

Sergey Marenkin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

565
citations

15
h-index

18
g-index

120
ext. papers

634
ext. citations

1.1
avg, IF

3.41
L-index

#	Paper	IF	Citations
116	Formation of the β -phase and study of the solubility of Mn in Cd ₃ As ₂ . <i>Journal of Alloys and Compounds</i> , 2022 , 892, 162082	5.7	2
115	Pressure-induced magnetic transformations in Cd ₃ As ₂ +MnAs hybrid composite. <i>Applied Physics Letters</i> , 2022 , 120, 202406	3.4	
114	Spin-Polarized Electric Current in Cd _{48.6} Mn _{11.4} As ₄₀ Nanocomposite. <i>Physics of the Solid State</i> , 2021 , 63, 644	0.8	
113	Magnetometric Studies of Composite Alloys of the Cd ₃ As ₂ /MnAs System. <i>Russian Journal of Inorganic Chemistry</i> , 2021 , 66, 1544-1548	1.5	0
112	Electronic, magnetic and magnetotransport properties of Mn-doped Dirac semimetal Cd ₃ As ₂ . <i>Acta Materialia</i> , 2021 , 219, 117249	8.4	2
111	Magnetic Anisotropy of Needlelike Single-Crystal MnSb Inclusions in an InSb Matrix. <i>Technical Physics Letters</i> , 2021 , 47, 490-493	0.7	0
110	Electrical Resistance and Magnetoresistance of Cd ₃ As ₂ /0 mol % MnAs under High Pressures. <i>Physics of the Solid State</i> , 2021 , 63, 1301-1304	0.8	
109	Cadmium Arsenides: Structure, Synthesis of Bulk and Film Crystals, Magnetic and Electrical Properties (Review). <i>Russian Journal of Inorganic Chemistry</i> , 2021 , 66, 2005-2016	1.5	0
108	Superconductivity in Thin Films of the Dirac Semimetal Cd ₃ As ₂ . <i>Physics of the Solid State</i> , 2020 , 62, 419-428		1
107	Al/Mn Hard Magnetic Alloys as Promising Materials for Permanent Magnets (Review). <i>Russian Journal of Inorganic Chemistry</i> , 2020 , 65, 2007-2019	1.5	1
106	The Synthesis and Investigation of the Electrical Properties of Tricadmium Diarsenide with MnAs Nanogranules. <i>Technical Physics</i> , 2020 , 65, 1083-1086	0.5	1
105	Synthesis of Ferromagnetic Alloys Semiconductor/Ferromagnet in the CdAs ₂ /MnAs System. <i>Russian Journal of Inorganic Chemistry</i> , 2020 , 65, 1219-1225	1.5	1
104	Physicochemical Principles Underlying the Synthesis of Granular Semiconductor/Ferromagnet Magnetic Structures Exemplified by AlI/GeAs ₂ (AlI = Zn, Cd) Materials. <i>Inorganic Materials</i> , 2019 , 55, 865-872	0.9	3
103	Effect of Hydrostatic Pressures of up to 9 GPa on the Galvanomagnetic Properties of Cd ₃ As ₂ /MnAs (20 mol % MnAs) Alloy in a Transverse Magnetic Field. <i>Inorganic Materials</i> , 2019 , 55, 873-878	0.9	3
102	Preparation of Shaped Indium Phosphide Surfaces for Edge-Emitting Devices. <i>Inorganic Materials</i> , 2019 , 55, 125-128	0.9	
101	Fabrication of ZnSe/InP Heterojunctions on Flat and Shaped Surfaces of InP Laser Crystals. <i>Inorganic Materials</i> , 2019 , 55, 903-907	0.9	
100	Growth of Thin Cadmium Arsenide Films by Magnetron Sputtering and Their Structure. <i>Inorganic Materials</i> , 2019 , 55, 879-886	0.9	5

