

Effects of Pressure on the Magnetic Properties of MnAs

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Study of the Spin-Reordering Transition in Cr ₅ S ₆ . Physical Review B, 1970, 2, 3630-3638.	3.2	19
2	Energy Bands of Hexagonal NiS. Physical Review B, 1970, 1, 4604-4616.	3.2	59
3	The orthorhombic distortions and magnetic properties of manganese arsenide. Physica Status Solidi A, 1971, 5, K43-K46.	1.7	5
4	On ferromagnetism in MnAs _{1-x} Sb _x and MnAs _{1-y} P _y compounds. Physica Status Solidi A, 1971, 5, 405-413.	1.7	31
5	On the formation of the ferromagnetic phase in MnAs _{0.97} P _{0.03} . Physica Status Solidi A, 1971, 8, 119-124.	1.7	5
6	Diffuse Neutron Scattering in Manganese Arsenide. Physica Status Solidi (B): Basic Research, 1971, 43, K165.	1.5	2
7	Phase Transformation in MnAs Induced by a Strong Magnetic Field. Physica Status Solidi (B): Basic Research, 1971, 46, K23.	1.5	4
8	Radiation detection with the pyromagnetic effect. IEEE Transactions on Electron Devices, 1971, 18, 309-315.	3.0	15
9	Magnetic Properties of Cr _{1-x} Mn _x As System. Journal of the Physical Society of Japan, 1971, 30, 1319-1329.	1.6	53
10	Magnetic Structure of MnAs and MnAs _{0.92} P _{0.08} . Journal of Applied Physics, 1971, 42, 1621-1622.	2.5	49
11	Effect of Pressure on the Ferromagnetic Transition of MnAs _{1-x} Sb _x Solid Solutions. Physical Review B, 1972, 5, 1064-1072.	3.2	56
12	Magnetic and crystallographic properties of ternary manganese silicides with ordered Co ₂ P structure. Physica Status Solidi A, 1973, 20, 331-335.	1.7	66
14	The phase transformation and physical properties of the MnBi and Mn _{1.08} Bi compounds. IEEE Transactions on Magnetics, 1974, 10, 581-586.	2.1	202
15	Physical properties and electron spectrum of solid solutions (Co _{1-x} Ni _x) ₅ Ge ₃ . Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1975, 18, 1447-1452.	0.0	0
16	The conductivity of magnetically-ordered MnAs _{1-x} P _x -compounds. Philosophical Magazine and Journal, 1975, 31, 1049-1062.	1.7	24
17	NMR Study of Pressure-Induced Phase Transition in MnAs. Journal of the Physical Society of Japan, 1976, 40, 427-428.	1.6	6
18	Phase relations and structures of solids at high pressures. Progress in Solid State Chemistry, 1976, 11, 1-151.	7.2	184
19	The origin of ferromagnetism and antiferromagnetism in alloys of transition metals. II. Alloys of transition metals with other transition metals and with polyvalent non-transition elements. Physica Status Solidi A, 1976, 34, 11-67.	1.7	13

#	ARTICLE	IF	CITATIONS
20	Electronic State of High Spin MnAs. Journal of the Physical Society of Japan, 1977, 42, 1201-1211.	1.6	53
21	Electronic State of Low Spin MnAs(P). Journal of the Physical Society of Japan, 1977, 42, 1212-1220.	1.6	29
22	High Spin-Low Spin Transition in MnAs _{1-x} P _x (x=0.075). Journal of the Physical Society of Japan, 1977, 42, 31-35.	1.6	35
23	Low temperature resistivity minimum in MnAs _{1-x} P _x compounds. Journal of Magnetism and Magnetic Materials, 1977, 4, 69-76.	2.3	31
24	On the magnetic properties of transition metal substituted MnAs. Journal of Physics and Chemistry of Solids, 1977, 38, 719-725.	4.0	34
25	Estimation of ionic states of Mn through neutron form factor measurements in MnAs and MnAs(P) compounds. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1977, 86-88, 417-418.	0.9	1
26	Energy bands and electron correlation effects in manganese pnictides. Physica Status Solidi (B): Basic Research, 1977, 84, 385-392.	1.5	32
27	Exchange Interactions and the Coupled Spin-Lattice Phase Transitions in Manganese Pnictides. Physica Status Solidi (B): Basic Research, 1978, 88, 13-23.	1.5	44
28	Elastic anomalies at the second-order phase transition in MnAs. Physica Status Solidi A, 1978, 49, 545-554.	1.7	20
