Vladimir V Kocharovsky

List of Publications by Year
in descending order

168	1,634	394421	345221
papers	citations	19 h-index	36 g-index

168	168	168	1029
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Hafnian Master Theorem. Linear Algebra and Its Applications, 2022, 651, 144-161.	0.9	4
2	Simultanious generation of pulse trains with different periods in a class C quantum-dot heterolaser. , 2021, , .		0
3	Exact Recursive Calculation of Circulant Permanents: A Band of Different Diagonals inside a Uniform Matrix. Entropy, 2021, 23, 1423.	2.2	5
4	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
5	Double Resonance and Coherent Parametric Self-Mode-Locking in CW Superradiant Lasing. , 2021, , .		0
6	Bose-Einstein-condensate fluctuations versus an interparticle interaction. Physical Review A, 2020, 102, .	2.5	7
7	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
8	Formation of a Density Bump in a Collisionless Electrostatic Shock Wave During Expansion of a Hot Dense Plasma into a Cold Rarefied One. Plasma Physics Reports, 2020, 46, 765-783.	0.9	5
9	Parametric effect in a superradiant laser with self-mode-locking. Theoretical and Mathematical Physics(Russian Federation), 2020, 203, 483-500.	0.9	4
10	Unification of the Natureâ€™s Complexities via a Matrix Permanentâ€”Critical Phenomena, Fractals, Quantum Computing, â™¯P-Complexity. Entropy, 2020, 22, 322.	2.2	7
11	Investigation of the instabilities of an expanding plasma created during ablation of solid targets by intense femtosecond laser pulses. , 2020, , .		3
12	Spectral-Dynamical Peculiarities of Polarization of the Active Medium and Space-Time Empirical Modes of a Laser with a Low-Q Cavity. Radiophysics and Quantum Electronics, 2019, 61, 806-833.	0.5	5
13	An Analytical Model for the Current Structure of the Magnetosheath Boundary in a Collisionless Plasma. Astronomy Letters, 2019, 45, 551-564.	1.0	4
14	Superradiance as a Way to the Steady-State Multimode and Ultrashort Pulsed Lasing in CW Quantum-Dot Heterolasers. , 2019, , .		0
15	On the Asymmetric Generation of a Superradiant Laser with a Symmetric Low-Q Cavity. Semiconductors, 2019, 53, 1287-1294.	0.5	5
16	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. Radiophysics and Quantum Electronics, 2019, 62, 293-310.	0.5	3
17	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. Semiconductors, 2019, 53, 1295-1303.	0.5	2
18	Spontaneous Symmetry Breaking and Nonlinear Population Inversion Grating in a Low-Q CW Laser. , 2019, , .		0

#	Article	IF	Citations
19	Eigenmodes of a lamellar optical grating: Profile, propagation, reflection, transmission, and nonadiabatic mode coupling. Physical Review A, 2019, 100, .	2.5	3
20	Anomalous Statistics of Bose-Einstein Condensate in an Interacting Gas: An Effect of the Trapâ€™s Form and Boundary Conditions in the Thermodynamic Limit. Entropy, 2018, 20, 153.	2.2	8
21	Generation of magnetic fields behind the front of an electrostatic shock wave in a laser plasma. , 2018, , .		3
22	On the permanents of circulant and degenerate Schur matrices. Linear Algebra and Its Applications, 2017, 519, 366-381.	0.9	3
23	Features of the generation of a collisionless electrostatic shock wave in a laser-ablation plasma. JETP Letters, 2017, 105, 164-168.	1.4	7
24	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
25	An approach of the space-time empirical modes to the nonlinear phenomena in lasers with low-q cavities. , 2017, , .		0
26	Analytical theory of neutral current sheets with a sheared magnetic field in collisionless relativistic plasma. Journal of Physics: Conference Series, 2017, 932, 012019.	0.4	2
27	Superradiance: the principles of generation and implementation in lasers. Physics-Uspekhi, 2017, 60, 345-384.	2.2	35
28	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
29	Dynamics of inhomogeneous plasma expansion in intense femtosecond laser-ablated aluminum plumes. , 2016, , .		1
30	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
31	Analytical theory of self-consistent current structures in a collisionless plasma. Physics-Uspekhi, 2016, 59, 1165-1210.	2.2	23
32	Regimes of Generation in Low-Q Distributed-Feedback Lasers with Strong Inhomogeneous Broadening of the Active Medium. Radiophysics and Quantum Electronics, 2016, 59, 484-500.	0.5	5
33	Boseâ€“Einstein condensation in mesoscopic systems: The self-similar structure of the critical region and the nonequivalence of the canonical and grand canonical ensembles. JETP Letters, 2016, 103, 62-75.	1.4	4
34	Cyclotron line formation in the magnetized atmospheres of compact stars â€“ I. The transfer equations for polarized radiation. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1847-1857.	4.4	1
35	Microscopic theory of phase transitions in a critical region. Physica Scripta, 2015, 90, 108002.	2.5	13
36	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

