

Boris

List of Publications by Year in descending order

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101
papers

610
citations

759233

12
h-index

752698

20
g-index

103
all docs

103
docs citations

103
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Exciton Polaritons in HgI ₂ Crystals. Physica Status Solidi (B): Basic Research, 1975, 70, 353-358.	1.5	27
4	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
5	Transient carrier transfer in tunnel injection structures. Applied Physics Letters, 2008, 93, 031105.	3.3	24
6	Transient spectroscopy of InAs quantum dot molecules. Applied Physics Letters, 2004, 85, 284-286.	3.3	20
7	Application of boundâ€exciton optical spectra in the study of radiation damage in crystals. Physica Status Solidi (B): Basic Research, 1966, 18, K1.	1.5	16
8	Optical Spectroscopy of the Superionic Crystals. Physica Status Solidi A, 1990, 119, 363-415.	1.7	16
9	Luminescence of mercuric iodide crystals. Physics of the Solid State, 1997, 39, 58-63.	0.6	16
10	Hydrogen-induced localized vibrational mode in proton implanted ZnSe single crystals. Solid State Communications, 1987, 61, 113-115.	1.9	15
11	Photoluminescence of isolated quantum dots in metastable InAs arrays. Nanotechnology, 2002, 13, 143-148.	2.6	15
12	Baric properties of InAs quantum dots. Semiconductors, 2008, 42, 1076-1083.	0.5	13
13	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
14	Manifestation of oxygen desorption in photoluminescence spectra of ZnO. Physics of the Solid State, 2016, 58, 1767-1771.	0.6	12
15	Effect of thin spaceâ€charge layers on exciton reflectance. Physica Status Solidi (B): Basic Research, 1986, 133, 573-581.	1.5	11
16	Atomic layer deposition of CuCl nanoparticles. Applied Physics Letters, 2010, 97, .	3.3	11
17	Recombination emission from InAs quantum dots grown on vicinal GaAs surfaces. Semiconductors, 2000, 34, 453-461.	0.5	10
18	Composite system based on CdSe/ZnS quantum dots and GaAs nanowires. Semiconductors, 2013, 47, 1346-1350.	0.5	10

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19	Selective optical valley pumping in silicon and germanium. Solid State Communications, 1976, 20, 27-29.	1.9	9
20	Light-emitting tunneling nanostructures based on quantum dots in a Si and GaAs matrix. Semiconductors, 2012, 46, 1460-1470.	0.5	9
21	Determination of exciton diffusion length from photoconductivity low-temperature spectra. Physica Status Solidi (B): Basic Research, 1971, 48, 473-480.	1.5	8
22	Localization of excitons in space-charge layers. Physica Status Solidi (B): Basic Research, 1986, 135, 597-604.	1.5	8
23	Spectral photoresistive effect of the field in CdS crystals at low temperatures. Physics of the Solid State, 2003, 45, 2060-2066.	0.6	8
24	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
25	Size-quantization effects in the optical spectra of PbI ₂ and HgI ₂ nanocrystals. Physics of the Solid State, 1997, 39, 407-411.	0.6	7
26	Investigation of the excitonic structure in the photoconductivity spectra of CdS crystals. Physics of the Solid State, 1998, 40, 867-869.	0.6	7
27	Optical spectroscopy of near-surface excitonic states. Thin Solid Films, 2000, 373, 227-230.	1.8	7
28	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
29	Specific features of the CuI nanocrystal structure in photochromic glasses. Physics of the Solid State, 2010, 52, 805-809.	0.6	7
30	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
31	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
32	Effect of Lattice Disorder on the Excitonic States in Superionic Crystals. Physica Status Solidi (B): Basic Research, 1988, 148, 185-195.	1.5	6
33	Anomalous Stark effect on excitonic states in a preionization electric field. JETP Letters, 1996, 64, 42-46.	1.4	6
34	Photoluminescence decay time measurements from self-organized InAs/GaAs quantum dots grown on misoriented substrates. Nanotechnology, 2001, 12, 512-514.	2.6	6
35	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
36	Photoelectric properties of an array of axial GaAs/AlGaAs nanowires. Technical Physics Letters, 2015, 41, 443-447.	0.7	6

