

Vladimir V Kocharovsky

List of Publications by Year in descending order

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168
papers

1,634
citations

394421

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h-index

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168
all docs

168
docs citations

168
times ranked

1029
citing authors

#	ARTICLE	IF	CITATIONS
1	The Neutron Component in Fireballs of Gamma-Ray Bursts: Dynamics and Observable Imprints. <i>Astrophysical Journal</i> , 1999, 521, 640-649.	4.5	136
2	Enhancing Acceleration Radiation from Ground-State Atoms via Cavity Quantum Electrodynamics. <i>Physical Review Letters</i> , 2003, 91, 243004.	7.8	101
3	Constraints on the extremely high-energy cosmic ray accelerators from classical electrodynamics. <i>Physical Review D</i> , 2002, 66, .	4.7	100
4	Physical parameters and emission mechanism in gamma-ray bursts. <i>Astronomy and Astrophysics</i> , 2001, 372, 1071-1077.	5.1	88
5	Infrared generation in low-dimensional semiconductor heterostructures via quantum coherence. <i>Physical Review A</i> , 2001, 63, .	2.5	78
6	Particle acceleration through multiple conversions from a charged into a neutral state and back. <i>Physical Review D</i> , 2003, 68, .	4.7	76
7	Condensate Statistics in Interacting and Ideal Dilute Bose Gases. <i>Physical Review Letters</i> , 2000, 84, 2306-2309.	7.8	74
8	Fluctuations in Ideal and Interacting Bose-Einstein Condensates: From the Laser Phase Transition Analogy to Squeezed States and Bogoliubov Quasiparticles. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2006, , 291-411.	2.3	74
9	Condensation of N bosons. III. Analytical results for all higher moments of condensate fluctuations in interacting and ideal dilute Bose gases via the canonical ensemble quasiparticle formulation. <i>Physical Review A</i> , 2000, 61, .	2.5	58
10	Cooperative Recombination of a Quantized High-Density Electron-Hole Plasma in Semiconductor Quantum Wells. <i>Physical Review Letters</i> , 2006, 96, 237401.	7.8	49
11	Collective QED processes of electron - hole recombination and electron - positron annihilation in a strong magnetic field. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1997, 9, 1-44.	0.9	36
12	Superradiance: the principles of generation and implementation in lasers. <i>Physics-Uspekhi</i> , 2017, 60, 345-384.	2.2	35
13	Superradiant generation of femtosecond pulses in quantum-well heterostructures. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1998, 10, L13-L19.	0.9	27
14	Analytical theory of mesoscopic Bose-Einstein condensation in an ideal gas. <i>Physical Review A</i> , 2010, 81, .	2.5	27
15	Cooperative recombination of electron-hole pairs in semiconductor quantum wells under quantizing magnetic fields. <i>Physical Review B</i> , 2010, 81, .	3.2	25
16	Self-Consistent Current Sheets and Filaments in Relativistic Collisionless Plasma with Arbitrary Energy Distribution of Particles. <i>Physical Review Letters</i> , 2010, 104, 215002.	7.8	25
17	Three-terminal semiconductor laser for wave mixing. <i>Physical Review A</i> , 2002, 65, .	2.5	23
18	Analytical theory of self-consistent current structures in a collisionless plasma. <i>Physics-Uspekhi</i> , 2016, 59, 1165-1210.	2.2	23

