

Aleksei Kuraptsev

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

375
citations

840776

11
h-index

752698

20
g-index

29
all docs

29
docs citations

29
times ranked

81
citing authors

#	ARTICLE	IF	CITATIONS
1	Dispersion of the dielectric permittivity of dense and cold atomic gases. <i>Physical Review A</i> , 2011, 84, .	2.5	50
2	Spontaneous decay of an atom excited in a dense and disordered atomic ensemble: Quantum microscopic approach. <i>Physical Review A</i> , 2014, 90, .	2.5	45
3	Angular distribution of single-photon superradiance in a dilute and cold atomic ensemble. <i>Physical Review A</i> , 2017, 96, .	2.5	36
4	A scaling law for light scattering from dense and cold atomic ensembles. <i>Journal of Modern Optics</i> , 2013, 60, 50-56.	1.3	33
5	Spatial distribution of optically induced atomic excitation in a dense and cold atomic ensemble. <i>Physical Review A</i> , 2013, 87, .	2.5	33
6	Light trapping in an ensemble of pointlike impurity centers in a Fabry-Perot cavity. <i>Physical Review A</i> , 2016, 94, .	2.5	32
7	Reflection of resonant light from a plane surface of an ensemble of motionless point scatterers: Quantum microscopic approach. <i>Physical Review A</i> , 2015, 91, .	2.5	29
8	Microscopic theory of dipole-dipole interaction in ensembles of impurity atoms in a Fabry-Perot cavity. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 123, 237-248.	0.9	22
9	Specific Features of Interatomic Dipole-Dipole Interaction near a Perfectly Conducting Charged Surface. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 127, 455-462.	0.9	14
10	Dipole-dipole interaction between motionless point atoms located near a charged conductive plate. <i>Laser Physics</i> , 2018, 28, 085203.	1.2	14
11	The influence of collective effects on the propagation of electromagnetic radiation in dense ultracold atomic ensembles. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012, 112, 401-409.	0.6	13
12	Coherent population trapping in optically thin ^{133}Cs atomic vapor in a finite-size cell. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1613.	2.1	11
13	Many-body cooperative effects in an ensemble of pointlike impurity centers near a charged conductive surface. <i>Physical Review A</i> , 2019, 100, .	2.5	9
14	Incomplete spontaneous decay in a waveguide caused by polarization selection. <i>Physical Review A</i> , 2020, 101, .	2.5	9
15	Influence of atomic motion on the collective effects in dense and cold atomic ensembles. <i>Physical Review A</i> , 2020, 101, .	2.5	5
16	Size dependence of single-photon superradiance of cold and dilute atomic ensembles. <i>Laser Physics</i> , 2017, 27, 115201.	1.2	4
17	Peculiarities of Joint Influence of Atomic Motion and Hyperfine Splitting of an Excited State on the Shape of Resonance of Coherent Population Trapping in a Rarefied Gas. <i>Journal of Experimental and Theoretical Physics</i> , 2021, 133, 525-532.	0.9	4
18	Interatomic Dipole-Dipole Interaction in a Fabry-Perot Cavity with Charged Mirrors. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2019, 83, 242-246.	0.6	3

#	ARTICLE	IF	CITATIONS
19	Light propagation in a random three-dimensional ensemble of point scatterers in a waveguide: Size-dependent switching between diffuse radiation transfer and Anderson localization of light. <i>Physical Review A</i> , 2022, 105, .	2.5	3
20	Coherent specular reflection of resonant light from a dense ensemble of motionless point-like scatterers in a slab geometry. <i>International Journal of Modern Physics Conference Series</i> , 2016, 41, 1660141.	0.7	2
21	Laser Polarization-Optical Diagnostics of Ordered Objects and Structures. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2020, 84, 263-266.	0.6	2
22	Density-dependent modifications of the transition spectrum of an atom located inside cold atomic ensemble. <i>Journal of Physics: Conference Series</i> , 2015, 594, 012047.	0.4	1
23	Radiation Trapping in a Three-Dimensional Disordered Atomic Ensemble inside a Waveguide. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2022, 86, 661-664.	0.6	1
24	Peculiarities of excitation trapping in dense polyatomic ensemble in a Fabry-Perot cavity. <i>Journal of Physics: Conference Series</i> , 2017, 826, 012023.	0.4	0
25	Cooperative properties of an atomic cluster in a charged Fabry-Perot microcavity. , 2018, , .		0
26	Cooperative spontaneous decay of local excitation in a dense and disordered ensemble of point-like impurity atoms near a charged conductive surface. <i>Journal of Physics: Conference Series</i> , 2019, 1236, 012045.	0.4	0
27	Peculiarities of the interaction-induced modifications of the decay of different Zeeman sublevels of an atom excited in isotropic environment. <i>Laser Physics Letters</i> , 2019, 16, 105206.	1.4	0
28	Comparison of the Radonâ€™Nikodym Method with a Multistage Relaxation Model in the Analysis of the Fluorescence Dynamics of a Cold Atomic Ensemble. <i>Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 qBT /Overdock 10 Tf</i>		0
29	Giant Cooperative Lamb Shift in a Waveguide. , 2021, , .		0