoplasmonics as a route towards extreme-intensity attosecond pulses. <i>Physical Review E</i> , 2011, 84, 046403.	2.1	107
81	Generation of giant attosecond pulses at the plasma surface in the regime of relativistic electronic spring. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
82	Probing new physics using high-intensity laser systems. , 2011, , .		0
83	Gauge-free Hamiltonian structure of the spin Maxwell-Vlasov equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2362-2365.	2.1	9
84	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
85	Hollow microspheres as targets for staged laser-driven proton acceleration. <i>New Journal of Physics</i> , 2011, 13, 013030.	2.9	22
86	Speedup of Doping Fronts in Organic Semiconductors through Plasma Instability. <i>Physical Review Letters</i> , 2011, 107, 016103.	7.8	25
87	Pair annihilation in laser pulses: Optical versus x-ray free-electron laser regimes. <i>Physical Review A</i> , 2011, 84, .	2.5	17
88	Interface dynamics of a two-component Bose-Einstein condensate driven by an external force. <i>Physical Review A</i> , 2011, 83, .	2.5	29
89	Pair production: The view from the lightfront. <i>Physical Review D</i> , 2011, 84, .	4.7	23
90	Strong field effects in laser pulses: The Wigner formalism. <i>Physical Review D</i> , 2011, 83, .	4.7	39

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91	Ponderomotive force due to the intrinsic spin in extended fluid and kinetic models. <i>Physical Review E</i> , 2011, 83, 036410.	2.1	37
92	Ultrafast Spin Avalanches in Crystals of Nanomagnets in Terms of Magnetic Detonation. <i>Physical Review Letters</i> , 2011, 107, 207208.	7.8	19
93	Pulsating regime of magnetic deflagration in crystals of molecular magnets. <i>Physical Review B</i> , 2011, 83, .	3.2	15
94	Magnetic Richtmyer-Meshkov instability in a two-component Bose-Einstein condensate. <i>Physical Review A</i> , 2010, 82, .	2.5	37
95	Fluid moment hierarchy equations derived from quantum kinetic theory. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 481-484.	2.1	31
96	Finite size effects in stimulated laser pair production. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 692, 250-256.	4.1	145
97	Noncommutativity and the lightfront. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2010, 199, 153-159.	0.4	1
98	Probing the quantum vacuum. <i>Nature Photonics</i> , 2010, 4, 72-74.	31.4	23
99	Circularly polarized modes in magnetized spin plasmas. <i>Journal of Plasma Physics</i> , 2010, 76, 857-864.	2.1	56
100	Rogue waves in the atmosphere. <i>Journal of Plasma Physics</i> , 2010, 76, 293-295.	2.1	256
101	Interaction between gravitational waves and plasma waves in the Vlasov description. <i>Journal of Plasma Physics</i> , 2010, 76, 345-353.	2.1	8
102	From extended phase space dynamics to fluid theory. <i>Physics of Plasmas</i> , 2010, 17, 102109.	1.9	35
103	Generation of wakefields by whistlers in spin quantum magnetoplasmas. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	32
104	Scalar quantum kinetic theory for spin-1/2 particles: mean field theory. <i>New Journal of Physics</i> , 2010, 12, 043019.	2.9	96
105	Model of the electrochemical conversion of an undoped organic semiconductor film to a doped conductor film. <i>Physical Review B</i> , 2010, 81, .	3.2	11
106	Spin Contribution to the Ponderomotive Force in a Plasma. <i>Physical Review Letters</i> , 2010, 105, 105004.	7.8	78
107	Spin-induced nonlinearities in the electron magnetohydrodynamic regime. <i>New Journal of Physics</i> , 2010, 12, 013006.	2.9	13
108	Effects of the electron spin on the nonlinear generation of quasi-static magnetic fields in a plasma. <i>Journal of Plasma Physics</i> , 2010, 76, 865-873.	2.1	1