#	Article	IF	Citations
37	Superradiant Lasing and Collective Dynamics of Active Centers with Polarization Lifetime Exceeding Photon Lifetime. Springer Series in Optical Sciences, 2015, , 49-69.	0.7	11
38	Grand Canonical Versus Canonical Ensemble: Universal Structure of Statistics and Thermodynamics in a Critical Region of Boseâ€“Einstein Condensation of an Ideal Gas in Arbitrary Trap. Journal of Statistical Physics, 2015, 161, 942-964.	1.2	11
39	The breaks and the hidden components in the power-law spectra of synchrotron radiation of the self-consistent current structures. Physics of Plasmas, 2015, 22, 083303.	1.9	2
40	Microscopic theory of a phase transition in a critical region: Boseâ€“Einstein condensation in an interacting gas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 466-470.	2.1	11
41	Universal scaling in the statistics and thermodynamics of a Bose-Einstein condensation of an ideal gas in an arbitrary trap. Physical Review A, 2014, 90, .	2.5	19
42	Universal fine structure of the specific heat at the criticalÎ»-point for an ideal Bose gas in an arbitrary trap. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 415003.	2.1	7
43	On the problem of lasing in traps for the bose condensation of dipolar excitons. Semiconductors, 2012, 46, 1351-1357.	0.5	3
44	Lasing threshold in traps for Bose-condensation of dipolar excitons. Solid State Communications, 2012, 152, 1008-1011.	1.9	3
45	Spectral redistribution of gyroresonant photons in magnetized atmospheres of isolated compact stars. Astronomy and Astrophysics, 2011, 531, L14.	5.1	4
46	Statistics of the frequency redistribution for gyroresonance radiation in the atmospheres of compact stars. Astronomy Letters, 2011, 37, 699-706.	1.0	1
47	The influence of frequency redistribution on the transfer of gyroresonant photons in the atmospheres of compact stars: Monte-Carlo analysis. Radiophysics and Quantum Electronics, 2011, 53, 679-687.	0.5	1
48	Mode interaction and dynamics features of class d lasers. Radiophysics and Quantum Electronics, 2011, 54, 264-273.	0.5	2
49	Modeling of spectral features in the dynamic spectra of neutron stars. Radiophysics and Quantum Electronics, 2011, 54, 304-315.	0.5	2
50	Conditions and features of the lasing in traps for the bose condensation of dipolar excitons. Radiophysics and Quantum Electronics, 2011, 54, 316-333.	0.5	4
51	Vladimir Vasil'evich Zheleznyakov (on his 80th birthday). Physics-Uspekhi, 2011, 54, 109-111.	2.2	0
52	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
53	Ponderomotive barrier for plasma particles on the boundary of astrophysical jets. Proceedings of the International Astronomical Union, 2010, 6, 239-242.	0.0	0
54	Polariton-mode lasing and Bose condensate of dipolar excitons in heterostructures. Laser Physics, 2010, 20, 2011-2014.	1.2	5