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19	Master equation vs. partition function: canonical statistics of ideal Bose-Einstein condensates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 300, 433-467.	2.6	22
20	Universal scaling in the statistics and thermodynamics of a Bose-Einstein condensation of an ideal gas in an arbitrary trap. <i>Physical Review A</i> , 2014, 90, .	2.5	19
21	Room-temperature intracavity difference-frequency generation in butt-joint diode lasers. <i>Applied Physics Letters</i> , 2008, 92, 021122.	3.3	18
22	Nonlinear mode mixing in dual-wavelength semiconductor lasers with tunnel junctions. <i>Applied Physics Letters</i> , 2007, 90, 171106.	3.3	16
23	Gamma-ray bursts from the final stage of primordial black hole evaporation. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 283, 626-634.	4.4	13
24	Mode instability and nonlinear superradiance phenomena in open Fabry-Perot cavity. <i>Computers and Mathematics With Applications</i> , 1997, 34, 773-793.	2.7	13
25	Nonlinear nonequilibrium processes in a silicon switch of high-power microwave radiation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009, 73, 91-95.	0.6	13
26	Microscopic theory of phase transitions in a critical region. <i>Physica Scripta</i> , 2015, 90, 108002.	2.5	13
27	Superradiance phenomenon in semiconductor magneto-optics. <i>Solid State Communications</i> , 1991, 80, 243-246.	1.9	12
28	Non-linear wave mixing in GaAs/InGaAs/InGaP butt-joint diode lasers. <i>Journal of Modern Optics</i> , 2005, 52, 2323-2330.	1.3	12
29	Reversal of Radiation Reaction Force and Instability of the Ground State of an Atom Located above the Surface of an Active Medium. <i>Physical Review Letters</i> , 1996, 76, 3285-3288.	7.8	11
30	Off-Axis Emission from Relativistic Plasma Flows. <i>Astrophysical Journal</i> , 2007, 655, 980-988.	4.5	11
31	On fully quantum kinetic equations for BEC, new theorem on nonpolynomial averages, and new special numbers enumerating one-cycle oriented graphs. <i>Laser Physics</i> , 2007, 17, 700-707.	1.2	11
32	Saturation of relativistic Weibel instability and the formation of stationary current sheets in collisionless plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2008, 107, 1049-1060.	0.9	11
33	Superradiant Lasing and Collective Dynamics of Active Centers with Polarization Lifetime Exceeding Photon Lifetime. <i>Springer Series in Optical Sciences</i> , 2015, , 49-69.	0.7	11
34	Grand Canonical Versus Canonical Ensemble: Universal Structure of Statistics and Thermodynamics in a Critical Region of Bose-Einstein Condensation of an Ideal Gas in Arbitrary Trap. <i>Journal of Statistical Physics</i> , 2015, 161, 942-964.	1.2	11
35	Microscopic theory of a phase transition in a critical region: Bose-Einstein condensation in an interacting gas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 466-470.	2.1	11
36	Superradiance statistics for three-dimensional samples. <i>Optics Communications</i> , 1985, 53, 345-348.	2.1	9

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37	Beyond Gibbs' method in statistical physics: theorem on non-polynomial averages and non-perturbation in fluctuations theory of Bose-Einstein condensation. Journal of Modern Optics, 2007, 54, 2491-2498.	1.3	9
38	Modeling of Dynamic Effects in a Laser-Driven Semiconductor Switch of High-Power Microwaves. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 31.	2.2	9
39	Weibel Mechanism of Magnetic-Field Generation in the Process of Expansion of a Collisionless-Plasma Bunch with Hot Electrons. Radiophysics and Quantum Electronics, 2020, 62, 830-848.	0.5	9
40	Self-similar analytical solution of the critical fluctuations problem for the Bose-Einstein condensation in an ideal gas. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 225001.	2.1	8
41	Dynamics of a Self-Consistent Magnetic Field and Diffusive Scattering of Ions in a Plasma with Strong Thermal Anisotropy. Radiophysics and Quantum Electronics, 2017, 59, 991-999.	0.5	8
42	Anomalous Statistics of Bose-Einstein Condensate in an Interacting Gas: An Effect of the Trap's Form and Boundary Conditions in the Thermodynamic Limit. Entropy, 2018, 20, 153.	2.2	8
43	Resonant parametric generation of infrared radiation on intersubband transitions in low-dimensional semiconductor heterostructures. Nanotechnology, 2001, 12, 450-452.	2.6	7
44	Coherent Radiation from Neutral Molecules Moving above a Grating. Physical Review Letters, 2002, 88, 053602.	7.8	7
45	Mid/far-infrared few-cycle-pulse emission via resonant mixing in semiconductor heterostructures. Journal of Modern Optics, 2004, 51, 2523-2531.	1.3	7
46	Title is missing!. Physics-Uspexhi, 2007, 50, 308.	2.2	7
47	Universal fine structure of the specific heat at the critical point for an ideal Bose gas in an arbitrary trap. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 415003.	2.1	7
48	Towards an exact solution for the three-dimensional Ising model: A method of the recurrence equations for partial contractions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2520-2523.	2.1	7
49	Empirical mode with a variable spatial-temporal structure and the dynamics of superradiant lasers. Journal of Physics: Conference Series, 2016, 740, 012007.	0.4	7
50	Features of the generation of a collisionless electrostatic shock wave in a laser-ablation plasma. JETP Letters, 2017, 105, 164-168.	1.4	7
51	Bose-Einstein-condensate fluctuations versus an interparticle interaction. Physical Review A, 2020, 102, .	2.5	7
52	Unification of the Nature's Complexities via a Matrix Permanent Critical Phenomena, Fractals, Quantum Computing, P-Complexity. Entropy, 2020, 22, 322.	2.2	7
53	Spontaneous Polarization of a Gas of Two-Level Molecules and the Gibbs Quasi-Energy Distribution. Radiophysics and Quantum Electronics, 2001, 44, 161-175.	0.5	6
54	The Mode Competition, Instability, and Second Harmonic Generation in Dual-Frequency InGaAs-InGaP Lasers. Semiconductors, 2005, 39, 156.	0.5	6