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109	Fluid moment hierarchy equations derived from gauge invariant quantum kinetic theory. <i>New Journal of Physics</i> , 2010, 12, 073027.	2.9	30
110	Nonlinear quantum electrodynamics in vacuum and plasmas. , 2010, , .		0
111	Laser intensity effects in noncommutative QED. <i>Physical Review D</i> , 2010, 81, .	4.7	9
112	A phonon laser in ultra-cold matter. <i>Europhysics Letters</i> , 2010, 91, 33001.	2.0	20
113	Localized whistlers in magnetized spin quantum plasmas. <i>Physical Review E</i> , 2010, 82, 056406.	2.1	40
114	Magnetohydrodynamic instability in plasmas with intrinsic magnetization. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	13
115	Spin Kinetic Theoryâ€”Quantum Kinetic Theory in Extended Phase Space. <i>Transport Theory and Statistical Physics</i> , 2010, 39, 502-523.	0.4	10
116	Growth rate and the cutoff wavelength of the Darrieus-Landau instability in laser ablation. <i>Physical Review E</i> , 2009, 80, 046403.	2.1	21
117	The Rayleighâ€”Taylor instability in quantum magnetized plasma with para- and ferromagnetic properties. <i>Physics of Plasmas</i> , 2009, 16, 032106.	1.9	28
118	Dynamics of a dusty plasma with intrinsic magnetization. <i>New Journal of Physics</i> , 2009, 11, 073017.	2.9	21
119	Spin Kinetic Models of Plasmasâ€”Semiclassical and Quantum Mechanical Theory. , 2009, , .		0
120	High Intensity Physics. , 2009, , .		0
121	Excitation of multiple wakefields by short laser pulses in quantum plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3165-3168.	2.1	15
122	Quantum vacuum experiments using high intensity lasers. <i>European Physical Journal D</i> , 2009, 55, 319-326.	1.3	99
123	Nonlinear electromagnetic wave equations for superdense magnetized plasmas. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	15
124	Evolution of rogue waves in interacting wave systems. <i>Europhysics Letters</i> , 2009, 86, 24001.	2.0	20
125	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
126	The Rayleighâ€”Taylor instability and internal waves in quantum plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3042-3045.	2.1	34

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127	Heating of the fuel mixture due to viscous stress ahead of accelerating flames in deflagration-to-detonation transition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4850-4857.	2.1	34
128	Photon gas dynamics in the early universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 54-57.	4.1	0
129	Wake field generation and nonlinear evolution in a magnetized electron-positron-ion plasma. Physics of Plasmas, 2008, 15, 082305.	1.9	27
130	Quantum Plasma Effects in the Classical Regime. Physical Review Letters, 2008, 100, 175001.	7.8	188
131	The structure of weak shocks in quantum plasmas. Physics of Plasmas, 2008, 15, 032309.	1.9	14
132	New quantum limits in plasmonic devices. Europhysics Letters, 2008, 84, 17006.	2.0	138
133	Superluminal tunneling of microwaves in smoothly varying transmission lines. Physical Review E, 2008, 78, 016601.	2.1	17
134	Dusty spin plasmas. AIP Conference Proceedings, 2008, , .	0.4	2
135	The Darrieus- Landau instability in fast deflagration and laser ablation. Physics of Plasmas, 2008, 15, 032702.	1.9	13
136	On the possibility of metamaterial properties in spin plasmas. New Journal of Physics, 2008, 10, 115031.	2.9	13
137	Laboratory soft x-ray emission due to the Hawking- Unruh effect?. Classical and Quantum Gravity, 2008, 25, 145005.	4.0	14
138	Modified Jeans instability criteria for magnetized systems. Physics of Plasmas, 2008, 15, .	1.9	55
139	Effects of the $\langle g \rangle$ Factor in Semiclassical Kinetic Plasma Theory. Physical Review Letters, 2008, 101, 245002.	7.8	121
