

Alexander Gorbunov

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Fine structure of neutral and charged excitons in self-assembled In(Ga)As/(Al)GaAs quantum dots. <i>Physical Review B</i> , 2002 , 65,	3.3	837
67	Electron and Hole g Factors and Exchange Interaction from Studies of the Exciton Fine Structure in In _{0.60} Ga _{0.40} As Quantum Dots. <i>Physical Review Letters</i> , 1999 , 82, 1748-1751	7.4	360
66	AlAs/GaAs micropillar cavities with quality factors exceeding 150.000. <i>Applied Physics Letters</i> , 2007 , 90, 251109	3.4	248
65	Zeeman splitting of excitons and biexcitons in single In _{0.60} Ga _{0.40} As/GaAs self-assembled quantum dots. <i>Physical Review B</i> , 1998 , 58, R7508-R7511	3.3	114
64	Exciton complexes in In _x Ga _{1-x} As/GaAs quantum dots. <i>Physical Review B</i> , 1998 , 58, 4740-4753	3.3	84
63	Lasing in high-Q quantum-dot micropillar cavities. <i>Applied Physics Letters</i> , 2006 , 89, 051107	3.4	82
62	Single quantum dot controlled lasing effects in high-Q micropillar cavities. <i>Optics Express</i> , 2008 , 16, 4848-4857	3.57	65
61	Large-scale coherence of the bose condensate of spatially indirect excitons. <i>JETP Letters</i> , 2006 , 84, 329-334	3.34	61
60	Collective state in a bose gas of interacting interwell excitons. <i>JETP Letters</i> , 2006 , 83, 146-151	1.2	44
59	Optical spectroscopy of a single Al _{0.36} In _{0.64} As/Al _{0.33} Ga _{0.67} As quantum dot. <i>Physical Review B</i> , 2001 , 63,	3.3	40
58	Collective state of the Bose gas of interacting dipolar excitons. <i>Journal of Applied Physics</i> , 2007 , 101, 081708	2.5	39
57	Super-long life time for 2D cyclotron spin-flip excitons. <i>Scientific Reports</i> , 2015 , 5, 10354	4.9	28
56	Phase diagram of the bose condensation of dipolar excitons in GaAs/AlGaAs quantum-well heterostructures. <i>JETP Letters</i> , 2012 , 96, 138-147	1.2	28
55	Interwell excitons in a lateral potential well in an inhomogeneous electric field. <i>JETP Letters</i> , 2004 , 80, 185-189	1.2	28
54	Bose-Einstein condensation of dipolar excitons in double and single quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2379-2386		24
53	Long-range coherence of interacting Bose gas of dipolar excitons. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 295209	1.8	24
52	Magnetofermionic condensate in two dimensions. <i>Nature Communications</i> , 2016 , 7, 13499	17.4	22

51	Linear polarization of luminescence in Bose-Einstein condensation of indirect excitons and spontaneous symmetry breaking. <i>JETP Letters</i> , 2008 , 87, 698-702	1.2	18
50	Bose-Einstein condensation of dipolar excitons in lateral traps. <i>Low Temperature Physics</i> , 2011 , 37, 179-187	1.7	17
49	Long-range non-diffusive spin transfer in a Hall insulator. <i>Scientific Reports</i> , 2018 , 8, 10948	4.9	14
48	Compensation of dipolar-exciton spin splitting in magnetic field. <i>Solid State Communications</i> , 2013 , 157, 6-10	1.6	13
47	Crystal structure and photoluminescence of single crystals of fullerene-9,9?-trans-bis(telluraxanthenyl) molecular complex: C ₂₆ H ₁₈ Te ₂ @C ₆₀ @CS ₂ . <i>Chemical Physics</i> , 1997 , 216, 407-415	2.3	13
46	Electro-optical trap for dipolar excitons in a GaAs/AlAs Schottky diode with a single quantum well. <i>JETP Letters</i> , 2012 , 94, 800-805	1.2	11
45	Two-photon correlations of luminescence at the Bose-Einstein condensation of dipolar excitons. <i>JETP Letters</i> , 2009 , 90, 146-151	1.2	11
44	Laser pulse induced dislocation structure in ionic crystals. I. Bulk damage of NaCl. <i>Physica Status Solidi A</i> , 1981 , 66, 53-63		11
43	Luminescence kinetics of dipolar excitons in circular traps. <i>JETP Letters</i> , 2007 , 86, 46-50	1.2	10
42	Three-particle electron-hole complexes in two-dimensional electron systems. <i>Physical Review B</i> , 2018 , 98,	3.3	10
41	Spin transport in the bulk of two-dimensional Hall insulator. <i>Applied Physics Letters</i> , 2019 , 114, 062403	3.4	9
40	Electron transitions at 0.10.6 eV and DC-conductivity in the semiconducting phase of La ₂ CuO _{4+x} single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 208, 197-204	1.3	9
39	Photoinduced light absorption by C ₆₀ films in the 0.08-0.0-eV spectral range. <i>Journal of Experimental and Theoretical Physics</i> , 1997 , 85, 135-140	1	8
38	Coupling of point-defect microcavities in two-dimensional photonic-crystal slabs. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 373	1.7	8
37	Biexcitons in In _x Ga _{1-x} As/GaAs quantum wells subject to high magnetic fields. <i>Physical Review B</i> , 2001 , 63,	3.3	8
36	. <i>Physics-Uspekhi</i> , 2006 , 49, 629	2.8	7
35	Laser damage of KU-1 quartz glass coated with hydrocarbon films. <i>Fusion Engineering and Design</i> , 2005 , 74, 815-818	1.7	7
34	Coherence of Bose-Einstein condensates of dipolar excitons in GaAs/AlGaAs heterostructures. <i>Low Temperature Physics</i> , 2016 , 42, 340-346	0.7	7