#	Article	IF	Citations
55	Magnetostatic structures in collisionless plasma and their synchrotron radiation. Astronomy Letters, 2010, 36, 396-415.	1.0	4
56	Self-similar analytical solution of the critical fluctuations problem for the Boseâ€“Einstein condensation in an ideal gas. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 225001.	2.1	8
57	Polariton mode lasing in quantum-well traps for Bose-condensation of dipolar excitons. , 2010, , .		0
58	Analytical theory of mesoscopic Bose-Einstein condensation in an ideal gas. Physical Review A, 2010, 81, .	2.5	27
59	Cooperative recombination of electron-hole pairs in semiconductor quantum wells under quantizing magnetic fields. Physical Review B, 2010, 81, .	3.2	25
60	Self-Consistent Current Sheets and Filaments in Relativistic Collisionless Plasma with Arbitrary Energy Distribution of Particles. Physical Review Letters, 2010, 104, 215002.	7.8	25
61	THz emission efficiency of Grating-Outcoupled nonlinear-mixing heterolasers. , 2010, , .		0
62	Superradiant heterolasers. , 2010, , .		0
63	Self-consistent current structures in a relativistic collisionless plasma. Radiophysics and Quantum Electronics, 2009, 52, 79-87.	0.5	5
64	Origin and universal structure of non-Gaussian statistics of Boseâ€”Einstein condensate in a mesoscopic perfect gas. Radiophysics and Quantum Electronics, 2009, 52, 422-434.	0.5	2
65	Nonlinear nonequilibrium processes in a silicon switch of high-power microwave radiation. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 91-95.	0.6	13
66	High-Qpolariton modes in heterostructures with traps for dipolar excitons. Quantum Electronics, 2009, 39, 1086-1094.	1.0	6
67	A NEW MECHANISM FOR PARTICLE ACCELERATION IN RELATIVISTIC JETS. International Journal of Modern Physics D, 2008, 17, 1839-1847.	2.1	3
68	Influence of relativistic effects and vacuum polarization on the transfer of gyroresonance radiation and the stability of the atmospheres of compact stars. Astronomy Letters, 2008, 34, 305-315.	1.0	6
69	Saturation of relativistic Weibel instability and the formation of stationary current sheets in collisionless plasma. Journal of Experimental and Theoretical Physics, 2008, 107, 1049-1060.	0.9	11
70	Room-temperature intracavity difference-frequency generation in butt-joint diode lasers. Applied Physics Letters, 2008, 92, 021122.	3.3	18
71	Modeling of dynamic effects in a laser-driven semiconductor switch of powerful microwave radiation. , 2008, , .		1
72	First experiments and prospects of intracavity difference -frequency generation of mid/far-infrared and terahertz radiation in diode lasers. , 2008, , .		1

#	Article	IF	Citations
73	Observation of room-temperature intracavity difference-frequency generation in butt-joint diode lasers. , 2008, , .		0
74	Intracavity difference-frequency generation in GaAS/InGaAs/InGaP butt-joint diode lasers. , 2008, , .		0
75	Modeling of dynamic effects in a laser-driven semiconductor switch of high-power microwaves. , 2008, , .		2
76	Polariton mode lasing in a trap of Bose-condensate of indirect quantum-well excitons. Proceedings of SPIE, 2008, , .	0.8	0
77	Mode-Locked Dual-Wavelength Heterolasers for Terahertz Generation via Intracavity Wave Mixing. Acta Physica Polonica A, 2008, 113, 869-873.	0.5	1
78	Title is missing!. Physics-Uspekhi, 2007, 50, 308.	2.2	7
79	Fast quasi-optical phase shifter based on induced photoconductivity in silicon. , 2007, , .		2
80	Interband Cascade Laser: Multi-Wavelength Generation and Mode Mixing. , 2007, , .		0
81	Beyond Gibbs' method in statistical physics: theorem on non-polynomial averages and non-perturbation in fluctuations theory of Boseâ€“Einstein condensation. Journal of Modern Optics, 2007, 54, 2491-2498.	1.3	9
82	Nonlinear mode mixing in dual-wavelength semiconductor lasers with tunnel junctions. Applied Physics Letters, 2007, 90, 171106.	3.3	16
83	New Sources Ofcoherent Terahertz Radiation - Dual-Wavelength Heterolasers with Intracavity Mode Mixing. , 2007, , .		0
84	Offâ€Axis Emission from Relativistic Plasma Flows. Astrophysical Journal, 2007, 655, 980-988.	4.5	11
85	Terahertz generation via intracavity mixing in mode-locked dual-wavelength lasers. , 2007, , .		1
86	Experimental study of nonlinear mode mixing in dual-wavelength semiconductor lasers. Laser Physics, 2007, 17, 684-687.	1.2	5
87	Difference-frequency pulse generation in quantum well heterolasers. Laser Physics, 2007, 17, 688-694.	1.2	2
88	On fully quantum kinetic equations for BEC, new theorem on nonpolynomial averages, and new special numbers enumerating one-cycle oriented graphs. Laser Physics, 2007, 17, 700-707.	1.2	11
89	A multifrequency interband two-cascade laser. Semiconductors, 2007, 41, 1209-1213.	0.5	4
90	Fast quasi-optical phase shifter based on the effect of induced photo conductivity in silicon. Radiophysics and Quantum Electronics, 2007, 50, 786-793.	0.5	5