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37	Influence of Preparation Conditions on the Optical Band Gap and the Mn ²⁺ ESR Spectrum of ZnSe Single Crystals. <i>Physica Status Solidi A</i> , 1977, 40, 575-581.	1.7	5
38	Determination of the heat of superionic Ag ₂ HgI ₄ and Cu ₂ HgI ₄ crystals formation in the course of the solid state reactions. <i>Solid State Ionics</i> , 1996, 89, 333-335.	2.7	5
39	Radiative Recombination Features of Metastable Quantum Dot Array. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 224, 101-105.	1.5	5
40	Observation of stacking faults in hexagonal CdS _{1-x} Se _x single crystals by HRTEM and their influence on cathodoluminescence (CL) spectra. <i>Journal of Crystal Growth</i> , 2001, 233, 68-73.	1.5	5
41	InGaAs tunnel-injection structures with nanobridges: Excitation transfer and luminescence kinetics. <i>Semiconductors</i> , 2010, 44, 1050-1058.	0.5	5
42	Specific features of Raman spectra of III-V nanowhiskers. <i>Physics of the Solid State</i> , 2011, 53, 1431-1439.	0.6	5
43	Tunnel injection emitter structures with barriers comprising nanobridges. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 385-387.	2.4	5
44	ZnO-based random lasing on nanoparticles realized by laser induced breakdown. <i>Journal of Luminescence</i> , 2017, 182, 45-48.	3.1	5
45	The study of surface properties of CdS single crystals by means of exciton luminescence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1970, 32, 205-206.	2.1	4
46	Effect of IR illumination on photocurrent spectra in CdS crystals. <i>Physics of the Solid State</i> , 1999, 41, 1075-1078.	0.6	4
47	Structure of copper halide nanocrystals in photochromic glasses. <i>Physics of the Solid State</i> , 2008, 50, 1352-1356.	0.6	4
48	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
49	Photoluminescence Spectra of thin ZnO films grown by ALD technology. <i>Physics of the Solid State</i> , 2015, 57, 1865-1869.	0.6	4
50	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
51	Photoinduced Effects in the ZnO Luminescence Spectra. <i>Physics of the Solid State</i> , 2018, 60, 352-356.	0.6	4
52	Ionization of donors by excitons in ZnSe single crystals at high excitation levels. <i>Physica Status Solidi A</i> , 1975, 31, K5-K7.	1.7	3
53	Modulation of excitonic reflectance at GaAs/GaAs interfaces. <i>Journal of Applied Physics</i> , 1995, 78, 4011-4014.	2.5	3
54	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

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55	HRTEM and Optical Study of Stacking Faults in CdS _{1-x} Se _x Crystals. Physica Status Solidi (B): Basic Research, 2002, 229, 69-72.	1.5	3
56	Effect of nanobridges on the emission spectra of a quantum dot-quantum well tunneling pair. Semiconductors, 2014, 48, 1178-1184.	0.5	3
57	Emission Kinetics of Surface (Bi)Excitons in ZnO Thin Films. Physics of the Solid State, 2019, 61, 402-407.	0.6	3
58	Free-Carrier Generation via Exciton-Phonon and Exciton-Impurity Interaction in Ge Crystals. Physica Status Solidi (B): Basic Research, 1976, 74, 81-89.	1.5	2
59	Threshold of stimulated emission in multivalley lead salts. Journal of Applied Physics, 1995, 78, 7247-7254.	2.5	2
60	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
61	Specific features in low-frequency vibrations of nanocrystals in fluorophosphate glassy matrices. Physics of the Solid State, 1999, 41, 1194-1197.	0.6	2
62	New type of excitonic radiation in the solid solutions CdS _{1-x} Se _x . JETP Letters, 1999, 70, 222-227.	1.4	2
63	Optical manifestation of stacking faults in CdS _{1-x} Se _x crystals. Journal of Crystal Growth, 2000, 214-215, 457-459.	1.5	2
64	X-ray diffraction and optical studies of CdS _{1-x} Se _x solid solutions with stacking faults. Physics of the Solid State, 2000, 42, 1613-1621.	0.6	2
65	Stabilized High-Temperature Hexagonal Phase in Copper Halide Nanocrystals. Physics of the Solid State, 2005, 47, 1372.	0.6	2
66	Metastable modifications in mercury diiodide nanocrystals. Physics of the Solid State, 2007, 49, 1375-1381.	0.6	2
67	Photostimulated growth of whiskers in AgI-type superionic crystals. Technical Physics, 2012, 57, 220-224.	0.7	2
68	Anomalous spectral photoresistive field effect in CdS crystals caused by the screening of the electron-hole interaction. Physics of the Solid State, 2013, 55, 696-701.	0.6	2
69	Raman spectra and structural peculiarities of GaAs nanowires. Journal of Surface Investigation, 2014, 8, 104-110.	0.5	2
70	Ex post manipulation of barriers in InGaAs tunnel injection devices. Applied Physics Letters, 2015, 106, 013104.	3.3	2
71	Dispersion laws of the two-dimensional cavity magnetoexciton-polaritons. Journal of Nanophotonics, 2016, 10, 036006.	1.0	2
72	Spectroscopic study of exciton-exciton interaction (Biexcitons, drops) in semiconducting crystals. Springer Tracts in Modern Physics, 1975, , 106-126.	0.1	1