99	Quantum Corrections and Magnetotransport in 3D Dirac Semimetal Cd ₃ MnxAs ₂ Films. <i>Semiconductors</i> , 2019 , 53, 1439-1444	0.7	5
98	Particle Size Effects on Calorimetric and Magnetic Properties of the Ferromagnetic Phase in the Eutectic Composite Alloy of ZnSnAs ₂ /MnAs System. <i>Russian Journal of Inorganic Chemistry</i> , 2019 , 64, 1494-1498	1.5	5
97	Thermal Conductivity of Tetragonal Cadmium Diphosphide Crystals. <i>Inorganic Materials</i> , 2018 , 54, 237-239	0.9	3
96	Manganese Pnictides MnP, MnAs, and MnSb are Ferromagnetic Semimetals: Preparation, Structure, and Properties (a Survey). <i>Russian Journal of Inorganic Chemistry</i> , 2018 , 63, 1753-1763	1.5	8
95	Effect of Particle Size on the Magnetostructural Transformation of a Manganese Monoarsenide-Based Phase in the ZnGeAs ₂ /MnAs System. <i>Inorganic Materials</i> , 2018 , 54, 1187-1192	0.9	1
94	Aluminum Antimonide Thin Films: Structure and Properties. <i>Russian Journal of Inorganic Chemistry</i> , 2018 , 63, 1117-1121	1.5	3
93	Ferromagnetic-to-Paramagnetic Phase Transition of MnAs Studied by Calorimetry and Magnetic Measurements. <i>Inorganic Materials</i> , 2018 , 54, 863-867	0.9	4
92	Hall effect, electrical and magnetic resistance in Cd ₃ As ₂ + MnAs (30%) composite at high pressures. <i>Russian Journal of Inorganic Chemistry</i> , 2017 , 62, 90-93	1.5	5
91	Phase equilibria in the CdAs ₂ /Cd ₃ As ₂ /MnAs ternary system. <i>Russian Journal of Inorganic Chemistry</i> , 2017 , 62, 976-986	1.5	6
90	Controlling the phase composition of cadmium sulfide films during pulsed laser deposition. <i>Inorganic Materials</i> , 2017 , 53, 1120-1125	0.9	2
89	Effect of the cooling rate on the phase composition of crystallized CdGeAs ₂ melts. <i>Russian Journal of Inorganic Chemistry</i> , 2017 , 62, 1645-1651	1.5	2
88	Magnetotransport effects in granular Cd ₃ As ₂ + MnAs structures at high pressures. <i>Inorganic Materials</i> , 2016 , 52, 357-360	0.9	5
87	Growth of eutectic composites in the InSb/MnSb system. <i>Inorganic Materials</i> , 2016 , 52, 268-273	0.9	7
86	Phase equilibria in the ZnGeAs ₂ /MnAs system. <i>Russian Journal of Inorganic Chemistry</i> , 2016 , 61, 103-108	1.5	2
85	Magnetoresistance of the p-(InSb + MnSb)/n-InSb diode structure. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	1
84	Growth and physicochemical properties of Zn ₃ As ₂ + MnAs magnetic composite films. <i>Inorganic Materials</i> , 2015 , 51, 754-758	0.9	1
83	Resistivity and bulk compressibility of manganese-doped ZnGeAs ₂ at hydrostatic pressures of up to 9 GPa. <i>Inorganic Materials</i> , 2015 , 51, 299-301	0.9	
82	Manufacture of magnetic granular structures in semiconductor-ferromagnet systems. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 295-300	1.5	39

81	Phase equilibria in the ZnGeAs ₂ -CdGeAs ₂ system. <i>Russian Journal of Inorganic Chemistry</i> , 2014 , 59, 126-129		1
80	Hall effect in a magnetogranulated structure of a semiconductor-ferromagnetic system at high pressures. <i>Inorganic Materials</i> , 2014 , 50, 647-650	0.9	
79	Growth of magnetic eutectic GaSb-MnSb films by pulsed laser deposition. <i>Inorganic Materials</i> , 2014 , 50, 897-902	0.9	20
78	Magnetic and electrical properties of Cd ₃ As ₂ + MnAs composite. <i>Russian Journal of Inorganic Chemistry</i> , 2014 , 59, 355-359	1.5	16
77	Some aspects of the chemical bonding in antimony. <i>Inorganic Materials</i> , 2013 , 49, 766-769	0.9	1
76	Phase equilibria and electrical and magnetic properties of a eutectic in the GaSb-MnSb system. <i>Russian Journal of Inorganic Chemistry</i> , 2013 , 58, 1324-1329	1.5	4
75	Structural and magnetic properties of In _{1-x} Mn _x Sb: Effect of Mn complexes and MnSb nanoprecipitates. <i>Journal of Applied Physics</i> , 2013 , 113, 083905	2.5	21
74	Pressure and temperature dependences in p-ZnAs ₂ at high pressures. <i>Russian Journal of Inorganic Chemistry</i> , 2013 , 58, 350-353	1.5	1
73	Magnetic and electrical properties of Zn ₃ P ₂ + MnP materials. <i>Inorganic Materials</i> , 2013 , 49, 545-549	0.9	6
72	Specifics of chemical bonding in zinc crystals. <i>Russian Journal of Inorganic Chemistry</i> , 2012 , 57, 538-543	1.5	
71	Charge and magnetization transport in Cd _{0.81} Mn _{0.19} GeP ₂ dilute magnetic semiconductor under high pressures. <i>Russian Journal of Inorganic Chemistry</i> , 2012 , 57, 987-990	1.5	1
70	Electrical and magnetic properties of the diluted magnetic semiconductors Cd _{1-x} Mn _x GeP ₂ and Cd _{1-x} Mn _x GeAs ₂ at high pressures. <i>Inorganic Materials</i> , 2012 , 48, 872-876	0.9	3
69	Electrical properties of n-Cd _{1-x} Co _x GeAs ₂ (x = 0.05-0.15) at high pressures. <i>Inorganic Materials</i> , 2012 , 48, 1070-1074	0.9	
68	Chemical bonding in cadmium. <i>Inorganic Materials</i> , 2011 , 47, 952-956	0.9	
67	High-pressure volume magnetostriction in the diluted magnetic semiconductor Cd _{1-x} Mn _x GeAs ₂ (x = 0.06-0.3). <i>Inorganic Materials</i> , 2011 , 47, 1171-1173	0.9	1
66	Magnetic properties of oriented p-Cd _{0.947} Mn _{0.053} GeAs ₂ single crystals at pressures of up to 7 GPa. <i>Inorganic Materials</i> , 2011 , 47, 1295-1297	0.9	
65	Magnetic properties of dilute magnetic semiconductor Cd _{0.82} Mn _{0.18} GeAs ₂ under high pressures. <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 924-927	1.5	2
64	Synthesis and magnetic properties of the InSb-MnSb eutectic. <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 1951-1956	1.5	20

