

# Boris

## List of Publications by Year in descending order

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101  
papers

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citations

759233

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103  
docs citations

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times ranked

440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Ion Bombardment on the Spectra of the Edge Photoconductivity and in the Current-Voltage Characteristics of CdS Crystals. <i>Semiconductors</i> , 2022, 56, 5-9.	0.5	1
2	Thermodynamics of the Ideal Two-Dimensional Magnetoexciton Gas with Linear Dispersion Law. <i>Semiconductors</i> , 2020, 54, 1522-1525.	0.5	0
3	Emission Kinetics of Surface (Bi)Excitons in ZnO Thin Films. <i>Physics of the Solid State</i> , 2019, 61, 402-407.	0.6	3
4	Photoinduced Effects in the ZnO Luminescence Spectra. <i>Physics of the Solid State</i> , 2018, 60, 352-356.	0.6	4
5	ZnO-based random lasing on nanoparticles realized by laser induced breakdown. <i>Journal of Luminescence</i> , 2017, 182, 45-48.	3.1	5
6	Manifestation of oxygen desorption in photoluminescence spectra of ZnO. <i>Physics of the Solid State</i> , 2016, 58, 1767-1771.	0.6	12
7	Dispersion laws of the two-dimensional cavity magnetoexciton-polaritons. <i>Journal of Nanophotonics</i> , 2016, 10, 036006.	1.0	2
8	Photoluminescence Spectra of thin ZnO films grown by ALD technology. <i>Physics of the Solid State</i> , 2015, 57, 1865-1869.	0.6	4
9	Temperature quenching of spontaneous emission in tunnel-injection nanostructures. <i>Semiconductors</i> , 2015, 49, 1483-1492.	0.5	1
10	Landau quantization, Rashba spin-orbit coupling and Zeeman splitting of two-dimensional heavy-hole gases. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 730-742.	1.5	4
11	Photoelectric properties of an array of axial GaAs/AlGaAs nanowires. <i>Technical Physics Letters</i> , 2015, 41, 443-447.	0.7	6
12	Ex post manipulation of barriers in InGaAs tunnel injection devices. <i>Applied Physics Letters</i> , 2015, 106, 013104.	3.3	2
13	Raman spectra and structural peculiarities of GaAs nanowires. <i>Journal of Surface Investigation</i> , 2014, 8, 104-110.	0.5	2
14	Effect of nanobridges on the emission spectra of a quantum dot-quantum well tunneling pair. <i>Semiconductors</i> , 2014, 48, 1178-1184.	0.5	3
15	Stabilization of a spike in excitonic light reflection spectra of CdSe crystals subjected to low-energy electron bombardment. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2013, 114, 390-393.	0.6	0
16	Luminescence of CdS crystals due to near-surface potential fluctuations. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2013, 114, 225-229.	0.6	0
17	Computer simulation of the structure and raman spectra of GaAs polytypes. <i>Physics of the Solid State</i> , 2013, 55, 1220-1230.	0.6	4
18	Anomalous spectral photoresistive field effect in CdS crystals caused by the screening of the electron-hole interaction. <i>Physics of the Solid State</i> , 2013, 55, 696-701.	0.6	2

