

Aleksei Yu Serov

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

257
citations

1163117

8
h-index

1125743

13
g-index

66
all docs

66
docs citations

66
times ranked

271
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Nature of Stimulated Emission in ZnO in a Wide Temperature Range. Physics of the Solid State, 2022, 64, 1-5.	0.6	1
2	Hot exciton relaxation in coupled ultra-thin CdTe/ZnTe quantum well structures. Journal of Luminescence, 2021, 230, 117762.	3.1	1
3	Exciton Luminescence of Double CdTe Monolayers in ZnTe Matrix. Physics of the Solid State, 2021, 63, 667.	0.6	0
4	Structural and optical characterization of dilute phosphide planar heterostructures with high nitrogen content on silicon. CrystEngComm, 2020, 22, 283-292.	2.6	8
5	Photoluminescence of Heterostructures with Ultrathin CdTe/ZnTe Quantum Wells. Physics of the Solid State, 2020, 62, 1633-1638.	0.6	0
6	Excitons in CdTe/ZnTe heterostructure with atomically thin CdTe layers. AIP Advances, 2020, 10, 085224.	1.3	3
7	Reflectivity and Photorefectivity Spectra of Structures with Quantum Wells Based on ZnO. Physics of the Solid State, 2020, 62, 2012-2015.	0.6	0
8	Structural and Optical Properties of Self-Catalyzed Axially Heterostructured GaPN/GaP Nanowires Embedded into a Flexible Silicone Membrane. Nanomaterials, 2020, 10, 2110.	4.1	20
9	Photoluminescence of CdTe/ZnTe Heterostructures with Nominal CdTe Layer Thickness from One to Eight Monolayers Grown by Atomic Layer Deposition. Physics of the Solid State, 2020, 62, 1056-1059.	0.6	2
10	GaPN/GaP nanowire-polymer matrix: photoluminescence study. Journal of Physics: Conference Series, 2020, 1697, 012157.	0.4	0
11	On the Nature of the Near-Edge Radiation of ZnO at Room Temperature. Physics of the Solid State, 2020, 62, 2138-2142.	0.6	1
12	Photoluminescence of Cu ₂ O Crystals of Different Origins. Physics of the Solid State, 2019, 61, 2010-2013.	0.6	1
13	Emission of Light by CdMnTe/CdMgTe Heterostructure with Narrow Quantum Wells. Physics of the Solid State, 2019, 61, 1475-1477.	0.6	1
14	Exciton Light Emission of CdTe/ZnTe Heterostructures with Double Ultrathin Narrow-Gap Layers. Physics of the Solid State, 2019, 61, 414-417.	0.6	1
15	Exciton Spectra and Energy Transfer in CdTe/ZnTe Double Quantum Wells Grown by Atomic-Layer Epitaxy. Semiconductors, 2019, 53, 2060-2063.	0.5	1
16	Optical properties of CdTe/ZnTe structures with thin CdTe layers. Journal of Physics: Conference Series, 2019, 1400, 055046.	0.4	0
17	Structal and Optical Properties Algaas Nanowires Grown by Mbe on Si(111) Substrate. Journal of Physics: Conference Series, 2019, 1410, 012062.	0.4	0
18	Optical Properties of GaN Nanowires Grown by MBE on SiC/Si(111) Hybrid Substrate. Semiconductors, 2018, 52, 602-604.	0.5	0