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55	Influence of relativistic effects and vacuum polarization on the transfer of gyroresonance radiation and the stability of the atmospheres of compact stars. <i>Astronomy Letters</i> , 2008, 34, 305-315.	1.0	6
56	High-Q-polariton modes in heterostructures with traps for dipolar excitons. <i>Quantum Electronics</i> , 2009, 39, 1086-1094.	1.0	6
57	Infrared neoclassical superradiance in a system of molecules with quasidequidistant spectrum of vibrational levels. <i>Infrared Physics and Technology</i> , 1995, 36, 1003-1006.	2.9	5
58	Experimental study of nonlinear mode mixing in dual-wavelength semiconductor lasers. <i>Laser Physics</i> , 2007, 17, 684-687.	1.2	5
59	Fast quasi-optical phase shifter based on the effect of induced photo conductivity in silicon. <i>Radiophysics and Quantum Electronics</i> , 2007, 50, 786-793.	0.5	5
60	Self-consistent current structures in a relativistic collisionless plasma. <i>Radiophysics and Quantum Electronics</i> , 2009, 52, 79-87.	0.5	5
61	Polariton-mode lasing and Bose condensate of dipolar excitons in heterostructures. <i>Laser Physics</i> , 2010, 20, 2011-2014.	1.2	5
62	Regimes of Generation in Low-Q Distributed-Feedback Lasers with Strong Inhomogeneous Broadening of the Active Medium. <i>Radiophysics and Quantum Electronics</i> , 2016, 59, 484-500.	0.5	5
63	Spectral-Dynamical Peculiarities of Polarization of the Active Medium and Space-Time Empirical Modes of a Laser with a Low-Q Cavity. <i>Radiophysics and Quantum Electronics</i> , 2019, 61, 806-833.	0.5	5
64	On the Asymmetric Generation of a Superradiant Laser with a Symmetric Low-Q Cavity. <i>Semiconductors</i> , 2019, 53, 1287-1294.	0.5	5
65	Formation of a Density Bump in a Collisionless Electrostatic Shock Wave During Expansion of a Hot Dense Plasma into a Cold Rarefied One. <i>Plasma Physics Reports</i> , 2020, 46, 765-783.	0.9	5
66	Exact Recursive Calculation of Circulant Permanents: A Band of Different Diagonals inside a Uniform Matrix. <i>Entropy</i> , 2021, 23, 1423.	2.2	5
67	Origin of Bragg-Coulomb high-Tc superconductivity Green's function and diagram method for umklapp $e\tilde{e}$ -scattering. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 200, 385-402.	1.2	4
68	A neutron star collapse induced by a primordial black hole as the source of cosmological $\hat{\nu}$ -ray bursts. <i>Radiophysics and Quantum Electronics</i> , 1998, 41, 7-15.	0.5	4
69	Cosmological $\hat{\nu}$ -ray bursts from a neutron star collapse induced by a primordial black hole. <i>JETP Letters</i> , 1999, 70, 652-658.	1.4	4
70	Superfluorescence from dense electron-hole plasmas under high magnetic fields. <i>Journal of Modern Optics</i> , 2006, 53, 2325-2335.	1.3	4
71	A multifrequency interband two-cascade laser. <i>Semiconductors</i> , 2007, 41, 1209-1213.	0.5	4
72	Magnetostatic structures in collisionless plasma and their synchrotron radiation. <i>Astronomy Letters</i> , 2010, 36, 396-415.	1.0	4