63	Electrical properties of p-Zn _{1-x} Cd _x GeAs ₂ <Mn>. <i>Inorganic Materials</i> , 2010 , 46, 449-451	0.9	
62	Pressure, temperature, and magnetic-field effects on the transport properties of Cd _{0.7} Mn _{0.3} GeAs ₂ . <i>Inorganic Materials</i> , 2010 , 46, 571-573	0.9	3
61	CdSb, ZnSb, and Cd _x Zn _{1-x} Sb low-symmetry crystals: Chemical bonding and technological aspects. <i>Inorganic Materials</i> , 2010 , 46, 574-580	0.9	8
60	High-pressure magnetic phase transition and galvanomagnetic effects in the high-temperature ferromagnet p-Cd _{0.7} Mn _{0.3} GeAs ₂ . <i>Inorganic Materials</i> , 2010 , 46, 919-923	0.9	2
59	Structural defects and band-structure parameters of CdAs ₂ , ZnAs ₂ , Cd _{1-x} Zn _x As ₂ , and Zn _{1-x} Cd _x As ₂ single crystals. <i>Inorganic Materials</i> , 2010 , 46, 1001-1006	0.9	1
58	New ferromagnetics based on manganese-alloyed chalcopyrites AIBIVC V2. <i>Inorganic Materials</i> , 2010 , 46, 1421-1436	0.9	21
57	Pressure-induced metamagnetic transition in the Cd _{0.7} Mn _{0.3} GeAs ₂ ferromagnetic semiconductor. <i>JETP Letters</i> , 2010 , 91, 478-480	1.2	7
56	Physicochemical foundations of synthesis of new ferromagnets from chalcopyrites AIBIVC V2. <i>Russian Journal of Inorganic Chemistry</i> , 2010 , 55, 1762-1773	1.5	18
55	The high-pressure-induced spin-reorientation transition in a ferromagnetic semiconductor Cd _{0.7} Mn _{0.3} GeAs ₂ . <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010 , 74, 1107-1108	0.4	
54	Manganese-doped CdGeAs ₂ , ZnGeAs ₂ and ZnSiAs ₂ chalcopyrites: New materials for spintronics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010 , 74, 1348-1351	0.4	
53	Growth and magnetic properties of Mn-doped ZnSiAs ₂ /Si heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 1336-1338		3
52	Phase transformation of p-Cd _{1-x} Mn _x GeAs ₂ single crystals at 5.5 GPa. <i>Inorganic Materials</i> , 2009 , 45, 961-964	0.9	5
51	Phase relations in the Si-ZnAs ₂ system in the range 45-100 mol % ZnAs ₂ . <i>Inorganic Materials</i> , 2009 , 45, 1321-1325	0.9	1
50	High-pressure induced magnetoresistance in p-InAs:Mn and p-CdGeAs ₂ :Mn. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009 , 73, 992-994	0.4	1
49	Kinetic effects in n-CdAs ₂ , p-ZnAs ₂ , and Cd _x Zn _{1-x} As ₂ solid solutions. <i>Russian Journal of Inorganic Chemistry</i> , 2009 , 54, 121-124	1.5	1
48	Magnetic and electric properties of manganese-doped ZnSiAs ₂ . <i>Russian Journal of Inorganic Chemistry</i> , 2009 , 54, 1350-1354	1.5	9
47	Phase transformations in III-V semiconductors under high pressure. <i>Semiconductors</i> , 2009 , 43, 701-705	0.7	3
46	Manganese-doped ZnSiAs ₂ chalcopyrite: A new advanced material for spintronics. <i>Physics of the Solid State</i> , 2009 , 51, 303-308	0.8	17

