

Aleksei Yu Serov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Manifestation of oxygen desorption in photoluminescence spectra of ZnO. Physics of the Solid State, 2016, 58, 1767-1771.	0.6	12
5	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
6	The magnetic polaron effect in diluted magnetic semiconductor Cd _{1-x} Mn _x Te with high concentration of manganese. Solid State Communications, 1993, 85, 859-862.	1.9	9
7	Nanoscale Cu ₂ O films: Radio-frequency magnetron sputtering and structural and optical studies. Semiconductors, 2017, 51, 110-114.	0.5	9
8	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
9	Structural and optical characterization of dilute phosphide planar heterostructures with high nitrogen content on silicon. CrystEngComm, 2020, 22, 283-292.	2.6	8
10	Magnetoluminescence of CdTe/MnTe/CdMgTe heterostructures with ultrathin MnTe layers. Semiconductors, 2011, 45, 1301-1305.	0.5	7
11	Exciton spectra and electrical conductivity of epitaxial silicon-doped GaN layers. Physics of the Solid State, 2013, 55, 296-300.	0.6	7
12	Optical properties of new diluted magnetic semiconductor Cd _{1-x} Mn _x Mg _y Te. Solid State Communications, 1993, 87, 635-637.	1.9	6
13	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
14	Exciton Photoluminescence of ZnO Thin Films Grown by ALD-Technique. Physics Procedia, 2015, 76, 37-41.	1.2	6
15	Rapid luminescence saturation of the Mn ²⁺ 3d shell in the Cd _{1-x} Mn _x Te dilute magnetic semiconductor with a high manganese concentration. Physics of the Solid State, 1999, 41, 41-44.	0.6	5
16	Intracenter luminescence of Mn ²⁺ in Cd _{1-x} Mn _x Te and Cd _{1-x} Mn _x Mg _y Te under intense optical pumping. Physics of the Solid State, 2000, 42, 836-840.	0.6	5
17	Exciton and Intracenter Luminescence in Cd _{0.6} Mn _{0.4} Te/Cd _{0.5} Mg _{0.5} Te Quantum-Well Structures. Physics of the Solid State, 2005, 47, 2162.	0.6	5
18	Excitons in ZnO Quantum Wells. Physics of the Solid State, 2018, 60, 2628-2633.	0.6	5

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19	Impurity absorption and luminescence of CuGaSe ₂ crystals. <i>Physics of the Solid State</i> , 2007, 49, 23-27.	0.6	4
20	Photoluminescence Spectra of thin ZnO films grown by ALD technology. <i>Physics of the Solid State</i> , 2015, 57, 1865-1869.	0.6	4
21	Formation of Cu ₂ O and ZnO Crystal Layers by Magnetron Assisted Sputtering and Their Optical Characterization. <i>Semiconductors</i> , 2018, 52, 383-389.	0.5	4
22	Photoinduced Effects in the ZnO Luminescence Spectra. <i>Physics of the Solid State</i> , 2018, 60, 352-356.	0.6	4
23	Exciton and intracenter radiative recombination in ZnMnTe and CdMnTe quantum wells with optically active manganese ions. <i>Physics of the Solid State</i> , 2007, 49, 1175-1183.	0.6	3
24	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. <i>Physics of the Solid State</i> , 2010, 52, 27-31.	0.6	3
25	Light emission from tin-dioxide crystals. <i>Semiconductors</i> , 2014, 48, 442-445.	0.5	3
26	Optical properties of zinc telluride with cadmium telluride submonolayers. <i>Physics of the Solid State</i> , 2016, 58, 2109-2112.	0.6	3
27	Structural and Optical Properties of Wurtzite AlGaAs Nanowires Grown by MBE on Si(111) Substrate. <i>Semiconductors</i> , 2018, 52, 2146-2148.	0.5	3
28	Optical Spectra of GaSe and GaS Crystals of Different Thicknesses. <i>Physics of the Solid State</i> , 2018, 60, 1223-1225.	0.6	3
29	Excitons in CdTe/ZnTe heterostructure with atomically thin CdTe layers. <i>AIP Advances</i> , 2020, 10, 085224.	1.3	3
30	Relaxation Dynamics of Mn ²⁺ Intraion Excitation in Cd _{0.5} Mn _{0.5} Te: Dependence on the Optical Pumping Level. <i>Physics of the Solid State</i> , 2001, 43, 1626.	0.6	2
31	Mn ²⁺ 3d luminescence kinetics in Zn ^{1-x} MnxSe. <i>Physics of the Solid State</i> , 2003, 45, 1435-1439.	0.6	2
32	Optical properties of Cd _{0.6} Mn _{0.4} Te/Cd _{0.5} Mg _{0.5} Te quantum-well structures. <i>Physics of the Solid State</i> , 2004, 46, 1776-1780.	0.6	2
33	Optical properties of ZnMnTe/ZnMgTe quantum-well nanostructures. <i>Physics of the Solid State</i> , 2015, 57, 1831-1836.	0.6	2
34	Luminescence of ZnMnTe/ZnMgTe Heterostructures with Monolayer Manganese Inclusions in ZnTe Quantum Wells and Its Behavior in a Magnetic Field. <i>Semiconductors</i> , 2018, 52, 514-518.	0.5	2
35	Photoluminescence of CdTe/ZnTe Heterostructures with Nominal CdTe Layer Thickness from One to Eight Monolayers Grown by Atomic Layer Deposition. <i>Physics of the Solid State</i> , 2020, 62, 1056-1059.	0.6	2
36	Optical properties of a polymer host matrix containing mercuric iodide microcrystals. <i>Physics of the Solid State</i> , 2000, 42, 1832-1834.	0.6	1