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73	Spectral redistribution of gyroresonant photons in magnetized atmospheres of isolated compact stars. <i>Astronomy and Astrophysics</i> , 2011, 531, L14.	5.1	4
74	Conditions and features of the lasing in traps for the bose condensation of dipolar excitons. <i>Radiophysics and Quantum Electronics</i> , 2011, 54, 316-333.	0.5	4
75	Bose-Einstein condensation in mesoscopic systems: The self-similar structure of the critical region and the nonequivalence of the canonical and grand canonical ensembles. <i>JETP Letters</i> , 2016, 103, 62-75.	1.4	4
76	An Analytical Model for the Current Structure of the Magnetosheath Boundary in a Collisionless Plasma. <i>Astronomy Letters</i> , 2019, 45, 551-564.	1.0	4
77	Parametric effect in a superradiant laser with self-mode-locking. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2020, 203, 483-500.	0.9	4
78	The Hafnian Master Theorem. <i>Linear Algebra and Its Applications</i> , 2022, 651, 144-161.	0.9	4
79	Pulsed generation of strong quasihomogeneous fields in an open sample of conducting inverted medium under the condition of plasma-dipole resonance. <i>Journal of Optics</i> , 1994, 3, 29-36.	0.5	3
80	Gamma-ray bursts from evaporating primordial black holes. <i>Radiophysics and Quantum Electronics</i> , 1998, 41, 22-27.	0.5	3
81	TeV photons from gamma-ray bursts. <i>Advances in Space Research</i> , 2001, 27, 813-818.	2.6	3
82	Features of Superradiance in a Cyclotron Quantum-Dot Heterolaser Under Continuous Pumping. <i>Radiophysics and Quantum Electronics</i> , 2001, 44, 184-195.	0.5	3
83	Microwave polarization diagnostics of solar current sheets with transverse component of magnetic field. <i>Advances in Space Research</i> , 2002, 29, 1107-1112.	2.6	3
84	Magnetic field generation in shock waves and jets. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	3
85	A NEW MECHANISM FOR PARTICLE ACCELERATION IN RELATIVISTIC JETS. <i>International Journal of Modern Physics D</i> , 2008, 17, 1839-1847.	2.1	3
86	On the problem of lasing in traps for the bose condensation of dipolar excitons. <i>Semiconductors</i> , 2012, 46, 1351-1357.	0.5	3
87	Lasing threshold in traps for Bose-condensation of dipolar excitons. <i>Solid State Communications</i> , 2012, 152, 1008-1011.	1.9	3
88	On the permanents of circulant and degenerate Schur matrices. <i>Linear Algebra and Its Applications</i> , 2017, 519, 366-381.	0.9	3
89	Generation of magnetic fields behind the front of an electrostatic shock wave in a laser plasma. , 2018, , .		3
90	Crossover of Quasiparticles and Statistics of Bose-Einstein Condensate with Increasing Interaction: from an Ideal Gas to a Thomas-Fermi Regime. The Case of a One-Dimensional Flat Trap. <i>Radiophysics and Quantum Electronics</i> , 2019, 62, 293-310.	0.5	3