140	Three-dimensional instability of two nonlinearly coupled electromagnetic waves in a plasma. Journal of Plasma Physics, 2008, 74, 371-379.	2.1	2
141	Magnetosonic solitons in a dusty plasma slab. Journal of Plasma Physics, 2008, 74, 601-605.	2.1	1
142	QUANTUM, SPIN AND QED EFFECTS IN PLASMAS. , 2008, , .		1
143	SPIN QUANTUM PLASMAS - NEW ASPECTS OF COLLECTIVE DYNAMICS. , 2008, , .		0
144	Quantum-Electrodynamical Photon Splitting in Magnetized Nonlinear Pair Plasmas. Physical Review Letters, 2007, 98, 125001.	7.8	57

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145	Circularly polarized waves in a plasma with vacuum polarization effects. <i>Physics of Plasmas</i> , 2007, 14, 064503.	1.9	14
146	Reply to "Comment on "Primordial magnetic seed field amplification by gravitational waves" Physical Review D, 2007, 75, .	4.7	3
147	Spin solitons in magnetized pair plasmas. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	115
148	Short wavelength electromagnetic propagation in magnetized quantum plasmas. <i>Physics of Plasmas</i> , 2007, 14, 062112.	1.9	42
149	Magnetosonic solitons in a fermionic quantum plasma. <i>Physical Review E</i> , 2007, 76, 067401.	2.1	132
150	Spin magnetohydrodynamics. <i>New Journal of Physics</i> , 2007, 9, 277-277.	2.9	261
151	Dynamics of Spin-1/2 Quantum Plasmas. <i>Physical Review Letters</i> , 2007, 98, 025001.	7.8	416
152	Ferromagnetic behavior in magnetized plasmas. <i>Physical Review E</i> , 2007, 76, 055403.	2.1	61
153	Anomalous reflection and excitation of surface waves in metamaterials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 367, 233-236.	2.1	13
154	Modulational instability of nonlinearly interacting incoherent sea states. <i>JETP Letters</i> , 2007, 84, 645-649.	1.4	14
155	Instability and dynamics of two nonlinearly coupled laser beams in a plasma. <i>Physics of Plasmas</i> , 2006, 13, 053104.	1.9	18
156	Kinetic theory for radiation interacting with sound waves in ultrarelativistic pair plasmas. <i>Physics of Plasmas</i> , 2006, 13, 104505.	1.9	3
157	Ultrashort solitons and kinetic effects in nonlinear metamaterials. <i>Physical Review E</i> , 2006, 73, 037601.	2.1	58
158	Nonlinear collective effects in photon-photon and photon-plasma interactions. <i>Reviews of Modern Physics</i> , 2006, 78, 591-640.	45.6	923
159	Short wavelength quantum electrodynamic correction to cold plasma-wave propagation. <i>Physics of Plasmas</i> , 2006, 13, 102102.	1.9	15
160	Dispersion relation for electromagnetic wave propagation in a strongly magnetized plasma. <i>New Journal of Physics</i> , 2006, 8, 16-16.	2.9	17
161	Nonlinear wave interactions in quantum magnetoplasmas. <i>Physics of Plasmas</i> , 2006, 13, 112111.	1.9	88
162	Inhomogeneous magnetic seed fields and gravitational waves within the magnetohydrodynamic limit. <i>Physical Review D</i> , 2006, 73, .	4.7	12

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163	Nonlinear interactions between gravitational radiation and modified Alfvén modes in astrophysical dusty plasmas. <i>Physical Review D</i> , 2006, 74, .	4.7	8
164	Modulational instability of partially coherent signals in electrical transmission lines. <i>Physical Review E</i> , 2006, 73, 057601.	2.1	15
165	Graviton mediated photon-photon scattering in general relativity. <i>Physical Review D</i> , 2006, 74, .	4.7	6
166	Filamentational instability of partially coherent femtosecond optical pulses in air. <i>Optics Letters</i> , 2006, 31, 1884.	3.3	3
167	Photon-graviton pair conversion. <i>Classical and Quantum Gravity</i> , 2006, 23, L7-L13.	4.0	4
168	Scalar perturbations in two-temperature cosmological plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 1813-1821.	4.4	2
