

Sergey Marenkin

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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	Manufacture of magnetic granular structures in semiconductor-ferromagnet systems. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 295-300	1.5	39
115	Effect of Hydrostatic Pressure on the Transport Properties of Cadmium Diarsenide Crystals. <i>Inorganic Materials</i> , 2001 , 37, 327-330	0.9	32
114	Preparation and Structure of CdGeAs ₂ Crystals. <i>Inorganic Materials</i> , 2004 , 40, 93-95	0.9	31
113	Ferromagnetism of manganese-doped InSb alloys. <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 1627-1631	1.5	22
112	Structural and magnetic properties of In _{1-x} MnxSb: Effect of Mn complexes and MnSb nanoprecipitates. <i>Journal of Applied Physics</i> , 2013 , 113, 083905	2.5	21
111	New ferromagnetics based on manganese-alloyed chalcopyrites AII BIV C V ₂ . <i>Inorganic Materials</i> , 2010 , 46, 1421-1436	0.9	21
110	Growth of magnetic eutectic GaSb-MnSb films by pulsed laser deposition. <i>Inorganic Materials</i> , 2014 , 50, 897-902	0.9	20
109	Synthesis and magnetic properties of the InSb-MnSb eutectic. <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 1951-1956	1.5	20
108	Physicochemical foundations of synthesis of new ferromagnets from chalcopyrites AII BIV C V ₂ . <i>Russian Journal of Inorganic Chemistry</i> , 2010 , 55, 1762-1773	1.5	18
107	Synthesis and Structure of Mn-Doped CdGeAs ₂ Single Crystals. <i>Inorganic Materials</i> , 2005 , 41, 439-442	0.9	18
106	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
105	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
104	Magnetic and electrical properties of the ZnGeAs ₂ : Mn chalcopyrite. <i>Physics of the Solid State</i> , 2007 , 49, 2121-2125	0.8	16
103	A new high-T _C ferromagnet: Manganese-doped CdGeAs ₂ chalcopyrite. <i>Technical Physics Letters</i> , 2004 , 30, 924-926	0.7	15
102	Crystal Growth and Electrical Properties of ECdP ₂ Single Crystals. <i>Inorganic Materials</i> , 2005 , 41, 901-905	0.9	15
101	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
100	Magnetic and electric properties of manganese-doped ZnSiAs ₂ . <i>Russian Journal of Inorganic Chemistry</i> , 2009 , 54, 1350-1354	1.5	9

99	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
98	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
97	Growth of eutectic composites in the InSb/MnSb system. <i>Inorganic Materials</i> , 2016 , 52, 268-273	0.9	7
96	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
95	Cadmium Antimonide: Chemical Bonding and Technology. <i>Inorganic Materials</i> , 2003 , 39, S59-S68	0.9	7
94	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
93	Magnetic and electrical properties of Zn ₃ P ₂ + MnP materials. <i>Inorganic Materials</i> , 2013 , 49, 545-549	0.9	6
92	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
91	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
90	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
89	Magnetotransport effects in granular Cd ₃ As ₂ + MnAs structures at high pressures. <i>Inorganic Materials</i> , 2016 , 52, 357-360	0.9	5
88	Growth of Thin Cadmium Arsenide Films by Magnetron Sputtering and Their Structure. <i>Inorganic Materials</i> , 2019 , 55, 879-886	0.9	5
87	Quantum Corrections and Magnetotransport in 3D Dirac Semimetal Cd _{3-x} MnxAs ₂ Films. <i>Semiconductors</i> , 2019 , 53, 1439-1444	0.7	5
86	Phase transformation of p-Cd _{1-x} MnxGeAs ₂ single crystals at 5.5 GPa. <i>Inorganic Materials</i> , 2009 , 45, 961-964	0.9	5
85	Optical absorption in monoclinic zinc diphosphide. <i>Inorganic Materials</i> , 2006 , 42, 221-225	0.9	5
84	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
83	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
82	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

81	Ferromagnetic material CdGeP ₂ :Mn for spintronics. <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 1153-1156	1.5	4
80	Energy Levels of Structural Defects in ZnAs ₂ . <i>Inorganic Materials</i> , 2002 , 38, 325-330	0.9	4
79	Phase transition of the new ferromagnet Cd _{1-x} Mn _x GeAs ₂ at high pressures (0.9-1.7 GPa). <i>Inorganic Materials</i> , 2005 , 41, 7-10	0.9	4
78	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
77	High-pressure phase transformation of oriented CdSb single crystals. <i>Inorganic Materials</i> , 2005 , 41, 217-219	0.9	4
76	Bridgman Growth of NiSb Single Crystals. <i>Inorganic Materials</i> , 2005 , 41, 1162-1165	0.9	4
75	Raman scattering and lattice vibrations in tetragonal CdAs ₂ crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 194, 509-515	1.3	4
74	Ferromagnetic-to-Paramagnetic Phase Transition of MnAs Studied by Calorimetry and Magnetic Measurements. <i>Inorganic Materials</i> , 2018 , 54, 863-867	0.9	4
73	Physicochemical Principles Underlying the Synthesis of Granular Semiconductor Ferromagnet Magnetic Structures Exemplified by AlI ₃ GeAs ₂ (AlI = Zn, Cd) Materials. <i>Inorganic Materials</i> , 2019 , 55, 865-872	0.9	3
72	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
71	Thermal Conductivity of Tetragonal Cadmium Diphosphide Crystals. <i>Inorganic Materials</i> , 2018 , 54, 237-239	0.9	3
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	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
68	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	0.9	3
67	Phase transformations in III ₂ V semiconductors under high pressure. <i>Semiconductors</i> , 2009 , 43, 701-705	0.7	3
66	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
65	New ferromagnetic material based on ZnSiAs ₂ containing manganese. <i>Theoretical Foundations of Chemical Engineering</i> , 2008 , 42, 575-578	0.9	3
64	Growth and structure of ZnSnAs ₂ crystals. <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 790-793	1.5	3