45	Metamagnetism near T _C in Mn-substituted chalcopyrite Cd _{0.90} Mn _{0.10} GeAs ₂ . <i>JETP Letters</i> , 2009 , 89, 333-336	1.2	6
44	Ferromagnetic semiconductor ZnGeAs ₂ {Mn} with a curie point of 367 K. <i>Russian Journal of Inorganic Chemistry</i> , 2008 , 53, 22-29	1.5	11
43	Join Si-ZnAs ₂ of the ternary system Zn-Si-As. <i>Russian Journal of Inorganic Chemistry</i> , 2008 , 53, 1139-1143	1.5	1
42	Dilute magnetic semiconductor: Magnesium-doped Zn _{0.9} Cd _{0.1} GeAs ₂ . <i>Russian Journal of Inorganic Chemistry</i> , 2008 , 53, 1840-1844	1.5	3
41	New ferromagnetic material based on ZnSiAs ₂ containing manganese. <i>Theoretical Foundations of Chemical Engineering</i> , 2008 , 42, 575-578	0.9	3
40	Optical and photoelectric properties of monoclinic Zn _{1-x} Cd _x As ₂ crystals. <i>Inorganic Materials</i> , 2007 , 43, 215-220	0.9	1
39	Synthesis, structures, and electrophysical properties of single crystals of solid solutions CdGeAs ₂ :Mn(x) and Cd _{0.964} Zn _{0.036} GeAs ₂ :Mn(x). <i>Russian Journal of Inorganic Chemistry</i> , 2007 , 52, 1769-1774	1.5	7
38	Magnetic and electrical properties of the ZnGeAs ₂ : Mn chalcopyrite. <i>Physics of the Solid State</i> , 2007 , 49, 2121-2125	0.8	16
37	Optical absorption in monoclinic zinc diphosphide. <i>Inorganic Materials</i> , 2006 , 42, 221-225	0.9	5
36	Phase transformations of the ferromagnetic semiconductor Cd _{1-x} MnxGeP ₂ at pressures of up to 5 GPa. <i>Inorganic Materials</i> , 2006 , 42, 826-829	0.9	4
35	Edge absorption and light propagation in single crystals of Zn _{1-x} Cd _x As ₂ solid solutions. <i>Inorganic Materials</i> , 2006 , 42, 1289-1293	0.9	2
34	Growth and structure of ZnSnAs ₂ crystals. <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 790-793	1.5	3
33	Ferromagnetic material CdGeP ₂ :Mn for spintronics. <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 1153-1156	1.5	4
32	Ferromagnetism of manganese-doped InSb alloys. <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 1627-1631	1.5	22
31	Magnetism-Related Properties of CdSb Revealed by the Zeeman ¹²¹ Sb NQR Spectra. <i>Hyperfine Interactions</i> , 2005 , 159, 173-179	0.8	1
30	Phase transitions of p-type ZnAs ₂ at very high pressures. <i>Inorganic Materials</i> , 2005 , 41, 95-97	0.9	1
29	Crystal-chemical aspect of formation of CdAs ₂ -ZnAs ₂ solid solutions. <i>Inorganic Materials</i> , 2005 , 41, 3-6	0.9	3
28	Phase transition of the new ferromagnet Cd _{1-x} MnxGeAs ₂ at high pressures (0.9-7 GPa). <i>Inorganic Materials</i> , 2005 , 41, 7-10	0.9	4