29	Optical properties of palladium-antimonide and gold-tin. Solid State Communications, 1978, 25, 461-464.	1.9	8
30	The thermoelectric power of MnAs _{1-x} P _x compounds. Journal of Physics C: Solid State Physics, 1978, 11, 4975-4982.	1.5	19
31	Electronic structure of PdSb. Physical Review B, 1978, 17, 1828-1835.	3.2	16
32	Evidence for excitonic absorption in metallic MnAs _{0.88} P _{0.12} . Physica Status Solidi (B): Basic Research, 1979, 95, 483-489.	1.5	7
33	Anisotropy of electrical conductivity and hall effect in MnAs _{0.95} P _{0.05} . Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 78, 205-208.	2.1	8
34	Hall Effect of Magnetically Ordered MnAs _{1-x} P _x Mixed Crystals. Physica Status Solidi (B): Basic Research, 1980, 98, 571-579.	1.5	21
35	Pressure effect on the Curie point of the Heusler alloys Ni ₂ MnSn and Ni ₂ MnSb. Journal of Applied Physics, 1981, 52, 2046-2048.	2.5	58
36	Relation between Structural and Magnetic Properties of Compound MnAs _{1-x} P _x (x=0.275). Journal of the Physical Society of Japan, 1982, 51, 3149-3156.	1.6	76
37	Magnetic phase diagram of MnAs: Effect of magnetic field on structural and magnetic transitions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 91, 243-245.	2.1	49

#	ARTICLE	IF	CITATIONS
38	Specific Heat Anomaly Connected with a High Spin to Low Spin Transition in Metallic MnAs _{1-x} P _x Crystals. Physica Status Solidi (B): Basic Research, 1982, 113, 185-195.	1.5	48
39	Magnetoresistance anomalies in MnAs _{1-x} P _x compounds at low temperatures. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 96, 207-211.	2.1	4
40	Nature of interatomic exchange interaction in Mn _{1-x} Ti _x As (0 ≤ x ≤ 1). Journal of Magnetism and Magnetic Materials, 1983, 31-34, 159-160.	2.3	18
41	Spin Fluctuation Theory of Intermetallic Compound MnAs. Journal of the Physical Society of Japan, 1984, 53, 735-746.	1.6	54
42	Magnetic Properties of CrSb. Journal of the Physical Society of Japan, 1984, 53, 2703-2709.	1.6	19
43	Hall effect anomalies at the magnetic phase transitions in MnAs _{1-x} P _x compounds. Journal of Physics C: Solid State Physics, 1984, 17, 6829-6841.	1.5	8
44	Characterization of the Magnetic Phases of MnAs _{1-x} P _x Crystals. Physica Status Solidi (B): Basic Research, 1984, 121, 157-160.	1.5	6
45	Electronic structure and phase transitions of MnAs. Journal of Magnetism and Magnetic Materials, 1984, 43, 204-212.	2.3	13
46	On the magnetic and structural properties of the MnAs _{1-x} P _x system (x ≈ 0.18). Journal of Magnetism and Magnetic Materials, 1984, 46, 29-39.	2.3	47
47	Neutron diffraction investigation of MnAs under high pressure. Journal of Magnetism and Magnetic Materials, 1984, 43, 158-160.	2.3	27
48	Structural and magnetic properties of Mn _{1-x} Ti _x As. Journal of Physics and Chemistry of Solids, 1985, 46, 275-286.	4.0	14
49	Magnetic phase diagram of MnAs. Journal of Magnetism and Magnetic Materials, 1985, 51, 199-210.	2.3	46
50	Magnetic phase diagram of the MnAs spin system. A computer simulation. Journal of Physics C: Solid State Physics, 1985, 18, 3791-3795.	1.5	3
51	Pressure-Induced Antiferromagnetism of Fe ₂ P. Journal of the Physical Society of Japan, 1985, 54, 2690-2699.	1.6	33
52	Pressure induced transitions in MnAs and MnAs _{0.80} Sb _{0.20} . Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 118, 293-296.	2.1	7
53	Structural and magnetic properties of MnAs _{0.90} P _{0.10} . Journal of Solid State Chemistry, 1986, 64, 123-133.	2.9	16
56	Structural and magnetic properties of Mn _{1-x} Ni _x As. Journal of Magnetism and Magnetic Materials, 1986, 61, 61-80.	2.3	11
57	Paramagnetic scattering experiments on MnAs _{1-x} P _x , x = 0.06, 0.12 and 0.18. Journal of Magnetism and Magnetic Materials, 1986, 62, 241-246.	2.3	8