63	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
62	Temperature-Dependent Elastic Constants and Dielectric Properties of $(\text{Zn}_{1-x}\text{Cd}_x)_3(\text{P}_{1-y}\text{As}_y)_2$ Crystals. <i>Inorganic Materials</i> , 2003 , 39, 317-322	0.9	3
61	Phase Relations in the $\text{Zn}_3\text{As}_2\text{-ZnAs}_2\text{-CdAs}_2\text{-Cd}_3\text{As}_2$ System. <i>Inorganic Materials</i> , 2003 , 39, 911-915	0.9	3
60	Crystal-chemical aspect of formation of $\text{CdAs}_2\text{-ZnAs}_2$ solid solutions. <i>Inorganic Materials</i> , 2005 , 41, 3-6	0.9	3
59	Crystal Growth and Structure of the $\text{Zn}_{0.97}\text{Cd}_{0.03}\text{As}_2$ Solid Solution. <i>Inorganic Materials</i> , 2005 , 41, 906-910	0.9	3
58	Aluminum Antimonide Thin Films: Structure and Properties. <i>Russian Journal of Inorganic Chemistry</i> , 2018 , 63, 1117-1121	1.5	3
57	Controlling the phase composition of cadmium sulfide films during pulsed laser deposition. <i>Inorganic Materials</i> , 2017 , 53, 1120-1125	0.9	2
56	Phase equilibria in the $\text{ZnGeAs}_2\text{-MnAs}$ system. <i>Russian Journal of Inorganic Chemistry</i> , 2016 , 61, 103-108	1.5	2
55	Magnetic properties of dilute magnetic semiconductor $\text{Cd}_{0.82}\text{Mn}_{0.18}\text{GeAs}_2$ under high pressures. <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 924-927	1.5	2
54	High-pressure magnetic phase transition and galvanomagnetic effects in the high-temperature ferromagnet $\text{p-Cd}_{0.7}\text{Mn}_{0.3}\text{GeAs}_2$. <i>Inorganic Materials</i> , 2010 , 46, 919-923	0.9	2
53	Edge absorption and light propagation in single crystals of $\text{Zn}_{1-x}\text{Cd}_x\text{As}_2$ solid solutions. <i>Inorganic Materials</i> , 2006 , 42, 1289-1293	0.9	2
52	Electrical Transport and Phenomenological Model of Oxygen Nonstoichiometry in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Inorganic Materials</i> , 2002 , 38, 694-699	0.9	2
51	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
50	Electronic, magnetic and magnetotransport properties of Mn-doped Dirac semimetal Cd_3As_2 . <i>Acta Materialia</i> , 2021 , 219, 117249	8.4	2
49	Formation of the β -phase and study of the solubility of Mn in Cd_3As_2 . <i>Journal of Alloys and Compounds</i> , 2022 , 892, 162082	5.7	2
48	Growth and physicochemical properties of $\text{Zn}_3\text{As}_2 + \text{MnAs}$ magnetic composite films. <i>Inorganic Materials</i> , 2015 , 51, 754-758	0.9	1
47	Superconductivity in Thin Films of the Dirac Semimetal Cd_3As_2 . <i>Physics of the Solid State</i> , 2020 , 62, 419-428	1	1
46	Phase equilibria in the $\text{ZnGeAs}_2\text{-CdGeAs}_2$ system. <i>Russian Journal of Inorganic Chemistry</i> , 2014 , 59, 126-129	1	1