27	Optical and photoelectric properties of Cd _{1-x} Zn _x As ₂ single crystals. <i>Inorganic Materials</i> , 2005 , 41, 212-216	0.9	4
26	High-pressure phase transformation of oriented CdSb single crystals. <i>Inorganic Materials</i> , 2005 , 41, 217-219	0.9	4
25	Synthesis and Structure of Mn-Doped CdGeAs ₂ Single Crystals. <i>Inorganic Materials</i> , 2005 , 41, 439-442	0.9	18
24	Crystal Growth and Electrical Properties of CdP ₂ Single Crystals. <i>Inorganic Materials</i> , 2005 , 41, 901-905	0.9	15
23	Crystal Growth and Structure of the Zn _{0.97} Cd _{0.03} As ₂ Solid Solution. <i>Inorganic Materials</i> , 2005 , 41, 906-910	0.9	3
22	Structural Defects in Cd _{1-x} Zn _x As ₂ Solid Solutions. <i>Inorganic Materials</i> , 2005 , 41, 1039-1042	0.9	1
21	Bridgman Growth of NiSb Single Crystals. <i>Inorganic Materials</i> , 2005 , 41, 1162-1165	0.9	4
20	A new high-T _C ferromagnet: Manganese-doped CdGeAs ₂ chalcopyrite. <i>Technical Physics Letters</i> , 2004 , 30, 924-926	0.7	15
19	Preparation and Structure of CdGeAs ₂ Crystals. <i>Inorganic Materials</i> , 2004 , 40, 93-95	0.9	31
18	Temperature-Dependent Elastic Constants and Dielectric Properties of (Zn _{1-x} Cd _x) ₃ (P _{1-y} As _y) ₂ Crystals. <i>Inorganic Materials</i> , 2003 , 39, 317-322	0.9	3
17	Electrical Properties of Cd _x Zn _{1-x} As ₂ Solid Solutions at Pressures of up to 9 GPa. <i>Inorganic Materials</i> , 2003 , 39, 780-782	0.9	
16	Phase Relations in the Zn ₃ As ₂ -nAs ₂ -dAs ₂ -d ₃ As ₂ System. <i>Inorganic Materials</i> , 2003 , 39, 911-915	0.9	3
15	Crystal Growth and Properties of Cd _{1-x} Zn _x As ₂ Solid Solutions. <i>Inorganic Materials</i> , 2003 , 39, 1024-1027	0.9	6
14	Cadmium Antimonide: Chemical Bonding and Technology. <i>Inorganic Materials</i> , 2003 , 39, S59-S68	0.9	7
13	Resistivity and Hall Coefficient of Zinc Diarsenide at Hydrostatic Pressures of up to 9 GPa. <i>Inorganic Materials</i> , 2002 , 38, 201-202	0.9	3
12	Energy Levels of Structural Defects in ZnAs ₂ . <i>Inorganic Materials</i> , 2002 , 38, 325-330	0.9	4
11	Phase Transformations in the Systems Y ₂ BaCuO ₅ -Ba ₃ Cu ₅ O ₈ and Y ₂ BaCuO ₅ -BaCuO ₂ . <i>Inorganic Materials</i> , 2002 , 38, 597-603	0.9	
10	Electrical Transport and Phenomenological Model of Oxygen Nonstoichiometry in YBa ₂ Cu ₃ O _{7-δ} . <i>Inorganic Materials</i> , 2002 , 38, 694-699	0.9	2

- 9 Preparation, Structure, and Optical Properties of Thin ZnAs₂ Films. *Inorganic Materials*, **2002**, 38, 781-783. 0.9
- 8 Growth of YBa₂Cu₃O₇ Single Crystals in Ba₃Cu₅O₈/Y₂BaCuO₅ and (Ba₃Cu₅O₈-0.2BaCuO₂)/Y₂BaCuO₅ Diffusion Couples. *Inorganic Materials*, **2002**, 38, 813-818 0.9
- 7 Effect of Hydrostatic Pressure on the Transport Properties of Cadmium Diarsenide Crystals. *Inorganic Materials*, **2001**, 37, 327-330 0.9 32
- 6 Interaction between thin indium films and single-crystal ZnAs₂ substrates. *Inorganic Materials*, **2000**, 36, 429-430 0.9
- 5 Effective distribution coefficient of Te in ZnAs₂. *Inorganic Materials*, **2000**, 36, 327-329 0.9 0
- 4 A series of free exciton lines in zinc diarsenide. *Physics of the Solid State*, **1998**, 40, 808-809 0.8
- 3 Lattice Defects in Undoped CdAs₂ Monocrystals. *Physica Status Solidi (B): Basic Research*, **1998**, 210, 569-573 0.7
- 2 Photoluminescence of single crystals of cadmium diarsenide. *Journal of Applied Spectroscopy*, **1998**, 65, 155-159 0.7
- 1 Raman scattering and lattice vibrations in tetragonal CdAs₂ crystals. *Physica Status Solidi (B): Basic Research*, **1996**, 194, 509-515 1.3 4