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19	Luminescence of ZnMnTe/ZnMgTe Heterostructures with Monolayer Manganese Inclusions in ZnTe Quantum Wells and Its Behavior in a Magnetic Field. Semiconductors, 2018, 52, 514-518.	0.5	2
20	Formation of Cu ₂ O and ZnO Crystal Layers by Magnetron Assisted Sputtering and Their Optical Characterization. Semiconductors, 2018, 52, 383-389.	0.5	4
21	Photoinduced Effects in the ZnO Luminescence Spectra. Physics of the Solid State, 2018, 60, 352-356.	0.6	4
22	Excitons in ZnO Quantum Wells. Physics of the Solid State, 2018, 60, 2628-2633.	0.6	5
23	Structural and Optical Properties of Wurtzite AlGaAs Nanowires Grown by MBE on Si(111) Substrate. Semiconductors, 2018, 52, 2146-2148.	0.5	3
24	Optical Spectra of GaSe and GaS Crystals of Different Thicknesses. Physics of the Solid State, 2018, 60, 1223-1225.	0.6	3
25	Nanoscale Cu ₂ O films: Radio-frequency magnetron sputtering and structural and optical studies. Semiconductors, 2017, 51, 110-114.	0.5	9
26	Optical properties of bulk gallium nitride single crystals grown by chloride-hydride vapor-phase epitaxy. Physics of the Solid State, 2017, 59, 2418-2422.	0.6	1
27	Temperature quenching of intracenter luminescence of Mn ²⁺ ions in diluted magnetic semiconductors. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2016, 121, 507-510.	0.6	1
28	Light emission from CdTe based quantum well structures with embedded ultrathin MnTe layers. Journal of Luminescence, 2016, 176, 331-334.	3.1	0
29	Manifestation of oxygen desorption in photoluminescence spectra of ZnO. Physics of the Solid State, 2016, 58, 1767-1771.	0.6	12
30	Optical properties of zinc telluride with cadmium telluride submonolayers. Physics of the Solid State, 2016, 58, 2109-2112.	0.6	3
31	Optical properties of ZnTe epilayers with submonolayer planar narrow gap inclusions. AIP Conference Proceedings, 2016, , .	0.4	0
32	Photoluminescence spectra of CdTe multi-quantum wells sandwiched by ultrathin MnTe layers and their temperature dependence. Journal of Luminescence, 2016, 169, 665-668.	3.1	1
33	Photoluminescence Spectra of thin ZnO films grown by ALD technology. Physics of the Solid State, 2015, 57, 1865-1869.	0.6	4
34	Exciton Photoluminescence of ZnO Thin Films Grown by ALD-Technique. Physics Procedia, 2015, 76, 37-41.	1.2	6
35	Temperature properties of intracenter luminescence of Mn ²⁺ ions in diluted magnetic semiconductors and related heterostructures. Physics of the Solid State, 2015, 57, 2179-2183.	0.6	0
36	Optical and electrical properties of GaN: Si-based microstructures with a wide range of doping levels. Physics of the Solid State, 2015, 57, 787-793.	0.6	11