169	Electrostatic pair creation and recombination in quantum plasmas. <i>JETP Letters</i> , 2006, 83, 313-317.	1.4	4
170	Dynamics of broadband dispersive Alfvén waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 353, 500-504.	2.1	3
171	Photon acceleration in vacuum. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 359, 700-704.	2.1	23
172	Large-amplitude electron oscillations in a plasma slab. <i>Journal of Plasma Physics</i> , 2006, 72, 429.	2.1	15
173	Instability of nonlinearly coupled incoherent electromagnetic ion-cyclotron-Alfvén waves and ion-acoustic perturbations. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, 939-943.	2.1	1
174	Nonlinear propagation of partially coherent dispersive Alfvén waves. <i>Physica Scripta</i> , 2006, 74, 373-376.	2.5	8
175	Modulational instability of spatially broadband nonlinear optical pulses in four-state atomic systems. <i>Physical Review E</i> , 2006, 74, 067603.	2.1	7
176	Using High-Power Lasers for Detection of Elastic Photon-Photon Scattering. <i>Physical Review Letters</i> , 2006, 96, 083602.	7.8	155
177	New low-frequency oscillations in quantum dusty plasmas. <i>Europhysics Letters</i> , 2006, 74, 844-846.	2.0	110
178	Kinetic theory of electromagnetic ion waves in relativistic plasmas. <i>Physics of Plasmas</i> , 2006, 13, 094503.	1.9	6
179	Nonlinear propagation of broadband intense electromagnetic waves in an electron-positron plasma. <i>Physics of Plasmas</i> , 2006, 13, 083102.	1.9	9
180	Statistical properties of the continuum Salerno model. <i>Physical Review A</i> , 2006, 74, .	2.5	4

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181	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
182	Instability and Evolution of Nonlinearly Interacting Water Waves. <i>Physical Review Letters</i> , 2006, 97, 094501.	7.8	144
183	Cherenkov radiation in a photon gas. <i>New Journal of Physics</i> , 2005, 7, 70-70.	2.9	8
184	New low-frequency nonlinear electromagnetic wave in a magnetized plasma. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, L25-L29.	2.1	30
185	Wave-kinetic description of nonlinear photons. <i>Journal of Plasma Physics</i> , 2005, 71, 527-533.	2.1	1
186	Relativistic self-compression approaching the Schwinger limit. <i>Journal of Plasma Physics</i> , 2005, 71, 213-215.	2.1	4
187	Solitons and decoherence in left-handed metamaterials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 341, 231-234.	2.1	30
188	Modulational instability criteria for two-component Bose-Einstein condensates. <i>European Physical Journal B</i> , 2005, 46, 381-384.	1.5	31
189	Random phases in Bose-Einstein condensates with higher order nonlinearities. <i>European Physical Journal B</i> , 2005, 48, 71-73.	1.5	4
190	A new electromagnetic wave in a pair plasma. <i>Journal of Plasma Physics</i> , 2005, 71, 709.	2.1	9
191	The general relativistic magnetohydrodynamic dynamo equation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 358, 892-900.	4.4	24
192	Generation of gravitational radiation in dusty plasmas and supernovae. <i>JETP Letters</i> , 2005, 81, 135-139.	1.4	9
193	Classical and quantum kinetics of the Zakharov system. <i>Physics of Plasmas</i> , 2005, 12, 082110.	1.9	96
194	Incoherent interaction of light with electron-acoustic waves. <i>Physics of Plasmas</i> , 2005, 12, 124504.	1.9	0
195	The intense radiation gas. <i>Europhysics Letters</i> , 2005, 70, 327-333.	2.0	7
196	Primordial magnetic seed field amplification by gravitational waves. <i>Physical Review D</i> , 2005, 72, .	4.7	12
197	Statistical description of short pulses in long optical fibers: effects of nonlocality. <i>Optics Letters</i> , 2005, 30, 2548.	3.3	2
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