Alexander Gorbunov

List of Publications by Year in Descending Order

68 papers	2,362 citations	18 h-index	48 g-index
73 ext. papers	2,520 ext. citations	2 avg, IF	4.2 L-index

#	Paper	IF	Citations
68	Coherent Properties of a Magnetoexciton Condensate in a Hall Dielectric. *Bulletin of the Russian Academy of Sciences: Physics*, **2022**, 86, 380-385	0.4	0
67	Coherence of a Magnetoexciton Condensate in a Quantum Hall Insulator. *JETP Letters*, **2021**, 114, 417-422	1.2	0
66	Thermalization of Triplet Magneto-Excitons and Spin Transport in a Hall Dielectric. *Bulletin of the Russian Academy of Sciences: Physics*, **2021**, 85, 141-145	0.4	
65	Spin transport in the bulk of two-dimensional Hall insulator. *Applied Physics Letters*, **2019**, 114, 062403	3.4	9
64	Spin Transport over Huge Distances in a Magnetized 2D Electron System. *Annalen Der Physik*, **2019**, 531, 1800443	2.6	0
63	Spin excitations in two-dimensional electron gas, their relaxation, photoexcitation, and detection methods, and the role of Coulomb correlations. *Physics-Uspekhi*, **2019**, 62, 865-891	2.8	3
62	Thermalization and Transport in Dense Ensembles of Triplet Magnetoexcitons. *JETP Letters*, **2019**, 110, 284-289	1.2	5
61	Excited States of Magnetotrion. *JETP Letters*, **2018**, 107, 96-99	1.2	
60	Long-Lived Magnetoexcitons and Two-Dimensional Magnetofermionic Condensate in GaAs/AlGaAs Heterostructure. *Semiconductors*, **2018**, 52, 575-578	0.7	
59	Long-range non-diffusive spin transfer in a Hall insulator. *Scientific Reports*, **2018**, 8, 10948	4.9	14
58	Three-particle electron-hole complexes in two-dimensional electron systems. *Physical Review B*, **2018**, 98,	3.3	10
57	Two-Dimensional Triplet Magnetoexcitons and a Magnetofermionic Condensate in the GaAs/AlGaAs Heterostructures. *Physics of the Solid State*, **2018**, 60, 1645-1652	0.8	
56	Long-lived magnetoexcitons in 2D-fermion system. *Low Temperature Physics*, **2017**, 43, 152-158	0.7	
55	2D magnetofermionic condensate in GaAs/AlGaAs heterostructures. *Low Temperature Physics*, **2017** , 43, 936-941	0.7	
54	Detection of spin excitation transfer in a two-dimensional electron system via photoluminescence of multiparticle exciton complexes. *JETP Letters*, **2017**, 106, 682-685	1.2	2
53	Long-lived two-dimensional triplet magnetoexcitons in a Hall insulator. *Journal of Experimental and Theoretical Physics*, **2016**, 122, 525-530	1	
52	Magnetofermionic condensate in two dimensions. *Nature Communications*, **2016**, 7, 13499	17.4	22

51	Coherence of Bose-Einstein condensates of dipolar excitons in GaAs/AlGaAs heterostructures. *Low Temperature Physics*, **2016**, 42, 340-346	0.7	7
50	Dipolar excitons indirect in real and momentum space in a GaAs/AlAs heterostructure. *Semiconductors*, **2015**, 49, 44-49	0.7	
49	Super-long life time for 2D cyclotron spin-flip excitons. *Scientific Reports*, **2015**, 5, 10354	4.9	28
48	Dipolar excitons in a potential trap in a magnetic field. *Journal of Experimental and Theoretical Physics*, **2014**, 119, 115-123	1	2
47	Compensation of dipolar-exciton spin splitting in magnetic field. *Solid State Communications*, **2013**, 157, 6-10	1.6	13
46	Phase diagram of the bose condensation of dipolar excitons in GaAs/AlGaAs quantum-well heterostructures. *JETP Letters*, **2012**, 96, 138-147	1.2	28
45	Electro-optical trap for dipolar excitons. *Semiconductors*, **2012**, 46, 1423-1428	0.7	
44	Electro-optical trap for dipolar excitons in a GaAs/AlAs Schottky diode with a single quantum well. *JETP Letters*, **2012**, 94, 800-805	1.2	11
43	Bose-Einstein condensation of dipolar excitons in lateral traps. *Low Temperature Physics*, **2011**, 37, 179-187	0.7	17
42	Single quantum dot controlled gain modulation in high-Q micropillar lasers. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 277-282	1.3	3
41	A helium cryostat with pumping of 3He vapors for optical investigations. *Instruments and Experimental Techniques*, **2009**, 52, 888-893	0.5	1
40	Two-photon correlations of luminescence at the Bose-Einstein condensation of dipolar excitons. *JETP Letters*, **2009**, 90, 146-151	1.2	11
39	Bose-Einstein condensation of dipolar excitons in quantum wells. *Journal of Physics: Conference Series*, **2009**, 148, 012049	0.3	1
38	Linear polarization of luminescence in Bose-Einstein condensation of indirect excitons and spontaneous symmetry breaking. *JETP Letters*, **2008**, 87, 698-702	1.2	18
37	Single quantum dot controlled lasing effects in high-Q micropillar cavities. *Optics Express*, **2008**, 16, 4848-4857	3.5	65
36	Bose-Einstein condensation of dipolar excitons in double and single quantum wells. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 2379-2386		24
35	AlAs/GaAs micropillar cavities with quality factors exceeding 150.000. *Applied Physics Letters*, **2007**, 90, 251109	3.4	248
34	Luminescence kinetics of dipolar excitons in circular traps. *JETP Letters*, **2007**, 86, 46-50	1.2	10

