

Sergey Marenkin

List of Publications by Year in descending order

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120
all docs

120
docs citations

120
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Manufacture of magnetic granular structures in semiconductor-ferromagnet systems. Russian Journal of Inorganic Chemistry, 2015, 60, 295-300.	0.3	45
2	Effect of Hydrostatic Pressure on the Transport Properties of Cadmium Diarsenide Crystals. Inorganic Materials, 2001, 37, 327-330.	0.2	34
3	Preparation and Structure of CdGeAs ₂ Crystals. Inorganic Materials, 2004, 40, 93-95.	0.2	33
4	New ferromagnetics based on manganese-alloyed chalcopyrites AlBIVC 2 V. Inorganic Materials, 2010, 46, 1421-1436.	0.2	27
5	Structural and magnetic properties of In _{1-x} Mn _x Sb: Effect of Mn complexes and MnSb nanoprecipitates. Journal of Applied Physics, 2013, 113, .	1.1	26
6	Ferromagnetism of manganese-doped InSb alloys. Russian Journal of Inorganic Chemistry, 2006, 51, 1627-1631.	0.3	24
7	Synthesis and magnetic properties of the InSb-MnSb eutectic. Russian Journal of Inorganic Chemistry, 2011, 56, 1951-1956.	0.3	22
8	Physicochemical foundations of synthesis of new ferromagnets from chalcopyrites AlBIVC 2 V. Russian Journal of Inorganic Chemistry, 2010, 55, 1762-1773.	0.3	20
9	Growth of magnetic eutectic GaSb-MnSb films by pulsed laser deposition. Inorganic Materials, 2014, 50, 897-902.	0.2	20
10	Magnetic and electrical properties of Cd ₃ As ₂ + MnAs composite. Russian Journal of Inorganic Chemistry, 2014, 59, 355-359.	0.3	20
11	Synthesis and Structure of Mn-Doped CdGeAs ₂ Single Crystals. Inorganic Materials, 2005, 41, 439-442.	0.2	19
12	Magnetic and electrical properties of the ZnGeAs ₂ : Mn chalcopyrite. Physics of the Solid State, 2007, 49, 2121-2125.	0.2	18
13	Manganese-doped ZnSiAs ₂ chalcopyrite: A new advanced material for spintronics. Physics of the Solid State, 2009, 51, 303-308.	0.2	18
14	A new high-T _C ferromagnet: Manganese-doped CdGeAs ₂ chalcopyrite. Technical Physics Letters, 2004, 30, 924-926.	0.2	15
15	Crystal Growth and Electrical Properties of $\hat{\Gamma}^2$ -CdP ₂ Single Crystals. Inorganic Materials, 2005, 41, 901-905.	0.2	15
16	Manganese Pnictides MnP, MnAs, and MnSb are Ferromagnetic Semimetals: Preparation, Structure, and Properties (a Survey). Russian Journal of Inorganic Chemistry, 2018, 63, 1753-1763.	0.3	15
17	Ferromagnetic semiconductor ZnGeAs ₂ {Mn} with a curie point of 367 K. Russian Journal of Inorganic Chemistry, 2008, 53, 22-29.	0.3	14
18	Magnetic and electric properties of manganese-doped ZnSiAs ₂ . Russian Journal of Inorganic Chemistry, 2009, 54, 1350-1354.	0.3	11