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91	Eigenmodes of a lamellar optical grating: Profile, propagation, reflection, transmission, and nonadiabatic mode coupling. <i>Physical Review A</i> , 2019, 100, .	2.5	3
92	Investigation of the instabilities of an expanding plasma created during ablation of solid targets by intense femtosecond laser pulses. , 2020, , .		3
93	Bragg-Coulomb mechanism for high-Tc superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 173, 425-443.	1.2	2
94	Meissner effect in superconducting cores of neutron stars. <i>Radiophysics and Quantum Electronics</i> , 1996, 39, 18-22.	0.5	2
95	Self-consistent infrared and ultraviolet asymptotically free unitary renormalizable theory of quantum gravity and matter fields. <i>Foundations of Physics</i> , 1996, 26, 243-256.	1.3	2
96	Nonstationary dressed states and effects of decay in nonadiabatic crossing of decaying levels. <i>Computers and Mathematics With Applications</i> , 1997, 34, 727-750.	2.7	2
97	<title>Two-color heterolasers as parametric generators of infrared radiation</title>. , 2001, , .		2
98	Title is missing!. <i>Radiophysics and Quantum Electronics</i> , 2001, 44, 443-449.	0.5	2
99	Formation of Annihilation-Cyclotron Lines in Strong Magnetic Fields Near Neutron Stars. <i>Radiophysics and Quantum Electronics</i> , 2001, 44, 16-24.	0.5	2
100	One- and two-colour superradiant lasing in magnetized quantum-well heterostructures. <i>Nanotechnology</i> , 2001, 12, 581-584.	2.6	2
101	The Converter Mechanism of Particle Acceleration and Its Applications to the Unidentified Egret Sources. <i>Astrophysics and Space Science</i> , 2005, 297, 21-30.	1.4	2
102	Fast quasi-optical phase shifter based on induced photoconductivity in silicon. , 2007, , .		2
103	Difference-frequency pulse generation in quantum well heterolasers. <i>Laser Physics</i> , 2007, 17, 688-694.	1.2	2
104	Modeling of dynamic effects in a laser-driven semiconductor switch of high-power microwaves. , 2008, , .		2
105	Origin and universal structure of non-Gaussian statistics of Boseâ€ Einstein condensate in a mesoscopic perfect gas. <i>Radiophysics and Quantum Electronics</i> , 2009, 52, 422-434.	0.5	2
106	Mode interaction and dynamics features of class d lasers. <i>Radiophysics and Quantum Electronics</i> , 2011, 54, 264-273.	0.5	2
107	Modeling of spectral features in the dynamic spectra of neutron stars. <i>Radiophysics and Quantum Electronics</i> , 2011, 54, 304-315.	0.5	2
108	The breaks and the hidden components in the power-law spectra of synchrotron radiation of the self-consistent current structures. <i>Physics of Plasmas</i> , 2015, 22, 083303.	1.9	2