33	Collective state of the Bose gas of interacting dipolar excitonsa). *Journal of Applied Physics*, **2007**, 101, 081708	2.5	39
32	Long-range coherence of interacting Bose gas of dipolar excitons. *Journal of Physics Condensed Matter*, **2007**, 19, 295209	1.8	24
31	. *Physics-Uspekhi*, **2006**, 49, 629	2.8	7
30	Lasing in high-Q quantum-dot micropillar cavities. *Applied Physics Letters*, **2006**, 89, 051107	3.4	82
29	An insert for a helium cryostat for experiments with a tip near the surface of a sample in superfluid helium. *Instruments and Experimental Techniques*, **2006**, 49, 144-147	0.5	
28	Collective state in a bose gas of interacting interwell excitons. *JETP Letters*, **2006**, 83, 146-151	1.2	44
27	Large-scale coherence of the bose condensate of spatially indirect excitons. *JETP Letters*, **2006**, 84, 329-334	1.2	61
26	Temperature dependence of luminescence intensity under Bose condensation of interwell excitons. *Journal of Experimental and Theoretical Physics*, **2005**, 101, 693-698	1	2
25	Laser damage of KU-1 quartz glass coated with hydrocarbon films. *Fusion Engineering and Design*, **2005**, 74, 815-818	1.7	7
24	Collective behavior of interwell excitons laterally confined in GaAs/AlGaAs double quantum wells. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 871-876		
23	Interwell excitons in a lateral potential well in an inhomogeneous electric field. *JETP Letters*, **2004**, 80, 185-189	1.2	28
22	Coupling of point-defect microcavities in two-dimensional photonic-crystal slabs. *Journal of the Optical Society of America B: Optical Physics*, **2003**, 20, 373	1.7	8
21	Optical properties of thin films of closely packed SiO2 spheres. *Physics of the Solid State*, **2002**, 44, 1071-1076	1.2	1
20	Fine structure of neutral and charged excitons in self-assembled In(Ga)As/(Al)GaAs quantum dots. *Physical Review B*, **2002**, 65,	3.3	837
19	Optical spectroscopy of a single Al0.36In0.64As/Al0.33Ga0.67As quantum dot. *Physical Review B*, **2001**, 63,	3.3	40
18	Biexcitons in InxGa1−xAs/GaAs quantum wells subject to high magnetic fields. *Physical Review B*, **2001**, 63,	3.3	8
17	Optical properties of thin films and quantum wells of InxGa1-xN/GaN and their dependence on laser irradiation. *Semiconductor Science and Technology*, **1999**, 14, 921-927	1.8	1
16	Electron and Hole g Factors and Exchange Interaction from Studies of the Exciton Fine Structure in In0.60Ga0.40As Quantum Dots. *Physical Review Letters*, **1999**, 82, 1748-1751	7.4	360

15	Zeeman splitting of excitons and biexcitons in single In0.60Ga0.40As/GaAs self-assembled quantum dots. *Physical Review B*, **1998**, 58, R7508-R7511	3.3	114
14	Exciton complexes in InxGa1−xAs/GaAs quantum dots. *Physical Review B*, **1998**, 58, 4740-4753	3.3	84
13	Long-term evolution of photoinduced light absorption in C60 films. *Physics of the Solid State*, **1997**, 39, 1157-1162	0.8	
12	Photoinduced light absorption by C60 films in the 0.08–4.0-eV spectral range. *Journal of Experimental and Theoretical Physics*, **1997**, 85, 135-140	1	8
11	Crystal structure and photoluminescence of single crystals of fullerene-9,9?-trans-bis(telluraxanthenyl) molecular complex: C26H18Te2 □C60 □CS2. *Chemical Physics*, **1997**, 216, 407-415	2.3	13
10	Exciton Spin-Splitting in InxGa1−xAs Quantum Wires and Dots. *Physica Status Solidi A*, **1997**, 164, 409-412		
9	Dendritic Melting in Modulated Laser Beam. *Europhysics Letters*, **1993**, 24, 773-778	1.6	4
8	Electron transitions at 0.1–0.6 eV and DC-conductivity in the semiconducting phase of La2CuO4+x single crystals. *Physica C: Superconductivity and Its Applications*, **1993**, 208, 197-204	1.3	9
7	Parameters of melting dendrites in NaCl. *Acta Metallurgica Et Materialia*, **1992**, 40, 513-517		5
6	Low energy electron transitions in YBa2Cu306+x, single crystals for different oxygen contents. *Physica C: Superconductivity and Its Applications*, **1991**, 176, 35-37	1.3	1
5	Infrared Reflectivity, Inelastic Light Scattering and Energy Gap in a Y-Ba-Cu-O Superconductors **1987**, 893-896		4
4	Special features of optical strength change in melt-grown NaCl crystals. *Crystal Research and Technology*, **1983**, 18, 209-212	1.3	2
3	Laser pulse induced dislocation structure in ionic crystals. I. Bulk damage of NaCl. *Physica Status Solidi A*, **1981**, 66, 53-63		11
2	Laser pulse induced dislocation structure in ionic crystals. II. Surface damage of NaCl and MgO. *Physica Status Solidi A*, **1981**, 66, 455-462		
1	Peculiarities of laser-induced dislocation structure in Mo single crystals. *Scripta Metallurgica*, **1980**, 14, 417-420		5