#	ARTICLE	IF	CITATIONS
58	Magnetic phase transitions of the ternary phosphide MnRuP. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 1499-1500.	2.3	9
59	On the low-high spin anomaly in the heat capacity of MnAs _{1-x} P _x . Journal of Physics C: Solid State Physics, 1987, 20, 3005-3010.	1.5	8
60	Effect of external pressure and chemical substitution on the phase transitions in MnAs. Journal of Physics and Chemistry of Solids, 1987, 48, 79-89.	4.0	30
61	Heat capacity of MnAs _{0.88} P _{0.12} from 10 to 500 K: Thermodynamic properties and transitions. Journal of Solid State Chemistry, 1987, 70, 185-198.	2.9	9
62	Thermal, magnetic and structural aspects of transitions in Mn _{0.63} Cr _{0.37} As. Thermodynamic properties from 10 to 350 K. Journal of Magnetism and Magnetic Materials, 1987, 65, 37-52.	2.3	11
63	Effect of hydrostatic pressure on the Curie temperature of the Heusler alloys Ni ₂ MnZ (Z = Al, Ga, In, Sn) Tj ETQq1 1 0,784314.rgBT /Over	2.3	147
64	Correlation of magnetic and transport properties for some mixed magnetic transition metal pnictides. Journal of Magnetism and Magnetic Materials, 1987, 70, 268-270.	2.3	5
65	Classification of martensitic-like transformations in Cr _x Mn _{1-x} As _{1-y} Py Crystals. Physica Status Solidi A, 1988, 110, 141-154.	1.7	3
66	On the Electronic States of MnAs. Physica Status Solidi (B): Basic Research, 1988, 147, K189.	1.5	1
67	Hyperfine interactions in MnAs probed by ⁵⁷ Fe. Hyperfine Interactions, 1988, 41, 475-478.	0.5	0
68	High pressure resistivity of MnAs. Journal of Magnetism and Magnetic Materials, 1988, 74, 225-230.	2.3	8
69	Structural and magnetic properties of Mn _{1-t} FetAs (0.00 ≤ t ≤ 0.20). Journal of Magnetism and Magnetic Materials, 1988, 73, 318-326.	2.3	6
70	A Mössbauer study of ⁵⁷ Fe in MnAs. Physica Scripta, 1988, 37, 373-380.	2.5	2
71	Mn _{1-t} (Ti _{0.50} V _{0.50}) _t As; diluted manganese monoarsenide with zero overall chemical pressure. Journal of Physics and Chemistry of Solids, 1989, 50, 187-195.	4.0	0
72	Equation of state of MnAs _{0.88} P _{0.12} . Journal of Solid State Chemistry, 1990, 87, 222-228.	2.9	1
73	Chapter 3 Compounds of transition elements with nonmetals. Handbook of Magnetic Materials, 1991, 6, 181-287.	0.6	43
74	Mn _{1-x} Cr _x As under pressure: Competition between magnetic orderings. Physical Review B, 1991, 44, 196-204.	3.2	4
75	Magnetic States of Cr _x Mn _{1-x} As _{1-y} Crystals Close to x = 0.4 at%. Physica Status Solidi A, 1992, 134, 235-246.	1.7	2

#	ARTICLE	IF	CITATIONS
76	Mechanical Milling Effect on Crystal Structures and Magnetic Properties of MnAs and Mn _{0.8} Ti _{0.2} As Compounds. <i>Materials Transactions, JIM</i> , 1996, 37, 1356-1362.	0.9	0
77	Field- and anisotropy-induced states in MnAs _{1-x} P _x -single crystals. <i>Journal of Alloys and Compounds</i> , 1997, 262-263, 502-507.	5.5	10
78	Crystalline and magnetic properties of MnAs under pressure. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 1361-1362.	2.3	18
79	The Thermoelectric Power of Some Magnetically Ordered Transition Metal Pnictides. <i>Physica Status Solidi A</i> , 1998, 166, 843-851.	1.7	2
80	Hydrostatic pressure effect on the metal-insulator transition in sulfur deficient BaCo _{0.9} Ni _{0.1} S _{2-δ} . <i>Physica B: Condensed Matter</i> , 1998, 245, 20-26.	2.7	5
81	Spin- and angle-resolved photoemission spectroscopy of ferromagnetic MnAs. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 88-91, 207-212.	1.7	7
82	Spin-resolved core-level and valence-band photoemission spectroscopy of ferromagnetic MnAs. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 383-387.	1.7	8