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19	Effect of surface scattering of carriers in the photoconductivity spectra of CdS. Semiconductors, 2013, 47, 619-622.	0.5	0
20	Effects of surface adhesion of nonequilibrium charge carriers in the photoconductivity spectra of CdS crystals. Technical Physics, 2013, 58, 1263-1266.	0.7	0
21	Excitonic structure formation in the photoconductivity spectra of CdS crystals at modulated excitation. Semiconductors, 2013, 47, 1153-1156.	0.5	0
22	Composite system based on CdSe/ZnS quantum dots and GaAs nanowires. Semiconductors, 2013, 47, 1346-1350.	0.5	10
23	Mixed exciton-plasmon collective elementary excitations of the Bose-Einstein condensed two-dimensional magnetoexcitons with motional dipole moments. Physica Status Solidi (B): Basic Research, 2013, 250, 115-127.	1.5	0
24	Light-emitting tunneling nanostructures based on quantum dots in a Si and GaAs matrix. Semiconductors, 2012, 46, 1460-1470.	0.5	9
25	Photostimulated growth of whiskers in AgI-type superionic crystals. Technical Physics, 2012, 57, 220-224.	0.7	2
26	Formation of p-n junctions during solid-state chemical reactions involving superionic crystals. Technical Physics Letters, 2012, 38, 540-543.	0.7	0
27	Landau quantization of a two-dimensional electron with the nonparabolic dispersion law, pseudospin components and chirality terms. Solid State Communications, 2011, 151, 1690-1695.	1.9	7
28	Specific features of Raman spectra of III-V nanowhiskers. Physics of the Solid State, 2011, 53, 1431-1439.	0.6	5
29	Tunnel injection emitter structures with barriers comprising nanobridges. Physica Status Solidi - Rapid Research Letters, 2011, 5, 385-387.	2.4	5
30	InGaAs tunnel-injection structures with nanobridges: Excitation transfer and luminescence kinetics. Semiconductors, 2010, 44, 1050-1058.	0.5	5
31	Specific features of the CuI nanocrystal structure in photochromic glasses. Physics of the Solid State, 2010, 52, 805-809.	0.6	7
32	Manifestation of metastable cubic modifications in finely dispersed A2B6 compounds. Technical Physics Letters, 2010, 36, 240-243.	0.7	1
33	Photoluminescence properties of GaAs nanowire ensembles with zincblende and wurtzite crystal structure. Physica Status Solidi - Rapid Research Letters, 2010, 4, 175-177.	2.4	27
34	Temperature dependent luminescence from quantum dot arrays: phonon-assisted line broadening versus carrier escape-induced narrowing. Physica Status Solidi (B): Basic Research, 2010, 247, 347-352.	1.5	8
35	Atomic layer deposition of CuCl nanoparticles. Applied Physics Letters, 2010, 97, .	3.3	11
36	Study of ion diffusion in superionic crystals by EPMA and local CL. Superlattices and Microstructures, 2009, 45, 369-375.	3.1	1

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37	Baric properties of InAs quantum dots. Semiconductors, 2008, 42, 1076-1083.	0.5	13
38	Structure of copper halide nanocrystals in photochromic glasses. Physics of the Solid State, 2008, 50, 1352-1356.	0.6	4
39	Transient carrier transfer in tunnel injection structures. Applied Physics Letters, 2008, 93, 031105.	3.3	24
40	INFLUENCE OF HYDROSTATIC PRESSURE ON EXCITON PHOTOLUMINESCENCE SPECTRUM OF EXCITON MOLECULES InAs/GaAs. International Journal of Nanoscience, 2007, 06, 249-252.	0.7	0
41	Resonances related to an array of InAs quantum dots and controlled by an external electric field. Semiconductors, 2007, 41, 197-204.	0.5	0
42	Numerical simulation of the temperature dependence of the photoluminescence spectra of InAs/GaAs quantum dots. Physics of the Solid State, 2007, 49, 1184-1190.	0.6	6
43	Metastable modifications in mercury diiodide nanocrystals. Physics of the Solid State, 2007, 49, 1375-1381.	0.6	2
44	The effect of misorientation of the GaAs substrate on the properties of InAs quantum dots grown by low-temperature molecular beam epitaxy. Semiconductors, 2006, 40, 587-591.	0.5	1
45	Morphology of the stabilized natural faces of a CdS $_{1-x}$ Se $_x$ solid solution. Physics of the Solid State, 2006, 48, 631-636.	0.6	0
46	Title is missing!. Physics-Uspekh, 2006, 49, 879.	2.2	0
47	Tuning of the interdot resonance in stacked InAs quantum dot arrays by an external electric field. Journal of Applied Physics, 2006, 100, 083704.	2.5	7
48	Stabilized High-Temperature Hexagonal Phase in Copper Halide Nanocrystals. Physics of the Solid State, 2005, 47, 1372.	0.6	2
49	Spectroscopy of exciton states of InAs quantum molecules. Semiconductors, 2004, 38, 696-701.	0.5	1
50	Transient spectroscopy of InAs quantum dot molecules. Applied Physics Letters, 2004, 85, 284-286.	3.3	20
51	Direct observation of localized exciton states in CdS $_{1-x}$ Se $_x$ solid solutions. JETP Letters, 2003, 78, 17-20.	1.4	1
52	Spectral photoresistive effect of the field in CdS crystals at low temperatures. Physics of the Solid State, 2003, 45, 2060-2066.	0.6	8
53	Room-temperature 1.5-1.6 $\mu\text{m}$ photoluminescence from InGaAs/GaAs heterostructures grown at low substrate temperature. Semiconductors, 2003, 37, 1406-1410.	0.5	1
54	Photoluminescence of isolated quantum dots in metastable InAs arrays. Nanotechnology, 2002, 13, 143-148.	2.6	15