#	ARTICLE	IF	CITATIONS
19	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
20	CdSb, ZnSb, and Cd _x Zn _{1-x} Sb low-symmetry crystals: Chemical bonding and technological aspects. Inorganic Materials, 2010, 46, 574-580.	0.2	9
21	Crystal Growth and Properties of Cd _{1-x} Zn _x As ₂ Solid Solutions. Inorganic Materials, 2003, 39, 1024-1027.	0.2	8
22	Growth of eutectic composites in the InSb-MnSb system. Inorganic Materials, 2016, 52, 268-273.	0.2	8
23	Growth of Thin Cadmium Arsenide Films by Magnetron Sputtering and Their Structure. Inorganic Materials, 2019, 55, 879-886.	0.2	8
24	Physicochemical Principles Underlying the Synthesis of Granular Semiconductor-Ferromagnet Magnetic Structures Exemplified by AllGeAs ₂ (All = Zn, Cd) Materials. Inorganic Materials, 2019, 55, 865-872.	0.2	8
25	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
26	Electronic, magnetic and magnetotransport properties of Mn-doped Dirac semimetal Cd ₃ As ₂ . Acta Materialia, 2021, 219, 117249.	3.8	8
27	Cadmium Antimonide: Chemical Bonding and Technology. Inorganic Materials, 2003, 39, S59-S68.	0.2	7
28	Ferromagnetic material CdGeP ₂ :Mn for spintronics. Russian Journal of Inorganic Chemistry, 2006, 51, 1153-1156.	0.3	7
29	Pressure-induced metamagnetic transition in the Cd _{0.7} Mn _{0.3} GeAs ₂ ferromagnetic semiconductor. JETP Letters, 2010, 91, 478-480.	0.4	7
30	Phase equilibria and electrical and magnetic properties of a eutectic in the GaSb-MnSb system. Russian Journal of Inorganic Chemistry, 2013, 58, 1324-1329.	0.3	7
31	Magnetotransport effects in granular Cd ₃ As ₂ + MnAs structures at high pressures. Inorganic Materials, 2016, 52, 357-360.	0.2	7
32	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
33	Ferromagnetic-to-Paramagnetic Phase Transition of MnAs Studied by Calorimetry and Magnetic Measurements. Inorganic Materials, 2018, 54, 863-867.	0.2	7
34	Quantum Corrections and Magnetotransport in 3D Dirac Semimetal Cd ₃ As ₂ Films. Semiconductors, 2019, 53, 1439-1444.	0.2	7
35	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. Inorganic Materials, 2019, 55, 873-878.	0.2	7
36	Al-Mn Hard Magnetic Alloys as Promising Materials for Permanent Magnets (Review). Russian Journal of Inorganic Chemistry, 2020, 65, 2007-2019.	0.3	7

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37	Metamagnetism near T _C in Mn-substituted chalcopyrite Cd _{0.90} Mn _{0.10} GeAs ₂ . JETP Letters, 2009, 89, 333-336.	0.4	6
38	Magnetic and electrical properties of Zn ₃ P ₂ + MnP materials. Inorganic Materials, 2013, 49, 545-549.	0.2	6
39	Raman scattering and lattice vibrations in tetragonal CdAs ₂ crystals. Physica Status Solidi (B): Basic Research, 1996, 194, 509-515.	0.7	5
40	Energy Levels of Structural Defects in ZnAs ₂ . Inorganic Materials, 2002, 38, 325-330.	0.2	5
41	Phase Relations in the Zn ₃ As ₂ -ZnAs ₂ -CdAs ₂ -Cd ₃ As ₂ System. Inorganic Materials, 2003, 39, 911-915.	0.2	5
42	Optical absorption in monoclinic zinc diphosphide. Inorganic Materials, 2006, 42, 221-225.	0.2	5
43	Phase transformation of p-Cd _{1-x} Mn _x GeAs ₂ single crystals at 5.5 GPa. Inorganic Materials, 2009, 45, 961-964.	0.2	5
44	Formation of the $\hat{\Gamma}_2'$ -phase and study of the solubility of Mn in Cd ₃ As ₂ . Journal of Alloys and Compounds, 2022, 892, 162082.	2.8	5
45	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
46	Resistivity and Hall Coefficient of Zinc Diarsenide at Hydrostatic Pressures of up to 9 GPa. Inorganic Materials, 2002, 38, 201-202.	0.2	4
47	Crystal-chemical aspect of formation of CdAs ₂ -ZnAs ₂ solid solutions. Inorganic Materials, 2005, 41, 3-6.	0.2	4
48	Phase transition of the new ferromagnet Cd _{1-x} Mn _x GeAs ₂ at high pressures (0.9-4.7 GPa). Inorganic Materials, 2005, 41, 7-10.	0.2	4
49	Optical and photoelectric properties of Cd _{1-x} Zn _x As ₂ single crystals. Inorganic Materials, 2005, 41, 212-216.	0.2	4
50	High-pressure phase transformation of oriented CdSb single crystals. Inorganic Materials, 2005, 41, 217-219.	0.2	4
51	Bridgman Growth of NiSb Single Crystals. Inorganic Materials, 2005, 41, 1162-1165.	0.2	4
52	Phase transformations of the ferromagnetic semiconductor Cd _{1-x} Mn _x GeP ₂ at pressures of up to 5 GPa. Inorganic Materials, 2006, 42, 826-829.	0.2	4
53	Growth and structure of ZnSnAs ₂ crystals. Russian Journal of Inorganic Chemistry, 2006, 51, 790-793.	0.3	4
54	Dilute magnetic semiconductor: Magnesium-doped Zn _{0.9} Cd _{0.1} GeAs ₂ . Russian Journal of Inorganic Chemistry, 2008, 53, 1840-1844.	0.3	4