83	Generation of second optical harmonic and magneto-optical Kerr effect in ferromagnet-semiconductor heterostructures CaF ₂ /MnAs/Si(111). <i>Physics of the Solid State</i> , 2000, 42, 909-917.	0.6	3
84	Relation of magnetic and structural factors in the course of phase transitions in MnAs-based alloys. <i>Physics of the Solid State</i> , 2000, 42, 1696-1704.	0.6	8
85	Pressure-induced structural phase transition in a ferromagnet CrTe. <i>Journal of Alloys and Compounds</i> , 2001, 315, 16-21.	5.5	29
86	Intrinsic exchange biasing in MnAs epilayers grown on (001) GaAs. <i>Applied Physics Letters</i> , 2001, 78, 2530-2532.	3.3	26
87	Two-carrier transport in epitaxially grown MnAs. <i>Physical Review B</i> , 2001, 64, .	3.2	33
88	Elastic and magnetic properties of epitaxial MnAs layers on GaAs. <i>Physical Review B</i> , 2002, 65, .	3.2	22
89	Pressure-induced structural and magnetic phase transition in ferromagnetic CrTe. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 250, 353-363.	2.3	11
90	Magnetic phase transition in strained MnAs compound. <i>Materials Science and Engineering C</i> , 2003, 23, 1059-1062.	7.3	3
91	Variable-temperature micromagnetic study of epitaxially grown MnAs films on GaAs(001). <i>Applied Physics A: Materials Science and Processing</i> , 2003, 77, 739-742.	2.3	8
92	Temperature study of MnAs local structure by EXAFS. <i>Solid State Communications</i> , 2003, 125, 607-609.	1.9	1
93	Neutron diffraction investigation of the atomic and magnetic structures of MnAs at high pressures. <i>Crystallography Reports</i> , 2003, 48, 54-57.	0.6	15

#	ARTICLE	IF	CITATIONS
94	Structural Transformation Induced by Magnetic Field and "Colossal-Like" Magnetoresistance Response above 313 K in MnAs. Physical Review Letters, 2003, 90, 097203.	7.8	97
95	Magnetic out-of-plane component in MnAs/GaAs(001). Applied Physics Letters, 2003, 83, 2850-2852.	3.3	24
96	Effect of strain on the local phase transition temperature of MnAs/GaAs(001). Applied Physics Letters, 2003, 83, 2829-2831.	3.3	17
97	Ferromagnetism of MnAs Studied by Heteroepitaxial Films on GaAs(001). Physical Review Letters, 2003, 91, 087203.	7.8	94
98	Magnetologic with MnAs Thin Films. Physical Review Letters, 2003, 91, 147203.	7.8	54
99	Nature of the magnetic and structural phase transition in MnAs/GaAs(001). Physical Review B, 2004, 69, .	3.2	25
100	Thickness dependence of the magnetic properties of MnAs films on GaAs(001) and GaAs(113)A: Role of a natural array of ferromagnetic stripes. Journal of Applied Physics, 2004, 96, 5056-5062.	2.5	42
101	Effect of MnAs/GaAs(001) film accommodations on the phase-transition temperature. Applied Physics Letters, 2004, 85, 2250-2252.	3.3	10
102	Enhancement of critical temperature and phases coexistence mediated by strain in MnAs epilayers grown on GaAs(111)B. Physical Review B, 2004, 70, .	3.2	37
103	Magnetic coupling and exchange stiffness in striped MnAs films. Europhysics Letters, 2004, 68, 726-732.	2.0	6
104	Pressure-Induced Colossal Magnetocaloric Effect in MnAs. Physical Review Letters, 2004, 93, 237202.	7.8	290
105	Magnetic anisotropy of MnAs-films on GaAs(001) studied with ferromagnetic resonance. Journal of Magnetism and Magnetic Materials, 2004, 277, 159-164.	2.3	29
106	NMR study of MnAs at atmospheric and high pressures. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E587-E588.	2.3	3
107	FIRST-ORDER MAGNETIC PHASE TRANSITIONS AND COLOSSAL MAGNETORESISTANCE: JOINING MANGANESE PEROVSKITES AND MnAs. Modern Physics Letters B, 2004, 18, 725-747.	1.9	13
108	Magnetoelastic coupling of MnAs/GaAs(001) close to the phase transition. Physical Review B, 2004, 70, .	3.2	12
109	Extending the magnetic order of MnAs films on GaAs to higher temperatures. Journal of Magnetism and Magnetic Materials, 2005, 288, 173-177.	2.3	5