33	Parameters of melting dendrites in NaCl. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 513-517		5
32	Peculiarities of laser-induced dislocation structure in Mo single crystals. <i>Scripta Metallurgica</i> , 1980 , 14, 417-420		5
31	Thermalization and Transport in Dense Ensembles of Triplet Magnetoexcitons. <i>JETP Letters</i> , 2019 , 110, 284-289	1.2	5
30	Dendritic Melting in Modulated Laser Beam. <i>Europhysics Letters</i> , 1993 , 24, 773-778	1.6	4
29	Infrared Reflectivity, Inelastic Light Scattering and Energy Gap in a Y-Ba-Cu-O Superconductors 1987 , 893-896		4
28	Single quantum dot controlled gain modulation in high-Q micropillar lasers. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 277-282	1.3	3
27	Spin excitations in two-dimensional electron gas, their relaxation, photoexcitation, and detection methods, and the role of Coulomb correlations. <i>Physics-Uspekhi</i> , 2019 , 62, 865-891	2.8	3
26	Dipolar excitons in a potential trap in a magnetic field. <i>Journal of Experimental and Theoretical Physics</i> , 2014 , 119, 115-123	1	2
25	Detection of spin excitation transfer in a two-dimensional electron system via photoluminescence of multiparticle exciton complexes. <i>JETP Letters</i> , 2017 , 106, 682-685	1.2	2
24	Temperature dependence of luminescence intensity under Bose condensation of interwell excitons. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 101, 693-698	1	2
23	Special features of optical strength change in melt-grown NaCl crystals. <i>Crystal Research and Technology</i> , 1983 , 18, 209-212	1.3	2
22	A helium cryostat with pumping of ³ He vapors for optical investigations. <i>Instruments and Experimental Techniques</i> , 2009 , 52, 888-893	0.5	1
21	Bose-Einstein condensation of dipolar excitons in quantum wells. <i>Journal of Physics: Conference Series</i> , 2009 , 148, 012049	0.3	1
20	Optical properties of thin films of closely packed SiO ₂ spheres. <i>Physics of the Solid State</i> , 2002 , 44, 1071-1076	1.8	1
19	Optical properties of thin films and quantum wells of In _x Ga _{1-x} N/GaN and their dependence on laser irradiation. <i>Semiconductor Science and Technology</i> , 1999 , 14, 921-927	1.8	1
18	Low energy electron transitions in YBa ₂ Cu ₃ O _{6+x} , single crystals for different oxygen contents. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 176, 35-37	1.3	1
17	Spin Transport over Huge Distances in a Magnetized 2D Electron System. <i>Annalen Der Physik</i> , 2019 , 531, 1800443	2.6	0
16	Coherence of a Magnetoexciton Condensate in a Quantum Hall Insulator. <i>JETP Letters</i> , 2021 , 114, 417-422		0

15	Coherent Properties of a Magnetoexciton Condensate in a Hall Dielectric. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2022 , 86, 380-385	0.4	0
14	Long-lived magnetoexcitons in 2D-fermion system. <i>Low Temperature Physics</i> , 2017 , 43, 152-158	0.7	
13	Dipolar excitons indirect in real and momentum space in a GaAs/AlAs heterostructure. <i>Semiconductors</i> , 2015 , 49, 44-49	0.7	
12	Long-lived two-dimensional triplet magnetoexcitons in a Hall insulator. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 122, 525-530	1	
11	Excited States of Magnetotriion. <i>JETP Letters</i> , 2018 , 107, 96-99	1.2	
10	Long-Lived Magnetoexcitons and Two-Dimensional Magnetofermionic Condensate in GaAs/AlGaAs Heterostructure. <i>Semiconductors</i> , 2018 , 52, 575-578	0.7	
9	2D magnetofermionic condensate in GaAs/AlGaAs heterostructures. <i>Low Temperature Physics</i> , 2017 , 43, 936-941	0.7	
8	Electro-optical trap for dipolar excitons. <i>Semiconductors</i> , 2012 , 46, 1423-1428	0.7	
7	Long-term evolution of photoinduced light absorption in C60 films. <i>Physics of the Solid State</i> , 1997 , 39, 1157-1162	0.8	
6	Exciton Spin-Splitting in InxGa1-xAs Quantum Wires and Dots. <i>Physica Status Solidi A</i> , 1997 , 164, 409-412		
5	An insert for a helium cryostat for experiments with a tip near the surface of a sample in superfluid helium. <i>Instruments and Experimental Techniques</i> , 2006 , 49, 144-147	0.5	
4	Collective behavior of interwell excitons laterally confined in GaAs/AlGaAs double quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 871-876		
3	Laser pulse induced dislocation structure in ionic crystals. II. Surface damage of NaCl and MgO. <i>Physica Status Solidi A</i> , 1981 , 66, 455-462		
2	Thermalization of Triplet Magneto-Excitons and Spin Transport in a Hall Dielectric. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021 , 85, 141-145	0.4	
1	Two-Dimensional Triplet Magnetoexcitons and a Magnetofermionic Condensate in the GaAs/AlGaAs Heterostructures. <i>Physics of the Solid State</i> , 2018 , 60, 1645-1652	0.8	