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55	<title>Influence of temperature and hydrostatic pressure on luminescence spectra of InAs/GaSb quantum dots</title>. , 2002, , .		0
56	HRTEM and Optical Study of Stacking Faults in CdS <sub>1-x</sub> Se <sub>x</sub> Crystals. Physica Status Solidi (B): Basic Research, 2002, 229, 69-72.	1.5	3
57	Formation of the HgI <sub>2</sub> crystalline phase in the bulk and on the surface of nanocrystalline matrices. Physics of the Solid State, 2002, 44, 1388-1393.	0.6	1
58	Radiative Recombination Features of Metastable Quantum Dot Array. Physica Status Solidi (B): Basic Research, 2001, 224, 101-105.	1.5	5
59	Observation of stacking faults in hexagonal CdS <sub>1-x</sub> Se <sub>x</sub> single crystals by HRTEM and their influence on cathodoluminescence (CL) spectra. Journal of Crystal Growth, 2001, 233, 68-73.	1.5	5
60	Photoluminescence decay time measurements from self-organized InAs/GaAs quantum dots grown on misoriented substrates. Nanotechnology, 2001, 12, 512-514.	2.6	6
61	Optical manifestation of stacking faults in CdS <sub>1-x</sub> Se <sub>x</sub> crystals. Journal of Crystal Growth, 2000, 214-215, 457-459.	1.5	2
62	Optical spectroscopy of near-surface excitonic states. Thin Solid Films, 2000, 373, 227-230.	1.8	7
63	Recombination emission from InAs quantum dots grown on vicinal GaAs surfaces. Semiconductors, 2000, 34, 453-461.	0.5	10
64	X-ray diffraction and optical studies of CdS <sub>1-x</sub> Se <sub>x</sub> solid solutions with stacking faults. Physics of the Solid State, 2000, 42, 1613-1621.	0.6	2
65	Effect of IR illumination on photocurrent spectra in CdS crystals. Physics of the Solid State, 1999, 41, 1075-1078.	0.6	4
66	Specific features in low-frequency vibrations of nanocrystals in fluorophosphate glassy matrices. Physics of the Solid State, 1999, 41, 1194-1197.	0.6	2
67	Quantum confinement in CdS <sub>x</sub> Se <sub>1-x</sub> spherical nanocrystals in a fluorophosphate glass matrix. Physics of the Solid State, 1999, 41, 1378-1382.	0.6	0
68	Emergence of exciton near-surface localized states in the reflectance spectra of low-Se CdS <sub>1-x</sub> Se <sub>x</sub> crystals. Physics of the Solid State, 1999, 41, 1437-1443.	0.6	0
69	New type of excitonic radiation in the solid solutions CdS <sub>1-x</sub> Se <sub>x</sub> . JETP Letters, 1999, 70, 222-227.	1.4	2
70	Study of the phase composition of AgI microcrystals by exciton spectroscopy and differential scanning calorimetry. Physics of the Solid State, 1998, 40, 784-786.	0.6	2
71	Photoreflexion and photoconduction spectra of CdS crystals: Excitons in the electric fields of surface states. Physics of the Solid State, 1998, 40, 806-807.	0.6	0
72	Excitons in the preionization electric field of a Schottky barrier. Physics of the Solid State, 1998, 40, 810-811.	0.6	0