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109	Analytical theory of neutral current sheets with a sheared magnetic field in collisionless relativistic plasma. <i>Journal of Physics: Conference Series</i> , 2017, 932, 012019.	0.4	2
110	Features of the Simultaneous Generation of Low-Q and High-Q Modes in Heterolasers Based on Quantum Dots with a Long Incoherent Relaxation Time of Optical Dipole Oscillations. <i>Semiconductors</i> , 2019, 53, 1295-1303.	0.5	2
111	<title>Quasi-periodic superradiant regime of femtosecond pulse generation in quantum-well and quantum-dot semiconductor lasers</title>. , 1997, , .		1
112	<title>Parallel coherent amplification and multichannel pulse processing in inhomogeneously broadened fibers</title>. , 1997, , .		1
113	Cooperative coherent phenomena in annihilating electron-positron and electron-hole plasmas in a strong magnetic field. <i>Computers and Mathematics With Applications</i> , 1997, 34, 845-880.	2.7	1
114	Gamma-ray spectral features of neutron stars originating from photon splitting in a strong magnetic field. <i>Radiophysics and Quantum Electronics</i> , 1997, 40, 93-102.	0.5	1
115	Absolute and convective superradiance: Dynamics and macroscopic quantum fluctuations. <i>Computers and Mathematics With Applications</i> , 1997, 34, 751-771.	2.7	1
116	Gamma-ray bursts from the final stage of primordial black hole evaporations. <i>Advances in Space Research</i> , 1998, 22, 1111-1114.	2.6	1
117	<title>Optical superradiance and pulsed IR generation in quantum-well heterolasers under cw pumping</title>. , 2001, 4605, 356.		1
118	Nonlinear dynamics of gravity and matter creation in a cosmology with an unbounded Hamiltonian. <i>Physical Review E</i> , 2004, 70, 066210.	2.1	1
119	Photon absorption in a magnetized vacuum and formation of cyclotron-annihilation lines in $\hat{\Gamma}^3$ -emission of neutron stars. <i>Advances in Space Research</i> , 2004, 33, 620-624.	2.6	1
120	High-energy emission from off-axis relativistic jets. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
121	<title>Terahertz sources based on the intracavity wave mixing of self-generated fields in semiconductor lasers</title>. , 2006, , .		1
122	<title>Optical mixing in GaAs/InGaAs/InGaP butt-joint diode lasers: new scheme for the sum- and difference-frequency generation</title>. , 2006, , .		1
123	<title>Intracavity nonlinear optics of semiconductor nanostructures and new mid/far-infrared laser schemes</title>. , 2006, , .		1
124	Terahertz generation via intracavity mixing in mode-locked dual-wavelength lasers. , 2007, , .		1
125	Modeling of dynamic effects in a laser-driven semiconductor switch of powerful microwave radiation. , 2008, , .		1
126	First experiments and prospects of intracavity difference-frequency generation of mid/far-infrared and terahertz radiation in diode lasers. , 2008, , .		1

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127	Statistics of the frequency redistribution for gyroresonance radiation in the atmospheres of compact stars. <i>Astronomy Letters</i> , 2011, 37, 699-706.	1.0	1
128	The influence of frequency redistribution on the transfer of gyroresonant photons in the atmospheres of compact stars: Monte-Carlo analysis. <i>Radiophysics and Quantum Electronics</i> , 2011, 53, 679-687.	0.5	1
129	Dynamics of inhomogeneous plasma expansion in intense femtosecond laser-ablated aluminum plumes. , 2016, , .		1
130	Cyclotron line formation in the magnetized atmospheres of compact stars – I. The transfer equations for polarized radiation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 1847-1857.	4.4	1
131	Mode-Locked Dual-Wavelength Heterolasers for Terahertz Generation via Intracavity Wave Mixing. <i>Acta Physica Polonica A</i> , 2008, 113, 869-873.	0.5	1
132	Explosive amplification of an electromagnetic field in a magnetized flow of accelerated-electron oscillators. <i>Physical Review E</i> , 1996, 53, 5338-5348.	2.1	0
133	Non-Adiabatic Crossing of Decaying Quasienergy States and Master Equation for Driven Quantum System with Non-Stationary Coupling to a Reservoir. , 1996, , .		0
134	<title>Gibbs distribution over quasi-energy levels and antiferroelectric phase in thermal gases</title>. , 1997, 3239, 233.		0
135	<title>Linear mode coupling and polarization statistics of coherent light in twisted single-mode fibers with random inhomogeneities</title>. , 1997, , .		0
136	Inhibited spontaneous emission and electromagnetic instability of an atom in the near zone from the surface of an active medium. <i>Computers and Mathematics With Applications</i> , 1997, 34, 795-805.	2.7	0
137	Effects of the spatial dispersion and instabilities in the wave electrodynamics of weakly ionized gases. <i>Computers and Mathematics With Applications</i> , 1997, 34, 807-844.	2.7	0
138	The Influence of Free Neutrons on Dynamics and Radiation of Astrophysical Plasmas. <i>Radiophysics and Quantum Electronics</i> , 2001, 44, 3-15.	0.5	0
139	Problems of superradiant lasing in magnetized quantum wells: two-color regime, inhomogeneous broadening, and VCSEL scheme. , 2001, 4243, 162.		0
140	TeV emission of Gamma-Ray Bursts as an instrument to test the universe at high redshifts. <i>Advances in Space Research</i> , 2003, 31, 483-487.	2.6	0
141	Lightcurves and spectral features of X-ray afterglows of gamma-ray bursts. <i>Advances in Space Research</i> , 2003, 32, 2039-2044.	2.6	0
142	New designs and recent experiments on intracavity nonlinear wave mixing in semiconductor lasers. , 2005, , .		0
143	Two-wavelength butt-joint diode lasers for the difference- and sum-frequency generation. , 0, , .		0
144	Generation of femtosecond mid/far-infrared pulses in quantum-well heterostructures under femtosecond laser pumping. , 0, , .		0