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73	A cryostat for electron irradiation of crystals and for optical studies. <i>Cryogenics</i> , 1976, 16, 683-684.	1.7	1
74	Formation of the HgI ₂ crystalline phase in the bulk and on the surface of nanocrystalline matrices. <i>Physics of the Solid State</i> , 2002, 44, 1388-1393.	0.6	1
75	Direct observation of localized exciton states in CdS _{1-x} Se _x solid solutions. <i>JETP Letters</i> , 2003, 78, 17-20.	1.4	1
76	Room-temperature 1.5-1.6 Å photoluminescence from InGaAs/GaAs heterostructures grown at low substrate temperature. <i>Semiconductors</i> , 2003, 37, 1406-1410.	0.5	1
77	Spectroscopy of exciton states of InAs quantum molecules. <i>Semiconductors</i> , 2004, 38, 696-701.	0.5	1
78	The effect of misorientation of the GaAs substrate on the properties of InAs quantum dots grown by low-temperature molecular beam epitaxy. <i>Semiconductors</i> , 2006, 40, 587-591.	0.5	1
79	Study of ion diffusion in superionic crystals by EPMA and local CL. <i>Superlattices and Microstructures</i> , 2009, 45, 369-375.	3.1	1
80	Manifestation of metastable cubic modifications in finely dispersed A ₂ B ₆ compounds. <i>Technical Physics Letters</i> , 2010, 36, 240-243.	0.7	1
81	Temperature quenching of spontaneous emission in tunnel-injection nanostructures. <i>Semiconductors</i> , 2015, 49, 1483-1492.	0.5	1
82	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
83	Bound-exciton spectra and radiation defects in A ₂ B ₆ compounds. <i>Journal of Applied Spectroscopy</i> , 1969, 10, 668-672.	0.7	0
84	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
85	Photoreflexion and photoconduction spectra of CdS crystals: Excitons in the electric fields of surface states. <i>Physics of the Solid State</i> , 1998, 40, 806-807.	0.6	0
86	Excitons in the preionization electric field of a Schottky barrier. <i>Physics of the Solid State</i> , 1998, 40, 810-811.	0.6	0
87	Quantum confinement in CdS _x Se _{1-x} spherical nanocrystals in a fluorophosphate glass matrix. <i>Physics of the Solid State</i> , 1999, 41, 1378-1382.	0.6	0
88	Emergence of exciton near-surface localized states in the reflectance spectra of low-Se CdS _{1-x} Se _x crystals. <i>Physics of the Solid State</i> , 1999, 41, 1437-1443.	0.6	0
89	<title>Influence of temperature and hydrostatic pressure on luminescence spectra of InAs/GaSa quantum dots</title>. , 2002, , .		0
90	Morphology of the stabilized natural faces of a CdS _{1-x} Se _x solid solution. <i>Physics of the Solid State</i> , 2006, 48, 631-636.	0.6	0

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91	Title is missing!. Physics-Uspexhi, 2006, 49, 879.	2.2	0
92	INFLUENCE OF HYDROSTATIC PRESSURE ON EXCITON PHOTOLUMINESCENCE SPECTRUM OF EXCITON MOLECULES InAs/GaAs. International Journal of Nanoscience, 2007, 06, 249-252.	0.7	0
93	Resonances related to an array of InAs quantum dots and controlled by an external electric field. Semiconductors, 2007, 41, 197-204.	0.5	0
94	Formation of p-n junctions during solid-state chemical reactions involving superionic crystals. Technical Physics Letters, 2012, 38, 540-543.	0.7	0
95	Stabilization of a spike in excitonic light reflection spectra of CdSe crystals subjected to low-energy electron bombardment. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 390-393.	0.6	0
96	Luminescence of CdS crystals due to near-surface potential fluctuations. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 225-229.	0.6	0
97	Effect of surface scattering of carriers in the photoconductivity spectra of CdS. Semiconductors, 2013, 47, 619-622.	0.5	0
98	Effects of surface adhesion of nonequilibrium charge carriers in the photoconductivity spectra of CdS crystals. Technical Physics, 2013, 58, 1263-1266.	0.7	0
99	Excitonic structure formation in the photoconductivity spectra of CdS crystals at modulated excitation. Semiconductors, 2013, 47, 1153-1156.	0.5	0
100	Mixed excitonâ€“plasmon collective elementary excitations of the Boseâ€“Einstein condensed twoâ€“dimensional magnetoexcitons with motional dipole moments. Physica Status Solidi (B): Basic Research, 2013, 250, 115-127.	1.5	0
101	Thermodynamics of the Ideal Two-Dimensional Magnetoexciton Gas with Linear Dispersion Law. Semiconductors, 2020, 54, 1522-1525.	0.5	0