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55	Phase transformations in II–V semiconductors under high pressure. <i>Semiconductors</i> , 2009, 43, 701-705.	0.2	4
56	Thermal Conductivity of Tetragonal Cadmium Diphosphide Crystals. <i>Inorganic Materials</i> , 2018, 54, 237-239.	0.2	4
57	Superconductivity in Thin Films of the Dirac Semimetal Cd ₃ As ₂ . <i>Physics of the Solid State</i> , 2020, 62, 419-422.	0.2	4
58	Title is missing!. <i>Inorganic Materials</i> , 2003, 39, 317-322.	0.2	3
59	Crystal Growth and Structure of the Zn _{0.97} Cd _{0.03} As ₂ Solid Solution. <i>Inorganic Materials</i> , 2005, 41, 906-910.	0.2	3
60	Join Si-ZnAs ₂ of the ternary system Zn-Si-As. <i>Russian Journal of Inorganic Chemistry</i> , 2008, 53, 1139-1143.	0.3	3
61	New ferromagnetic material based on ZnSiAs ₂ containing manganese. <i>Theoretical Foundations of Chemical Engineering</i> , 2008, 42, 575-578.	0.2	3
62	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.	0.8	3
63	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.	0.2	3
64	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.	0.2	3
65	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.	0.2	3
66	Aluminum Antimonide Thin Films: Structure and Properties. <i>Russian Journal of Inorganic Chemistry</i> , 2018, 63, 1117-1121.	0.3	3
67	The Synthesis and Investigation of the Electrical Properties of Tricadmium Diarsenide with MnAs Nanogranelles. <i>Technical Physics</i> , 2020, 65, 1083-1086.	0.2	3
68	Synthesis of Ferromagnetic Alloys Semiconductor–Ferromagnet in the CdAs ₂ –MnAs System. <i>Russian Journal of Inorganic Chemistry</i> , 2020, 65, 1219-1225.	0.3	3
69	Electrical Transport and Phenomenological Model of Oxygen Nonstoichiometry in YBa ₂ Cu ₃ O _{7-δ} . <i>Inorganic Materials</i> , 2002, 38, 694-699.	0.2	2
70	Structural Defects in Cd _{1-x} Zn _x As ₂ Solid Solutions. <i>Inorganic Materials</i> , 2005, 41, 1039-1042.	0.2	2
71	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.	0.2	2
72	Optical and photoelectric properties of monoclinic Zn _{1-x} Cd _x As ₂ crystals. <i>Inorganic Materials</i> , 2007, 43, 215-220.	0.2	2