#	Article	IF	Citations
91	Cooperative Recombination of a Quantized High-Density Electron-Hole Plasma in Semiconductor Quantum Wells. Physical Review Letters, 2006, 96, 237401.	7.8	49
92	Superfluorescence from dense electronâ€“hole plasmas under high magnetic fields. Journal of Modern Optics, 2006, 53, 2325-2335.	1.3	4
93	Fluctuations in Ideal and Interacting Boseâ€“Einstein Condensates: From the Laser Phase Transition Analogy to Squeezed States and Bogoliubov Quasiparticles. Advances in Atomic, Molecular and Optical Physics, 2006, , 291-411.	2.3	74
94	<title>Novel dual-wavelength InGaAs/GaAs/InGaP lasers: second harmonics and competition of whispering-gallery and standard TE modes</title>. , 2006, , .		0
95	<title>Terahertz sources based on the intracavity wave mixing of self-generated fields in semiconductor lasers</title>. , 2006, , .		1
96	<title>Optical mixing in GaAs/InGaAs/InGaP butt-joint diode lasers: new scheme for the sum- and difference-frequency generation</title>. , 2006, , .		1
97	Particle acceleration via converter mechanism. Proceedings of the International Astronomical Union, 2006, 2, 93-93.	0.0	0
98	<title>Intracavity nonlinear optics of semiconductor nanostructures and new mid/far-infrared laser schemes</title>. , 2006, , .		1
99	New designs and recent experiments on intracavity nonlinear wave mixing in semiconductor lasers. , 2005, , .		0
100	The Mode Competition, Instability, and Second Harmonic Generation in Dual-Frequency InGaAsâ•GaAsâ•InGaP Lasers. Semiconductors, 2005, 39, 156.	0.5	6
101	The Converter Mechanism of Particle Acceleration and Its Applications to the Unidentified Egret Sources. Astrophysics and Space Science, 2005, 297, 21-30.	1.4	2
102	High-energy emission from off-axis relativistic jets. AIP Conference Proceedings, 2005, , .	0.4	1
103	Magnetic field generation in shock waves and jets. AIP Conference Proceedings, 2005, , .	0.4	3
104	Non-linear wave mixing in GaAs/InGaAs/InGaP butt-joint diode lasers. Journal of Modern Optics, 2005, 52, 2323-2330.	1.3	12
105	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
106	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
107	Nonlinear dynamics of gravity and matter creation in a cosmology with an unbounded Hamiltonian. Physical Review E, 2004, 70, 066210.	2.1	1
108	Photon absorption in a magnetized vacuum and formation of cyclotron-annihilation lines in Î³-emission of neutron stars. Advances in Space Research, 2004, 33, 620-624.	2.6	1