110	The magnetic and magnetocaloric properties of Gd ₅ Ge ₂ Si ₂ compound under hydrostatic pressure. Journal of Applied Physics, 2005, 97, 10M320.	2.5	52
111	Arthur von Hippel and Magnetism. MRS Bulletin, 2005, 30, 849-853.	3.5	2

#	ARTICLE	IF	CITATIONS
112	From ferro- to antiferromagnetism via exchange-striction of MnAs/GaAs(001). Europhysics Letters, 2005, 72, 479-485.	2.0	23
113	Anisotropic strain fields in granular GaAs:MnAs epitaxial layers: Towards self-assembly of magnetic nanoparticles embedded in GaAs. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1700.	1.6	7
114	Tailoring of the structural and magnetic properties of MnAs films grown on GaAs—Strain and annealing effects. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1759.	1.6	37
115	Extended x-ray absorption fine structure study of the MnAs local structure at the phase transitions. Journal of Physics Condensed Matter, 2005, 17, 1537-1545.	1.8	7
116	Real-time direct observation of asymmetric magnetization reversal in exchange-biased single-layer systems. Physical Review B, 2005, 71, .	3.2	27
117	Lattice distortion of MnAs nanocrystals embedded in GaAs: Effect on the magnetic properties. Applied Physics Letters, 2005, 86, 161903.	3.3	13
118	Pressure dependence of the Curie temperature in Ni ₂ MnSn Heusler alloy: A first-principles study. Physical Review B, 2005, 71, .	3.2	134
119	X-ray method to study temperature-dependent stripe domains in MnAs/GaAs(001). Applied Physics Letters, 2005, 86, 053112.	3.3	24
120	Selective etching of epitaxial MnAs films on GaAs(001): Influence of structure and strain. Journal of Applied Physics, 2005, 98, 013907.	2.5	2
121	Competing magnetic interactions in MnAs studied via thin film domain pattern analysis. Physical Review B, 2005, 72, .	3.2	5
122	Effect of a magnetic field on the magnetostructural phase transition of MnAs films on GaAs. Physical Review B, 2005, 71, .	3.2	9
123	Micromechanics of MnAs nanocrystals embedded in GaAs. Physical Review B, 2005, 72, .	3.2	21
124	Magnetocaloric effect of La _{0.8} Sr _{0.2} MnO ₃ compound under pressure. Journal of Applied Physics, 2005, 97, 10M317.	2.5	25
125	Lattice Distortion Effects on the Magnetostructural Phase Transition of MnAs. Physical Review Letters, 2005, 95, 077203.	7.8	24
126	Developments in magnetocaloric refrigeration. Journal Physics D: Applied Physics, 2005, 38, R381-R391.	2.8	838
127	Interplay of stress and magnetic properties in epitaxial MnAs films. Reports on Progress in Physics, 2006, 69, 2581-2629.	20.1	84
128	Thickness-dependent magnetic domain change in epitaxial MnAs films on GaAs(001). Applied Physics Letters, 2006, 89, 232506.	3.3	15
129	Ab initio study of the magnetostructural properties of MnAs. Physical Review B, 2006, 74, .	3.2	43

#	ARTICLE	IF	CITATIONS
130	Theoretical description of the colossal entropic magnetocaloric effect: Application to MnAs. <i>Physical Review B</i> , 2006, 73, .	3.2	62
131	Ambient pressure colossal magnetocaloric effect tuned by composition in $\text{Mn}_{1-x}\text{Fe}_x\text{As}$. <i>Nature Materials</i> , 2006, 5, 802-804.	27.5	197
132	Fabrication of MnAs microstructures on substrates and their electrical properties. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2271-2280.	2.9	14
133	Adiabatic measurement of the giant magnetocaloric effect in MnAs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 84, 213-217.	3.6	54
134	First Principles Study of the Phase Transitions of MnAs. <i>Materials Research Society Symposia Proceedings</i> , 2006, 941, 1.	0.1	0
135	First-order phase transition in MnAs disks on GaAs (001). <i>Physical Review B</i> , 2006, 73, .	3.2	19
136	Nucleation at the phase transition near 40°C in MnAs nanodisks. <i>Applied Physics Letters</i> , 2006, 89, 051915.	3.3	5