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145	Intracavity wave mixing of self-generated fields in semiconductor lasers for mid/far-infrared generation. , 0, , .		0
146	Optical-microwave mixing schemes revealing QED vacuum nonlinearity. , 0, , .		0
147	Modeling of surface-emitting grating-outcoupled lasers for mid/far-infrared difference-frequency generation. , 0, , .		0
148	<title>Novel dual-wavelength InGaAs/GaAs/InGaP lasers: second harmonics and competition of whispering-gallery and standard TE modes</title>. , 2006, , .		0
149	Particle acceleration via converter mechanism. Proceedings of the International Astronomical Union, 2006, 2, 93-93.	0.0	0
150	Interband Cascade Laser: Multi-Wavelength Generation and Mode Mixing. , 2007, , .		0
151	New Sources Ofcoherent Terahertz Radiation - Dual-Wavelength Heterolasers with Intracavity Mode Mixing. , 2007, , .		0
152	Observation of room-temperature intracavity difference-frequency generation in butt-joint diode lasers. , 2008, , .		0
153	Intracavity difference-frequency generation in GaAs/InGaAs/InGaP butt-joint diode lasers. , 2008, , .		0
154	Polariton mode lasing in a trap of Bose-condensate of indirect quantum-well excitons. Proceedings of SPIE, 2008, , .	0.8	0
155	Ponderomotive barrier for plasma particles on the boundary of astrophysical jets. Proceedings of the International Astronomical Union, 2010, 6, 239-242.	0.0	0
156	Polariton mode lasing in quantum-well traps for Bose-condensation of dipolar excitons. , 2010, , .		0
157	THz emission efficiency of Grating-Outcoupled nonlinear-mixing heterolasers. , 2010, , .		0
158	Superradiant heterolasers. , 2010, , .		0
159	Vladimir Vasil'evich Zheleznyakov (on his 80th birthday). Physics-Uspexhi, 2011, 54, 109-111.	2.2	0
160	PIC simulation and physical interpretation of the formation and evolution of an electrostatic shock in a collisionless plasma produced by a fs laser pulse. , 2016, , .		0
161	An approach of the space-time empirical modes to the nonlinear phenomena in lasers with low-q cavities. , 2017, , .		0
162	Superradiance as a Way to the Steady-State Multimode and Ultrashort Pulsed Lasing in CW Quantum-Dot Heterolasers. , 2019, , .		0

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163	Spontaneous Symmetry Breaking and Nonlinear Population Inversion Grating in a Low-Q CW Laser. , 2019, , .		0
164	Simultaneous generation of pulse trains with different periods in a class C quantum-dot heterolaser. , 2021, , .		0
165	Far-Infrared Few-Cycle-Pulse Generation in Quantum-Well Heterostructures under Femtosecond Laser Pumping. Acta Physica Polonica A, 2005, 107, 151-157.	0.5	0
166	Parametric Generation of Middle and Far Infrared Radiation in GaAs-Based Semiconductor Lasers and Waveguides. Acta Physica Polonica A, 2005, 107, 7-13.	0.5	0
167	Novel Steady-State Light-Matter Phase: Spontaneous Symmetry Breaking via Formation of an Asymmetric Nonlinear Self-Consistent Grating in a Low-Q CW Superradiant Laser with Symmetric Fabry-Perot Cavity. , 2021, , .		0
168	Double Resonance and Coherent Parametric Self-Mode-Locking in CW Superradiant Lasing. , 2021, , .		0