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73	Investigation of the excitonic structure in the photoconductivity spectra of CdS crystals. <i>Physics of the Solid State</i> , 1998, 40, 867-869.	0.6	7
74	Molecular layering of 2D films and superlattices based on II-VI compounds. <i>Physics of the Solid State</i> , 1998, 40, 754-755.	0.6	3
75	Luminescence of mercuric iodide crystals. <i>Physics of the Solid State</i> , 1997, 39, 58-63.	0.6	16
76	Size-quantization effects in the optical spectra of PbI <sub>2</sub> and HgI <sub>2</sub> nanocrystals. <i>Physics of the Solid State</i> , 1997, 39, 407-411.	0.6	7
77	Anomalous Stark effect on excitonic states in a preionization electric field. <i>JETP Letters</i> , 1996, 64, 42-46.	1.4	6
78	Determination of the heat of superionic Ag <sub>2</sub> HgI <sub>4</sub> and Cu <sub>2</sub> HgI <sub>4</sub> crystals formation in the course of the solid state reactions. <i>Solid State Ionics</i> , 1996, 89, 333-335.	2.7	5
79	Threshold of stimulated emission in multivalley lead salts. <i>Journal of Applied Physics</i> , 1995, 78, 7247-7254.	2.5	2
80	Modulation of excitonic reflectance at GaAs/GaAs interfaces. <i>Journal of Applied Physics</i> , 1995, 78, 4011-4014.	2.5	3
81	Investigation of radiation resistance of cadmium sulfide and selenide crystals by examination of spectra of bound excitons. <i>Journal of Applied Spectroscopy</i> , 1992, 56, 174-177.	0.7	0
82	Optical Spectroscopy of the Superionic Crystals. <i>Physica Status Solidi A</i> , 1990, 119, 363-415.	1.7	16
83	Effect of Lattice Disorder on the Excitonic States in Superionic Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 148, 185-195.	1.5	6
84	Hydrogen-induced localized vibrational mode in proton implanted ZnSe single crystals. <i>Solid State Communications</i> , 1987, 61, 113-115.	1.9	15
85	Effect of thin space-charge layers on exciton reflectance. <i>Physica Status Solidi (B): Basic Research</i> , 1986, 133, 573-581.	1.5	11
86	Localization of excitons in space-charge layers. <i>Physica Status Solidi (B): Basic Research</i> , 1986, 135, 597-604.	1.5	8
87	Influence of Preparation Conditions on the Optical Band Gap and the Mn <sup>2+</sup> ESR Spectrum of ZnSe Single Crystals. <i>Physica Status Solidi A</i> , 1977, 40, 575-581.	1.7	5
88	Free-Carrier Generation via Exciton-Phonon and Exciton-Impurity Interaction in Ge Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1976, 74, 81-89.	1.5	2
89	A cryostat for electron irradiation of crystals and for optical studies. <i>Cryogenics</i> , 1976, 16, 683-684.	1.7	1
90	Selective optical valley pumping in silicon and germanium. <i>Solid State Communications</i> , 1976, 20, 27-29.	1.9	9

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91	The influence of Zn and Se heat treatment on the exciton spectra of ZnSe single crystals. Physica Status Solidi A, 1975, 27, 123-127.	1.7	45
92	Ionization of donors by excitons in ZnSe single crystals at high excitation levels. Physica Status Solidi A, 1975, 31, K5-K7.	1.7	3
93	Exciton Polaritons in HgI <sub>2</sub> Crystals. Physica Status Solidi (B): Basic Research, 1975, 70, 353-358.	1.5	27
94	Spectroscopic study of exciton-exciton interaction (Biexcitons, drops) in semiconducting crystals. Springer Tracts in Modern Physics, 1975, , 106-126.	0.1	1
95	Determination of exciton diffusion length from photoconductivity low-temperature spectra. Physica Status Solidi (B): Basic Research, 1971, 48, 473-480.	1.5	8
96	The study of surface properties of CdS single crystals by means of exciton luminescence. Physics Letters, Section A: General, Atomic and Solid State Physics, 1970, 32, 205-206.	2.1	4
97	Bound-exciton spectra and radiation defects in A <sub>2</sub> B <sub>6</sub> compounds. Journal of Applied Spectroscopy, 1969, 10, 668-672.	0.7	0
98	Phonon-Assisted Exciton Transitions in the Spectral Response of the Photoconductivity of CdS Single Crystals. Physica Status Solidi (B): Basic Research, 1969, 34, K59.	1.5	6
99	Influence of Oxygen Adsorption on the Fine Structure of the Spectral Distribution of Photoconductivity in CdS Crystals. Physica Status Solidi (B): Basic Research, 1968, 28, K85.	1.5	12
100	Application of bound-exciton optical spectra in the study of radiation damage in crystals. Physica Status Solidi (B): Basic Research, 1966, 18, K1.	1.5	16
101	The fine structure of the spectral curves of photoconductivity and luminescence excitation and its correlation to the exciton absorption spectrum. Journal of Physics and Chemistry of Solids, 1961, 22, 87-100.	4.0	56