

Alexey Ril

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Formation of the $\hat{\pm}$ -phase and study of the solubility of Mn in Cd ₃ As ₂ . Journal of Alloys and Compounds, 2022, 892, 162082.	2.8	5
2	Pressure-induced magnetic transformations in Cd ₃ As ₂ +MnAs hybrid composite. Applied Physics Letters, 2022, 120, .	1.5	1
3	Structural Features of Textured Zinc-Oxide Films Obtained by the Ion-Beam Sputtering Method. Semiconductors, 2021, 55, 308-314.	0.2	2
4	Microstructure of BaFe ₁₂ O ₁₉ Nanofilms Produced on Silicon Substrates with Various Amorphous Sublayers. Russian Journal of Inorganic Chemistry, 2021, 66, 603-607.	0.3	5
5	Thickness effect on structural properties of post annealed barium hexaferrite films deposited by ion beam sputtering. Journal of Magnetism and Magnetic Materials, 2021, 527, 167786.	1.0	4
6	Resistivity superconducting transition in single-crystalline Cd _{0.95} Ni _{0.05} Sb system consisting of non-superconducting CdSb and NiSb phases. Chinese Journal of Physics, 2021, 72, 223-228.	2.0	0
7	Influence of the deposition interruption on the texture degree of barium hexaferrite BaFe ₁₂ O ₁₉ films. Superlattices and Microstructures, 2021, 158, 107005.	1.4	1
8	Electronic, magnetic and magnetotransport properties of Mn-doped Dirac semimetal Cd ₃ As ₂ . Acta Materialia, 2021, 219, 117249.	3.8	8
9	Magnetometric Studies of Composite Alloys of the Cd ₃ As ₂ -MnAs System. Russian Journal of Inorganic Chemistry, 2021, 66, 1544-1548.	0.3	1
10	Spin-Polarized Electric Current in Cd _{48.6} Mn _{11.4} As ₄₀ Nanocomposite. Physics of the Solid State, 2021, 63, 644.	0.2	2
11	Synthesis of bulk crystals and thin films of the ferromagnetic MnSb. Kondensirovannye Sredy Mezhfaznye Granitsy, 2021, 23, 387-395.	0.1	0
12	Electrical Resistance and Magnetoresistance of Cd ₃ As ₂ -30 mol % MnAs under High Pressures. Physics of the Solid State, 2021, 63, 1301-1304.	0.2	1
13	Cadmium Arsenides: Structure, Synthesis of Bulk and Film Crystals, Magnetic and Electrical Properties (Review). Russian Journal of Inorganic Chemistry, 2021, 66, 2005-2016.	0.3	5
14	Textured Barium Hexaferrite Films on Silicon Substrates with Aluminum Oxide and Titanium Oxide Barrier Layers. Russian Journal of Inorganic Chemistry, 2021, 66, 1802-1810.	0.3	1
15	Synthesis of Ferromagnetic Alloys Semiconductor-Ferromagnet in the CdAs ₂ -MnAs System. Russian Journal of Inorganic Chemistry, 2020, 65, 1219-1225.	0.3	3
16	Superconductivity in Thin Films of the Dirac Semimetal Cd ₃ As ₂ . Physics of the Solid State, 2020, 62, 419-422.	0.2	4
17	Electric and Galvanomagnetic Properties of Cd ₃ As ₂ -20 mol % MnAs Composite under High Pressure. Physics of the Solid State, 2020, 62, 942-946.	0.2	4
18	Superconductivity and Shubnikov - de Haas effect in polycrystalline Cd ₃ As ₂ thin films. Scientific Reports, 2020, 10, 4601.	1.6	17

#	ARTICLE	IF	CITATIONS
19	Al ²⁺ Mn Hard Magnetic Alloys as Promising Materials for Permanent Magnets (Review). Russian Journal of Inorganic Chemistry, 2020, 65, 2007-2019.	0.3	7
20	Growth of Thin Cadmium Arsenide Films by Magnetron Sputtering and Their Structure. Inorganic Materials, 2019, 55, 879-886.	0.2	8
21	Quantum Corrections and Magnetotransport in 3D Dirac Semimetal Cd ₃ As ₂ Films. Semiconductors, 2019, 53, 1439-1444.	0.2	7
22	Effect of Hydrostatic Pressures of up to 9 GPa on the Galvanomagnetic Properties of Cd ₃ As ₂ (20 mol % MnAs) Alloy in a Transverse Magnetic Field. Inorganic Materials, 2019, 55, 873-878.	0.2	7
23	AlGaN optimization for photodetectors. Optical and Quantum Electronics, 2019, 51, 1.	1.5	6
24	Particle Size Effects on Calorimetric and Magnetic Properties of the Ferromagnetic Phase in the Eutectic Composite Alloy of ZnSnAs ₂ -MnAs System. Russian Journal of Inorganic Chemistry, 2019, 64, 1494-1498.	0.3	8
25	AlGaP heterostructures and LEDs optimization. Procedia Manufacturing, 2019, 37, 195-200.	1.9	0
26	Phase diagram of ZnAs ₂ -MnAs system. Mendeleev Communications, 2018, 28, 219-221.	0.6	1
27	Aluminum Antimonide Thin Films: Structure and Properties. Russian Journal of Inorganic Chemistry, 2018, 63, 1117-1121.	0.3	3
28	Hall effect, electrical and magnetic resistance in Cd ₃ As ₂ + MnAs (30%) composite at high pressures. Russian Journal of Inorganic Chemistry, 2017, 62, 90-93.	0.3	7
29	Phase equilibria in the CdAs ₂ -Cd ₃ As ₂ -MnAs ternary system. Russian Journal of Inorganic Chemistry, 2017, 62, 976-986.	0.3	11
30	Phase diagram of the ZnSiAs ₂ -MnAs system. Journal of Crystal Growth, 2017, 468, 683-687.	0.7	11
31	Low-field-enhanced unusual hysteresis produced by metamagnetism of the MnP clusters in the insulating Cd ₃ As ₂ matrix under pressure. Physical Review B, 2016, 94, 040407.		6
32	Galvanomagnetic Properties of Cd ₃ As ₂ -MnAs (MnAs -) Composites, 0, 28, 3-8.	0.8	1