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37	Radiative recombination in Zn _{1-x} Mn _x Te/Zn _{0.59} Mg _{0.41} Te quantum well structures: Exciton emission and intracenter luminescence. <i>Semiconductors</i> , 2006, 40, 67-71.	0.5	1
38	Luminescence of CdMgTe with CdMnTe ultrathin nanolayers. <i>Physics of the Solid State</i> , 2008, 50, 349-352.	0.6	1
39	Radiative recombination in the CdMgTe matrix with ultrathin narrow-gap CdMnTe layers. <i>Semiconductors</i> , 2009, 43, 57-62.	0.5	1
40	Luminescence of CdMnTe/CdMgTe structures with periodically arranged narrow-gap inclusions. <i>Semiconductors</i> , 2012, 46, 637-640.	0.5	1
41	Luminescence in ZnMnTe/ZnMgTe and CdMnTe/CdMgTe structures with different parameters of quantum wells. <i>Semiconductors</i> , 2013, 47, 45-49.	0.5	1
42	Temperature quenching of intracenter luminescence of Mn ²⁺ ions in diluted magnetic semiconductors. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016, 121, 507-510.	0.6	1
43	Photoluminescence spectra of CdTe multi-quantum wells sandwiched by ultrathin MnTe layers and their temperature dependence. <i>Journal of Luminescence</i> , 2016, 169, 665-668.	3.1	1
44	Optical properties of bulk gallium nitride single crystals grown by chloride-hydride vapor-phase epitaxy. <i>Physics of the Solid State</i> , 2017, 59, 2418-2422.	0.6	1
45	Photoluminescence of Cu ₂ O Crystals of Different Origins. <i>Physics of the Solid State</i> , 2019, 61, 2010-2013.	0.6	1
46	Emission of Light by CdMnTe/CdMgTe Heterostructure with Narrow Quantum Wells. <i>Physics of the Solid State</i> , 2019, 61, 1475-1477.	0.6	1
47	Exciton Light Emission of CdTe/ZnTe Heterostructures with Double Ultrathin Narrow-Gap Layers. <i>Physics of the Solid State</i> , 2019, 61, 414-417.	0.6	1
48	Exciton Spectra and Energy Transfer in CdTe/ZnTe Double Quantum Wells Grown by Atomic-Layer Epitaxy. <i>Semiconductors</i> , 2019, 53, 2060-2063.	0.5	1
49	Hot exciton relaxation in coupled ultra-thin CdTe/ZnTe quantum well structures. <i>Journal of Luminescence</i> , 2021, 230, 117762.	3.1	1
50	On the Nature of the Near-Edge Radiation of ZnO at Room Temperature. <i>Physics of the Solid State</i> , 2020, 62, 2138-2142.	0.6	1
51	On the Nature of Stimulated Emission in ZnO in a Wide Temperature Range. <i>Physics of the Solid State</i> , 2022, 64, 1-5.	0.6	1
52	Optical spectra of microcrystals of the layered semiconductor PbI ₂ grown in glass matrices. <i>Semiconductors</i> , 1998, 32, 136-139.	0.5	0
53	Localization of exciton excitation in planar structures Cd _{0.9} Mn _{0.1} Te/Cd _{0.7} Mg _{0.3} Te. <i>Physics of the Solid State</i> , 2009, 51, 2401-2404.	0.6	0
54	Temperature properties of exciton luminescence from CdTe quantum wells with different thicknesses in the CdTe/CdMnTe structure. <i>Physics of the Solid State</i> , 2010, 52, 2181-2185.	0.6	0

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55	Temperature properties of intracenter luminescence of Mn ²⁺ ions in diluted magnetic semiconductors and related heterostructures. <i>Physics of the Solid State</i> , 2015, 57, 2179-2183.	0.6	0
56	Light emission from CdTe based quantum well structures with embedded ultrathin MnTe layers. <i>Journal of Luminescence</i> , 2016, 176, 331-334.	3.1	0
57	Optical properties of ZnTe epilayers with submonolayer planar narrow gap inclusions. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
58	Optical Properties of GaN Nanowires Grown by MBE on SiC/Si(111) Hybrid Substrate. <i>Semiconductors</i> , 2018, 52, 602-604.	0.5	0
59	Optical properties of CdTe/ZnTe structures with thin CdTe layers. <i>Journal of Physics: Conference Series</i> , 2019, 1400, 055046.	0.4	0
60	Structal and Optical Properties Algaas Nanowires Grown by Mbe on Si(111) Substrate. <i>Journal of Physics: Conference Series</i> , 2019, 1410, 012062.	0.4	0
61	Photoluminescence of Heterostructures with Ultrathin CdTe/ZnTe Quantum Wells. <i>Physics of the Solid State</i> , 2020, 62, 1633-1638.	0.6	0
62	Reflectivity and Photorefectivity Spectra of Structures with Quantum Wells Based on ZnO. <i>Physics of the Solid State</i> , 2020, 62, 2012-2015.	0.6	0
63	10.1007/s11451-008-2021-0. , 2010, 50, 349.		0
64	GaPN/GaP nanowire-polymer matrix: photoluminescence study. <i>Journal of Physics: Conference Series</i> , 2020, 1697, 012157.	0.4	0
65	Exciton Luminescence of Double CdTe Monolayers in ZnTe Matrix. <i>Physics of the Solid State</i> , 2021, 63, 667.	0.6	0