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91	Phase equilibria in the ZnGeAs ₂ -CdGeAs ₂ system. Russian Journal of Inorganic Chemistry, 2014, 59, 126-129.	0.3	1
92	Growth and physicochemical properties of Zn ₃ As ₂ + MnAs magnetic composite films. Inorganic Materials, 2015, 51, 754-758.	0.2	1
93	Magnetoresistance of the p-(InSb+MnSb)/n-InSb diode structure. Optical and Quantum Electronics, 2016, 48, 1.	1.5	1
94	Effect of Particle Size on the Magnetostructural Transformation of a Manganese Monoarsenide-Based Phase in the ZnGeAs ₂ -MnAs System. Inorganic Materials, 2018, 54, 1187-1192.	0.2	1
95	Fabrication of ZnSe/InP Heterojunctions on Flat and Shaped Surfaces of InP Laser Crystals. Inorganic Materials, 2019, 55, 903-907.	0.2	1
96	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
97	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
98	Pressure-induced magnetic transformations in Cd ₃ As ₂ +MnAs hybrid composite. Applied Physics Letters, 2022, 120, .	1.5	1
99	A series of free exciton lines in zinc diarsenide. Physics of the Solid State, 1998, 40, 808-809.	0.2	0
100	Photoluminescence of single crystals of cadmium diarsenide. Journal of Applied Spectroscopy, 1998, 65, 155-159.	0.3	0
101	Interaction between thin indium films and single-crystal ZnAs ₂ substrates. Inorganic Materials, 2000, 36, 429-430.	0.2	0
102	Phase Transformations in the Systems Y ₂ BaCuO ₅ -Ba ₃ Cu ₅ O ₈ and Y ₂ BaCuO ₅ -BaCuO ₂ . Inorganic Materials, 2002, 38, 597-603.	0.2	0
103	Preparation, Structure, and Optical Properties of Thin ZnAs ₂ Films. Inorganic Materials, 2002, 38, 781-783.	0.2	0
104	Title is missing!. Inorganic Materials, 2002, 38, 813-818.	0.2	0
105	Electrical Properties of Cd _x Zn _{1-x} As ₂ Solid Solutions at Pressures of up to 9 GPa. Inorganic Materials, 2003, 39, 780-782.	0.2	0
106	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). Russian Journal of Inorganic Chemistry, 2007, 52, 1769-1774.	0.3	0
107	The high-pressure-induced spin-reorientation transition in a ferromagnetic semiconductor Cd _{0.7} Mn _{0.3} GeAs ₂ . Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1107-1108.	0.1	0
108	Manganese-doped CdGeAs ₂ , ZnGeAs ₂ and ZnSiAs ₂ chalcopyrites: New materials for spintronics. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1348-1351.	0.1	0

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109	Electrical properties of p-Zn _{1-x} Cd _x GeAs ₂ Mn-doped. Inorganic Materials, 2010, 46, 449-451.	0.2	0
110	Chemical bonding in cadmium. Inorganic Materials, 2011, 47, 952-956.	0.2	0
111	Magnetic properties of oriented p-Cd _{0.947} Mn _{0.053} GeAs ₂ single crystals at pressures of up to 7 GPa. Inorganic Materials, 2011, 47, 1295-1297.	0.2	0
112	Electrical properties of n-Cd _{1-x} Co _x GeAs ₂ (x = 0.05-0.15) at high pressures. Inorganic Materials, 2012, 48, 1070-1074.	0.2	0
113	Specifics of chemical bonding in zinc crystals. Russian Journal of Inorganic Chemistry, 2012, 57, 538-543.	0.3	0
114	Hall effect in a magnetogranulated structure of a semiconductor-ferromagnetic system at high pressures. Inorganic Materials, 2014, 50, 647-650.	0.2	0
115	Resistivity and bulk compressibility of manganese-doped ZnGeAs ₂ at hydrostatic pressures of up to 9 GPa. Inorganic Materials, 2015, 51, 299-301.	0.2	0
116	Preparation of Shaped Indium Phosphide Surfaces for Edge-Emitting Devices. Inorganic Materials, 2019, 55, 125-128.	0.2	0
117	Synthesis of bulk crystals and thin films of the ferromagnetic MnSb. Kondensirovannye Sredy Mezhfaznye Granitsy, 2021, 23, 387-395.	0.1	0
118	Magnetization of Cd ₃ As ₂ -30 mol % MnAs Composite at High Pressure. Technical Physics, 0, , .	0.2	0