137	Γ_2 - Γ_2' phase transition in $\text{MnAs}/\text{GaAs}(001)$ thin films: An optical spectroscopic investigation. <i>Physical Review B</i> , 2006, 74, .	3.2	14
138	Flipping of magnetic moments induced by the first-order phase transition in MnAs disks on GaAs(001). <i>Physical Review B</i> , 2006, 74, .	3.2	7
139	Chapter Four Magnetocaloric Refrigeration at Ambient Temperature. <i>Handbook of Magnetic Materials</i> , 2007, , 235-291.	0.6	26
140	Magnetotransport properties in (110)- and (001)-oriented MnAs films on GaAs substrates. <i>Journal of Applied Physics</i> , 2007, 101, 113916.	2.5	11
141	Abrupt changes in the temperature coefficient of resistivity induced by the phase transitions in MnAs films on GaAs. <i>Physical Review B</i> , 2007, 75, .	3.2	11
142	Ambient pressure colossal magnetocaloric effect in $\text{Mn}_{1-x}\text{Cu}_x\text{As}$ compounds. <i>Applied Physics Letters</i> , 2007, 90, 242507.	3.3	48
143	Biaxial Strain in the Hexagonal Plane of MnAs Thin Films: The Key to Stabilize Ferromagnetism to Higher Temperature. <i>Physical Review Letters</i> , 2007, 99, 117205.	7.8	43
144	Tilt growth of the epilayer with large lattice mismatch to the substrate. <i>EPJ Applied Physics</i> , 2007, 38, 231-238.	0.7	3
145	Tilt growth of MnAs on the GaAs(001) substrate. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 367, 373-378.	2.1	2
146	Magnetocaloric refrigeration near room temperature (invited). <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2793-2799.	2.3	165
147	Direct observation on the temperature-dependent change of magnetic domains in epitaxial MnAs film on GaAs (001). <i>Ultramicroscopy</i> , 2008, 108, 1066-1069.	1.9	1

#	ARTICLE	IF	CITATIONS
148	Ferromagnetic shape memory alloys: Alternatives to Ni ϵ -Mn ϵ -Ga. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 57-65.	5.6	119
149	Stress-modified structural and electronic properties of epitaxial MnAs layers on GaAs. Physical Review B, 2008, 78, .	3.2	7
150	Direct Observation of a Systematic Change of the Magnetic-Domain Structure With Temperature in 50-nm-MnAs/GaAs(001). IEEE Transactions on Magnetics, 2008, 44, 3241-3243.	2.1	12
151	Magnetic and structural properties of MnAs thin films on GaAs(111)B: Influence of the growth temperature. Applied Physics Letters, 2008, 92, 011905.	3.3	2
152	Origin of uniaxial magnetic anisotropy in epitaxial MnAs film on GaAs(001) substrate. Applied Physics Letters, 2008, 92, 082503.	3.3	14
153	Pressure dependence of magnetic entropy change and magnetic transition in $MnAs_{1-x}Ga_x$. Physical Review B, 2009, 79, .	3.2	39
154	Alteration of first-order phase transition by stress cycles in a MnAs layer on step-bunched GaAs. Physical Review B, 2009, 79, .	3.2	31
155	Properties of the Compounds with NiAs-Type (MnP-Type) and Cu2Sb-Type Structures. Springer Series in Materials Science, 2009, , 17-71.	0.6	0
156	One-dimensional alignment of nanoparticles via magnetic sorting. Applied Physics Letters, 2010, 96, 163103.	3.3	6
157	Prediction of realistic entropy behavior from mixed state magnetization data for first order phase transition materials. Journal of Applied Physics, 2010, 107, 09A912.	2.5	10
158	High-pressure phase transitions in NiAs-type compounds from first-principles calculations. Physical Review B, 2010, 81, .	3.2	18
159	Pressure and magnetic field dependence of valence and magnetic transitions in EuPtP. Journal of Physics Condensed Matter, 2010, 22, 226003.	1.8	13
160	Magnetocaloric Properties Desired for Magnetic Refrigeration System near Room Temperature. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	1
161	Mechanism of the phase transitions in MnAs. Physical Review B, 2011, 83, .	3.2	27
162	Pressure-tuned magnetocaloric effect in Mn $_{0.93}$ Cr $_{0.07}$ CoGe. Physical Review B, 2011, 84, .	3.2	171