#	Article	IF	Citations
109	Mid/far-infrared few-cycle-pulse emission via resonant mixing in semiconductor heterostructures. Journal of Modern Optics, 2004, 51, 2523-2531.	1.3	7
110	TeV emission of Gamma-Ray Bursts as an instrument to test the universe at high redshifts. Advances in Space Research, 2003, 31, 483-487.	2.6	0
111	Lightcurves and spectral features of X-ray afterglows of gamma-ray bursts. Advances in Space Research, 2003, 32, 2039-2044.	2.6	0
112	Particle acceleration through multiple conversions from a charged into a neutral state and back. Physical Review D, 2003, 68, .	4.7	76
113	Enhancing Acceleration Radiation from Ground-State Atoms via Cavity Quantum Electrodynamics. Physical Review Letters, 2003, 91, 243004.	7.8	101
114	Coherent Radiation from Neutral Molecules Moving above a Grating. Physical Review Letters, 2002, 88, 053602.	7.8	7
115	Constraints on the extremely high-energy cosmic ray accelerators from classical electrodynamics. Physical Review D, 2002, 66, .	4.7	100
116	Three-terminal semiconductor laser for wave mixing. Physical Review A, 2002, 65, .	2.5	23
117	Microwave polarization diagnostics of solar current sheets with transverse component of magnetic field. Advances in Space Research, 2002, 29, 1107-1112.	2.6	3
118	Infrared generation in low-dimensional semiconductor heterostructures via quantum coherence. Physical Review A, 2001, 63, .	2.5	78
119	Physical parameters and emission mechanism in gamma-ray bursts. Astronomy and Astrophysics, 2001, 372, 1071-1077.	5.1	88
120	<title>Two-color heterolasers as parametric generators of infrared radiation</title>. , 2001, , .		2
121	<title>Optical superradiance and pulsed IR generation in quantum-well heterolasers under cw pumping</title>. , 2001, 4605, 356.		1
122	TeV photons from gamma-ray bursts. Advances in Space Research, 2001, 27, 813-818.	2.6	3
123	Master equation vs. partition function: canonical statistics of ideal Boseâ€“Einstein condensates. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 433-467.	2.6	22
124	Title is missing!. Radiophysics and Quantum Electronics, 2001, 44, 443-449.	0.5	2
125	Formation of Annihilation-Cyclotron Lines in Strong Magnetic Fields Near Neutron Stars. Radiophysics and Quantum Electronics, 2001, 44, 16-24.	0.5	2
126	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

#	Article	IF	Citations
127	Features of Superradiance in a Cyclotron Quantum-Dot Heterolaser Under Continuous Pumping. Radiophysics and Quantum Electronics, 2001, 44, 184-195.	0.5	3
128	The Influence of Free Neutrons on Dynamics and Radiation of Astrophysical Plasmas. Radiophysics and Quantum Electronics, 2001, 44, 3-15.	0.5	0
129	Resonant parametric generation of infrared radiation on intersubband transitions in low-dimensional semiconductor heterostructures. Nanotechnology, 2001, 12, 450-452.	2.6	7
130	Problems of superradiant lasing in magnetized quantum wells: two-color regime, inhomogeneous broadening, and VCSEL scheme. , 2001, 4243, 162.		0
131	One- and two-colour superradiant lasing in magnetized quantum-well heterostructures. Nanotechnology, 2001, 12, 581-584.	2.6	2
132	Condensation ofNbosons. III. Analytical results for all higher moments of condensate fluctuations in interacting and ideal dilute Bose gases via the canonical ensemble quasiparticle formulation. Physical Review A, 2000, 61, .	2.5	58
133	Condensate Statistics in Interacting and Ideal Dilute Bose Gases. Physical Review Letters, 2000, 84, 2306-2309.	7.8	74
134	Cosmological Î³-ray bursts from a neutron star collapse induced by a primordial black hole. JETP Letters, 1999, 70, 652-658.	1.4	4
135	The Neutron Component in Fireballs of Gammaâ€Ray Bursts: Dynamics and Observable Imprints. Astrophysical Journal, 1999, 521, 640-649.	4.5	136
136	A neutron star collapse induced by a primordial black hole as the source of cosmological Î³-ray bursts. Radiophysics and Quantum Electronics, 1998, 41, 7-15.	0.5	4
137	Gamma-ray bursts from evaporating primordial black holes. Radiophysics and Quantum Electronics, 1998, 41, 22-27.	0.5	3
138	Gamma-ray bursts from the final stage of primordial black hole evaporations. Advances in Space Research, 1998, 22, 1111-1114.	2.6	1
139	Superradiant generation of femtosecond pulses in quantum-well heterostructures. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1998, 10, L13-L19.	0.9	27
140	<title>Gibbs distribution over quasi-energy levels and antiferroelectric phase in thermal gases</title>. , 1997, 3239, 233.		0
141	Collective QED processes of electron - hole recombination and electron - positron annihilation in a strong magnetic field. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1997, 9, 1-44.	0.9	36
142	<title>Quasi-periodic superradiant regime of femtosecond pulse generation in quantum-well and quantum-dot semiconductor lasers</title>. , 1997, , .		1
143	<title>Parallel coherent amplification and multichannel pulse processing in inhomogeneously broadened fibers</title>. , 1997, , .		1
144	<title>Linear mode coupling and polarization statistics of coherent light in twisted single-mode fibers with random inhomogeneities</title>. , 1997, , .		0