45	Some aspects of the chemical bonding in antimony. <i>Inorganic Materials</i> , 2013 , 49, 766-769	0.9	1
44	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
43	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
42	High-pressure volume magnetostriction in the diluted magnetic semiconductor Cd _{1-x} Mn _x GeAs ₂ (x = 0.060.3). <i>Inorganic Materials</i> , 2011 , 47, 1171-1173	0.9	1
41	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
40	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
39	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
38	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
37	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
36	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
35	Magnetism-Related Properties of CdSb Revealed by the Zeeman ¹²¹ Sb NQR Spectra. <i>Hyperfine Interactions</i> , 2005 , 159, 173-179	0.8	1
34	Phase transitions of p-type ZnAs ₂ at very high pressures. <i>Inorganic Materials</i> , 2005 , 41, 95-97	0.9	1
33	Structural Defects in Cd _{1-x} Zn _x As ₂ Solid Solutions. <i>Inorganic Materials</i> , 2005 , 41, 1039-1042	0.9	1
32	AlMn Hard Magnetic Alloys as Promising Materials for Permanent Magnets (Review). <i>Russian Journal of Inorganic Chemistry</i> , 2020 , 65, 2007-2019	1.5	1
31	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
30	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
29	Magnetoresistance of the p-(InSb + MnSb)/n-InSb diode structure. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	1
28	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

27	Effective distribution coefficient of Te in ZnAs ₂ . <i>Inorganic Materials</i> , 2000 , 36, 327-329	0.9	0
26	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
25	Magnetic Anisotropy of Needlelike Single-Crystal MnSb Inclusions in an InSb Matrix. <i>Technical Physics Letters</i> , 2021 , 47, 490-493	0.7	0
24	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
23	Preparation of Shaped Indium Phosphide Surfaces for Edge-Emitting Devices. <i>Inorganic Materials</i> , 2019 , 55, 125-128	0.9	
22	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	
21	Fabrication of ZnSe/InP Heterojunctions on Flat and Shaped Surfaces of InP Laser Crystals. <i>Inorganic Materials</i> , 2019 , 55, 903-907	0.9	
20	Hall effect in a magnetogranulated structure of a semiconductor-ferromagnetic system at high pressures. <i>Inorganic Materials</i> , 2014 , 50, 647-650	0.9	
19	Specifics of chemical bonding in zinc crystals. <i>Russian Journal of Inorganic Chemistry</i> , 2012 , 57, 538-543	1.5	
18	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	
17	Chemical bonding in cadmium. <i>Inorganic Materials</i> , 2011 , 47, 952-956	0.9	
16	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	
15	Electrical properties of p-Zn _{1-x} Cd _x GeAs ₂ <Mn>. <i>Inorganic Materials</i> , 2010 , 46, 449-451	0.9	
14	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	
13	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	
12	A series of free exciton lines in zinc diarsenide. <i>Physics of the Solid State</i> , 1998 , 40, 808-809	0.8	
11	Lattice Defects in Undoped CdAs ₂ Monocrystals. <i>Physica Status Solidi (B): Basic Research</i> , 1998 , 210, 569-573		
10	Photoluminescence of single crystals of cadmium diarsenide. <i>Journal of Applied Spectroscopy</i> , 1998 , 65, 155-159	0.7	

- 9 Synthesis, structures, and electrophysical properties of single crystals of solid solutions $\text{CdGeAs}_2:\text{Mn}(x)$ and $\text{Cd}_{0.964}\text{Zn}_{0.036}\text{GeAs}_2:\text{Mn}(x)$. *Russian Journal of Inorganic Chemistry*, **2007**, 52, 1769-1774
- 8 Phase Transformations in the Systems $\text{Y}_2\text{BaCuO}_5/\text{Ba}_3\text{Cu}_5\text{O}_8$ and $\text{Y}_2\text{BaCuO}_5/\text{BaCuO}_2$. *Inorganic Materials*, **2002**, 38, 597-603 0.9
- 7 Preparation, Structure, and Optical Properties of Thin ZnAs_2 Films. *Inorganic Materials*, **2002**, 38, 781-783 0.9
- 6 Growth of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Single Crystals in $\text{Ba}_3\text{Cu}_5\text{O}_8/\text{Y}_2\text{BaCuO}_5$ and $(\text{Ba}_3\text{Cu}_5\text{O}_8/0.2\text{BaCuO}_2)/\text{Y}_2\text{BaCuO}_5$ Diffusion Couples. *Inorganic Materials*, **2002**, 38, 813-818 0.9
- 5 Electrical Properties of $\text{Cd}_x\text{Zn}_{1-x}\text{As}_2$ Solid Solutions at Pressures of up to 9 GPa. *Inorganic Materials*, **2003**, 39, 780-782 0.9
- 4 Interaction between thin indium films and single-crystal ZnAs_2 substrates. *Inorganic Materials*, **2000**, 36, 429-430 0.9
- 3 Spin-Polarized Electric Current in $\text{Cd}_{48.6}\text{Mn}_{11.4}\text{As}_{40}$ Nanocomposite. *Physics of the Solid State*, **2021**, 63, 644 0.8
- 2 Electrical Resistance and Magnetoresistance of Cd_3As_2 10 mol % MnAs under High Pressures. *Physics of the Solid State*, **2021**, 63, 1301-1304 0.8
- 1 Pressure-induced magnetic transformations in $\text{Cd}_3\text{As}_2+\text{MnAs}$ hybrid composite. *Applied Physics Letters*, **2022**, 120, 202406 3-4