163	MnP films and MnP nanocrystals embedded in GaP epilayers grown on GaP(001): Magnetic properties and local bonding structure. Journal of Applied Physics, 2011, 109, 113910.	2.5	11
164	Strain-induced high ferromagnetic transition temperature of MnAs epilayer grown on GaAs (110). Nanoscale Research Letters, 2011, 6, 125.	5.7	12
165	Magnetocrystalline anisotropy and uniaxiality of MnAs/GaAs(100) films. Physical Review B, 2011, 83, .	3.2	9

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166	Magnetic and structural phase diagram of CaMn_2Sb . Physical Review B, 2012, 86, .	3.2	23
167	Time resolved pump-probe scattering in $\text{MnAs/GaAs}(001)$: A look into the dynamics of \hat{I}_{\pm}^2 stripe domains. Applied Physics Letters, 2012, 100, 211905.	3.3	6
168	Magnetostructural phase transitions in manganese arsenide single crystals. Physics of the Solid State, 2012, 54, 1988-1995.	0.6	16
169	Effect of microstrain on the magnetism and magnetocaloric properties of $\text{MnAs}_{0.97}\text{P}_{0.03}$. Applied Physics Letters, 2012, 100, .	3.3	21
170	Heat-treatment effect in $\text{Mn}_{0.997}\text{Fe}_{0.003}\text{As}$ for magnetic refrigeration application. Journal of the Korean Physical Society, 2012, 60, 1049-1051.	0.7	7
171	The role of magnetoelastic and magnetostrictive energies in the magnetization process of MnAs/GaAs epilayers. Journal of Physics Condensed Matter, 2013, 25, 046003.	1.8	7
172	Emergence of pressure-induced metamagnetic-like state in Mn-doped CdGeAs_2 chalcopyrite. Applied Physics Letters, 2013, 103, 192403.	3.3	14
173	Pressure effect on the anomalies of the electric and magnetic properties of diluted magnetic semiconductor CdGeAs_2 doped with Mn. Physica Status Solidi (B): Basic Research, 2013, 250, 736-740.	1.5	6
174	The Effect of Pressure on Electronic and Magnetic Properties of MnAs Crystal. Journal of Computational Methods in Physics, 2013, 2013, 1-6.	0.5	0
175	Magnetization and Microstructure Dynamics in $\text{MnAs}_{1-x}\text{Fe}_x$. Physical Review Letters, 2014, 113, 247202.	7.8	26
176	Magnetocaloric Effect in (001)-Oriented MnAs Thin Film. Journal of Superconductivity and Novel Magnetism, 2014, 27, 263-267.	1.8	40
177	Polymorphic MnAs nanowires of a magnetic shape memory alloy. Physical Chemistry Chemical Physics, 2014, 16, 5649-5654.	2.8	0
178	DFT + U Analysis of Structural, Electronic, and Magnetic Properties of MnAsSb Ternary Systems. Journal of Superconductivity and Novel Magnetism, 2014, 27, 2263-2275.	1.8	15
179	Magnetoresistance control in granular $\text{Zn}_{1-x}\text{Cd}_x\text{Mn}_y\text{GeAs}_2$ nanocomposite ferromagnetic semiconductors. Journal of Applied Physics, 2015, 118, .	2.5	10
180	Atomically ordered $(\text{Mn,Ga})\text{As}$ crystallites on and within GaAs . Crystal Research and Technology, 2015, 50, 967-973.	1.3	1
181	Anomalous anisotropic compression behavior of superconducting CrAs under high pressure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14766-14770.	7.1	13
182	Magnetocaloric and barocaloric responses in magnetovolumic systems. Physical Review B, 2015, 91, .	3.2	11
183	Thermally induced magnetization switching in $\text{Fe/MnAs/GaAs}(001)$: selectable magnetic configurations by temperature and field control. Scientific Reports, 2015, 5, 8120.	3.3	14

#	ARTICLE	IF	CITATIONS
184	Extended magnetic exchange interactions in the high-temperature ferromagnet MnBi. Applied Physics Letters, 2016, 108, .	3.3	32
185	Ferromagnetism-dependent polytypism: CrAs versus MnAs. Solid State Communications, 2016, 247, 98-103.	1.9	5
186	Influence of chemical doping and hydrostatic pressure on the magnetic properties of Mn _{1-x} Fe _x magnetocaloric compounds. Physical Review B, 2016, 93, .	3.2	8