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37	Optical properties of ZnMnTe/ZnMgTe quantum-well nanostructures. Physics of the Solid State, 2015, 57, 1831-1836.	0.6	2
38	Optical investigation of the vertical diffusion of manganese in planar structures based on CdTe and Cd _{1-x} Mg _x Te with ultrathin MnTe layers. Physics of the Solid State, 2014, 56, 2149-2154.	0.6	6
39	Light emission from tin-dioxide crystals. Semiconductors, 2014, 48, 442-445.	0.5	3
40	Exciton spectra and electrical conductivity of epitaxial silicon-doped GaN layers. Physics of the Solid State, 2013, 55, 296-300.	0.6	7
41	Luminescence in ZnMnTe/ZnMgTe and CdMnTe/CdMgTe structures with different parameters of quantum wells. Semiconductors, 2013, 47, 45-49.	0.5	1
42	Luminescence of CdMnTe/CdMgTe structures with periodically arranged narrow-gap inclusions. Semiconductors, 2012, 46, 637-640.	0.5	1
43	Magnetoluminescence of CdTe/MnTe/CdMgTe heterostructures with ultrathin MnTe layers. Semiconductors, 2011, 45, 1301-1305.	0.5	7
44	Effect of a magnetic field on energy transfer of band states to the Mn ²⁺ 3d shell in the CdMgTe matrix with ultrathin CdMnTe layers. Physics of the Solid State, 2010, 52, 27-31.	0.6	3
45	Temperature properties of exciton luminescence from CdTe quantum wells with different thicknesses in the CdTe/CdMnTe structure. Physics of the Solid State, 2010, 52, 2181-2185.	0.6	0
46	10.1007/s11451-008-2021-0. , 2010, 50, 349.		0
47	Radiative recombination in the CdMgTe matrix with ultrathin narrow-gap CdMnTe layers. Semiconductors, 2009, 43, 57-62.	0.5	1
48	Localization of exciton excitation in planar structures Cd _{0.9} Mn _{0.1} Te/Cd _{0.7} Mg _{0.3} Te. Physics of the Solid State, 2009, 51, 2401-2404.	0.6	0
49	Luminescence of CdMgTe with CdMnTe ultrathin nanolayers. Physics of the Solid State, 2008, 50, 349-352.	0.6	1
50	Mn ²⁺ and band exciton luminescence in ZnMnTe/ZnMgTe quantum well structures. Physica Status Solidi (B): Basic Research, 2007, 244, 3265-3270.	1.5	8
51	Impurity absorption and luminescence of CuGaSe ₂ crystals. Physics of the Solid State, 2007, 49, 23-27.	0.6	4
52	Exciton and intracenter radiative recombination in ZnMnTe and CdMnTe quantum wells with optically active manganese ions. Physics of the Solid State, 2007, 49, 1175-1183.	0.6	3
53	Radiative recombination in Zn _{1-x} Mn _x Te/Zn _{0.59} Mg _{0.41} Te quantum well structures: Exciton emission and intracenter luminescence. Semiconductors, 2006, 40, 67-71.	0.5	1
54	Exciton and Intracenter Luminescence in Cd _[sub 0.6] Mn _[sub 0.4] Te•Cd _[sub 0.5] Mg _[sub 0.5] Te Quantum-Well Structures. Physics of the Solid State, 2005, 47, 2162.	0.6	5

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55	New observations on the luminescence decay lifetime of Mn ²⁺ in ZnS:Mn ²⁺ nanoparticles. Journal of Chemical Physics, 2005, 123, 124707.	3.0	51
56	Optical properties of Cd _{0.6} Mn _{0.4} Te/Cd _{0.5} Mg _{0.5} Te quantum-well structures. Physics of the Solid State, 2004, 46, 1776-1780.	0.6	2
57	Mn ²⁺ 3d luminescence kinetics in Zn _{1-x} MnxSe. Physics of the Solid State, 2003, 45, 1435-1439.	0.6	2
58	Relaxation Dynamics of Mn ²⁺ Intraion Excitation in Cd _{0.5} Mn _{0.5} Te: Dependence on the Optical Pumping Level. Physics of the Solid State, 2001, 43, 1626.	0.6	2
59	Nonlinear properties of intraionic luminescence of Mn ²⁺ in dilute magnetic semiconductors CdMnTe and CdMnMgTe. Journal of Crystal Growth, 2000, 214-215, 391-394.	1.5	12
60	Intracenter luminescence of Mn ²⁺ in Cd _{1-x} MnxTe and Cd _{1-x} MnxMgyTe under intense optical pumping. Physics of the Solid State, 2000, 42, 836-840.	0.6	5
61	Optical properties of a polymer host matrix containing mercuric iodide microcrystals. Physics of the Solid State, 2000, 42, 1832-1834.	0.6	1
62	Rapid luminescence saturation of the Mn ²⁺ 3d shell in the Cd _{1-x} MnxTe dilute magnetic semiconductor with a high manganese concentration. Physics of the Solid State, 1999, 41, 41-44.	0.6	5
63	Optical spectra of microcrystals of the layered semiconductor PbI ₂ grown in glass matrices. Semiconductors, 1998, 32, 136-139.	0.5	0
64	Optical properties of new diluted magnetic semiconductor Cd _{1-x} MnxMgyTe. Solid State Communications, 1993, 87, 635-637.	1.9	6
65	The magnetic polaron effect in diluted magnetic semiconductor Cd _{1-x} MnxTe with high concentration of manganese. Solid State Communications, 1993, 85, 859-862.	1.9	9