#	Article	IF	Citations
145	Nonstationary dressed states and effects of decay in nonadiabatic crossing of decaying levels. Computers and Mathematics With Applications, 1997, 34, 727-750.	2.7	2
146	Cooperative coherent phenomena in annihilating electron-positron and electron-hole plasmas in a strong magnetic field. Computers and Mathematics With Applications, 1997, 34, 845-880.	2.7	1
147	Gamma-ray spectral features of neutron stars originating from photon splitting in a strong magnetic field. Radiophysics and Quantum Electronics, 1997, 40, 93-102.	0.5	1
148	Absolute and convective superradiance: Dynamics and macroscopic quantum fluctuations. Computers and Mathematics With Applications, 1997, 34, 751-771.	2.7	1
149	Mode instability and nonlinear superradiance phenomena in open Fabry-Perot cavity. Computers and Mathematics With Applications, 1997, 34, 773-793.	2.7	13
150	Inhibited spontaneous emission and electromagnetic instability of an atom in the near zone from the surface of an active medium. Computers and Mathematics With Applications, 1997, 34, 795-805.	2.7	0
151	Effects of the spatial dispersion and instabilities in the wave electrodynamics of weakly ionized gases. Computers and Mathematics With Applications, 1997, 34, 807-844.	2.7	0
152	Reversal of Radiation Reaction Force and Instability of the Ground State of an Atom Located above the Surface of an Active Medium. Physical Review Letters, 1996, 76, 3285-3288.	7.8	11
153	Meissner effect in supercoducting cores of neutron stars. Radiophysics and Quantum Electronics, 1996, 39, 18-22.	0.5	2
154	Self-consistent infrared and ultraviolet asymptotically free unitary renormalizable theory of quantum gravity and matter fields. Foundations of Physics, 1996, 26, 243-256.	1.3	2
155	Explosive amplification of an electromagnetic field in a magnetized flow of accelerated-electron oscillators. Physical Review E, 1996, 53, 5338-5348.	2.1	0
156	Non-Adiabatic Crossing of Decaying Quasienergy States and Master Equation for Driven Quantum System with Non-Stationary Coupling to a Reservoir. , 1996, , .		0
157	Gamma-ray bursts from the final stage of primordial black hole evaporation. Monthly Notices of the Royal Astronomical Society, 1996, 283, 626-634.	4.4	13
158	Infrared neoclassical superradiance in a system of molecules with quasiequidistant spectrum of vibrational levels. Infrared Physics and Technology, 1995, 36, 1003-1006.	2.9	5
159	Pulsed generation of strong quasihomogeneous fields in an open sample of conducting inverted medium under the condition of plasma-dipole resonance. Journal of Optics, 1994, 3, 29-36.	0.5	3
160	Origin of Bragg-Coulomb high-Tc superconductivity Green's function and diagram method for umklapp eâ^'-eâ^' scattering. Physica C: Superconductivity and Its Applications, 1992, 200, 385-402.	1.2	4
161	Superradiance phenomenon in semiconductor magnetooptics. Solid State Communications, 1991, 80, 243-246.	1.9	12
162	Bragg-Coulomb mechanism for high-Tc superconductivity. Physica C: Superconductivity and Its Applications, 1991, 173, 425-443.	1.2	2

#	Article	IF	Citations
163	Superradiance statistics for three-dimensional samples. Optics Communications, 1985, 53, 345-348.	2.1	9
164	Two-wavelength butt-joint diode lasers for the difference- and stum-frequency generation. , 0, , .		0
165	Generation of femtosecond mid/far-infrared pulses in quantum-well heterostructures under femtosecond laser pumping. , 0, , .		0
166	Intracavity wave mixing of self-generated fields in semiconductor lasers for mid/far-infrared generation. , 0, , .		0
167	Optical-microwave mixing schemes revealing QED vacuum nonlinearity. , 0, , .		0
168	Modeling of surface-emitting grating-outcoupled lasers for mid/far-infrared difference-frequency generation. , 0, , .		0