187	Changes in the magnetization hysteresis direction and structure-driven magnetoresistance of a chalcopyrite-based magnetic semiconductor. Journal Physics D: Applied Physics, 2016, 49, 125007.	2.8	10
188	In Depth Spatially Inhomogeneous Phase Transition in Epitaxial MnAs Film on GaAs(001). Nano Letters, 2017, 17, 2460-2466.	9.1	5
189	Crystal and magnetic properties of 57Fe doped MnAs for magnetic refrigeration application. Journal of the Korean Physical Society, 2017, 71, 575-578.	0.7	2
190	Magnetic field and pressure dependant resistivity behaviour of MnAs. Materials Research Express, 2018, 5, 046104.	1.6	1
191	Manganese Pnictides MnP, MnAs, and MnSb are Ferromagnetic Semimetals: Preparation, Structure, and Properties (a Survey). Russian Journal of Inorganic Chemistry, 2018, 63, 1753-1763.	1.3	15
192	Spectral fit refinement in XPS analysis technique and its practical applications. Journal of Electron Spectroscopy and Related Phenomena, 2018, 229, 132-140.	1.7	13
193	Features of Formation of the Magnetocaloric Phenomena in Mn _{1-x} Ti _x As and Mn _{1-x} Cr _x NiGe Systems. Physics of the Solid State, 2018, 60, 1125-1133.	0.6	3
194	Magnetocaloric Mn ₅ Si ₃ and MnFe ₄ Si ₃ at variable pressure and temperature. Materials Research Express, 2019, 6, 096118.	1.6	5
195	Magnetostructural phase transitions and magnetocaloric effect in Mn(As,P) compounds and their composites. Journal of Alloys and Compounds, 2019, 801, 428-437.	5.5	14
196	Giant reversible adiabatic temperature change and isothermal heat transfer of MnAs single crystals studied by direct method in high magnetic fields. Journal of Alloys and Compounds, 2019, 798, 810-819.	5.5	25
197	Superconductivity in WP single crystals. Physical Review B, 2019, 99, .	3.2	21
198	Ultrafast Structural Dynamics along the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\hat{I}^2 \rangle \langle \text{mml:mo} \hat{\sim} \rangle \langle \text{mml:mi} \hat{I}^3 \rangle \langle \text{mml:math} \rangle$ Phase Transition Path in MnAs. Physical Review Letters, 2019, 122, 145702.	7.8	6
199	Magnetocaloric effect in transition metal-based compounds. Handbook of Magnetic Materials, 2020, 29, 111-166.	0.6	2
200	Magnetic, magnetocaloric effect and resistivity behavior of Sb substituted MnAs. Journal of Alloys and Compounds, 2021, 862, 158322.	5.5	2
201	LOW-SPIN HIGH-SPIN TRANSITIONS IN MnAs AND RELATED COMPOUNDS UNDER HIGH MAGNETIC FIELDS. , 1983, , 175-178.		8

#	ARTICLE	IF	CITATIONS
202	Synthesis and characterization of Ca-doped LaMnAsO. Physical Review Materials, 2018, 2, .	2.4	2
203	NMR Study of Ferromagnetic Mn Intermetallic Compounds under High Pressure. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2003, 13, 304-309.	0.0	0
204	5.3.12 MnAs. , 2014, , 341-343.		0
205	Magnetostructural coupling from competing magnetic and chemical bonding effects. Physical Review Research, 2020, 2, .	3.6	1
209	Pressure-induced magnetic transformations in Cd ₃ As ₂ +MnAs hybrid composite. Applied Physics Letters, 2022, 120, .	3.3	1
210	Magnetization of Cd ₃ As ₂ ~30 mol % MnAs Composite at High Pressure. Technical Physics, 0, , .	0.7	0
211	Lattice instability and magnetic phase transitions in strongly correlated MnAs. Journal of Physics Condensed Matter, 2023, 35, 315401.	1.8	0
212	Effect of Magnetic Impurities on the Physical Properties of Cd ₃ As ₂ -Based Composites in Wide Temperature and Pressure Ranges. Journal of Surface Investigation, 2023, 17, 291-297.	0.5	0
213	Study of the electrophysical and magnetic properties of a Dirac 3D semimetal Cd ₃ As ₂ with nanogranules of MnAs. Zavodskaya Laboratoriya Diagnostika Materialov, 2023, 89, 52-59.	0.5	0
214	Mastering disorder in a first-order transition by ion irradiation. Physical Review Materials, 2024, 8, .	2.4	0