

Rie Y Umetsu

List of Publications by Year in descending order

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211
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211
docs citations

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times ranked

2382
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#	ARTICLE	IF	CITATIONS
1	Kinetic arrest of martensitic transformation in the NiCoMnIn metamagnetic shape memory alloy. Applied Physics Letters, 2008, 92, .	3.3	209
2	Magnetic properties of $Ni_{1-x}Co_xMnIn$ metamagnetic shape memory alloys by Mössbauer spectroscopy. Physical Review B, 2009, 80, .	3.2	58
3	Phase separation and magnetic properties of half-metal-type $Co_2Cr_{1-x}Fe_xAl$ alloys. Applied Physics Letters, 2004, 85, 4684-4686.	3.3	117
4	Atomic ordering and magnetic properties in the $Ni_{45}Co_5Mn_{36.7}In_{13.3}$ metamagnetic shape memory alloy. Applied Physics Letters, 2008, 93, .	3.3	109
5	Magnetic field-induced reverse transformation in B2-type NiCoMnAl shape memory alloys. Applied Physics Letters, 2008, 93, .	3.3	108
6	Martensitic transformation and magnetic field-induced strain in $Fe_{1-x}Mn_xGa$ shape memory alloy. Applied Physics Letters, 2009, 95, .	3.3	103
7	Magnetic properties of the half-metallic Heusler alloys $Co_2Cr_{1-x}Fe_xAl$. Physical Review B, 2010, 82, .	3.2	99
8	Magnetic properties and band structures of half-metal-type Co_2CrGa Heusler alloy. Applied Physics Letters, 2004, 85, 2011-2013.	3.3	97
9	Half-metallic properties of $Co_2(Cr_{1-x}Fe_x)Ga$ Heusler alloys. Physical Review B, 2005, 72, .	3.2	92
10	Anomaly in entropy change between parent and martensite phases in the $Ni_{50}Mn_{34}In_{16}$ Heusler alloy. Scripta Materialia, 2009, 60, 25-28.	5.2	90
11	Mössbauer study on martensite phase in $Ni_{50}Mn_{36.5}Fe_{0.557}Sn_{13}$ metamagnetic shape memory alloy. Applied Physics Letters, 2008, 93, .	3.3	83
12	Kinetic arrest behavior in martensitic transformation of NiCoMnSn metamagnetic shape memory alloy. Journal of Alloys and Compounds, 2011, 509, 1389-1393.	5.5	78
13	Magnetic properties and stability of L21 and B2 phases in the Co_2MnAl Heusler alloy. Journal of Applied Physics, 2008, 103, .	2.5	74
14	Concentration dependence of magnetic moment in $Ni_{50-x}Co_xMn_{50-y}Zn_y$ ($Z=In,Sn$) Heusler alloys. Applied Physics Letters, 2010, 97, .	3.3	69
15	Direct measurement of large reversible magnetic-field-induced strain in $Ni_{1-x}Co_xMn_{1-x}In$ metamagnetic shape memory alloys. Acta Materialia, 2012, 60, 6883-6891.	7.9	69
16	First-principles study of the magnetic structures of ordered and disordered Mn-Ir alloys. Physical Review B, 2003, 67, .	3.2	67
17	Martensitic transition, ferromagnetic transition, and their interplay in the shape memory alloys $Ni_{1-x}Co_xMn_{1-x}In$. Physical Review B, 2010, 82, .	3.2	67
18	Phase stability and magnetic properties of $Ni_{50}Mn_{50-x}In_x$ Heusler-type alloys. Scripta Materialia, 2010, 62, 151-154.	5.2	65

#	ARTICLE	IF	CITATIONS
19	Powder neutron diffraction studies for the L21 phase of Co ₂ YGa (Y=Ti, V, Cr, Mn and Fe) Heusler alloys. Journal of Alloys and Compounds, 2010, 499, 1-6.	5.5	65
20	Atomic ordering and magnetic properties in Ni ₂ Mn(Ga Al _{1-x}) Heusler alloys. Acta Materialia, 2008, 56, 4789-4797.	7.9	61
21	The effect of Co substitution on the magnetic properties of the Heusler alloy Ni ₅₀ Mn ₃₃ Sn ₁₇ . Applied Physics Letters, 2011, 98, .	3.3	59
22	Magnetic anisotropy energy of antiferromagnetic L10-type equiatomic Mn alloys. Applied Physics Letters, 2006, 89, 052504.	3.3	56
23	Kinetic Arrest of Martensitic Transformation in NiCoMnAl Metamagnetic Shape Memory Alloy. Materials Transactions, 2010, 51, 1357-1360.	1.2	56
24	Phase equilibria in the Mn-rich portion of Mn-Ga binary system. Journal of Alloys and Compounds, 2012, 537, 332-337.	5.5	55
25	Metamagnetic shape memory effect in polycrystalline NiCoMnSn alloy fabricated by spark plasma sintering. Scripta Materialia, 2009, 61, 504-507.	5.2	54
26	NiMn-based metamagnetic shape memory alloys. Scripta Materialia, 2016, 116, 1-6.	5.2	51
27	Magnetic properties, phase stability, electronic structure, and half-metallicity of L_{21} Heusler alloys. Journal of Alloys and Compounds, 2012, 537, 332-337.		

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37	Phase stability and magnetic properties of L21 phase in $\text{Co}_2\text{Mn}(\text{Al}_{1-x}\text{Si}_x)$ Heusler alloys. <i>Scripta Materialia</i> , 2008, 58, 723-726.	5.2	36
38	Anomaly of critical stress in stress-induced transformation of NiCoMnIn metamagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	36
39	The Thermal Transformation Arrest Phenomenon in NiCoMnAl Heusler Alloys. <i>Metals</i> , 2013, 3, 298-311.	2.3	34
40	Annealing temperature dependence of crystal structures and magnetic properties of Fe_2CrAl and Fe_2CrGa Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2012, 528, 34-39.	5.5	33
41	Kinetic Arrest of Martensitic Transformation in $\text{Ni}_{33.0}\text{Co}_{13.4}\text{Mn}_{39.7}\text{Ga}_{13.9}\text{In}_{1.0}$ Metamagnetic Shape Memory Alloy. <i>Materials Transactions</i> , 2010, 51, 469-471.	2.1	32
42	Determination of the magnetic ground state in the martensite phase of $\text{Ni}_{50}\text{Mn}_{34.4}\text{In}_{15.6}$ ($Z=$ In,) Tj ETQq0 0 0 rgBT /Overlock Condensed Matter, 2011, 23, 326001.	1.8	32
43	Electrical and Magnetic Properties, and Electronic Structures of Pseudo-Gap-Type Antiferromagnetic MnPt Alloys. <i>Materials Transactions</i> , 2006, 47, 2-10.	1.2	31
44	Magnetic properties and phase stability of $\text{Co}_2\text{Cr}(\text{Ga},\text{Si})$ Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2014, 588, 153-157.	5.5	31
45	Phase stability of B2 and L21 ordered phases in Co_2YGa ($Y=\text{Ti}, \text{V}, \text{Cr}, \text{Mn}, \text{Fe}$) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1794-1795.	2.3	29
46	Spin Wave-Stiffness Constants of Half-Metallic Ferromagnets Co_2YZ ($Y=\text{Cr}, \text{Mn}$), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	29
47	Electronic structure and magnetic properties of the half-metallic ferrimagnet Mn_2Mn by soft x-ray spectroscopies. <i>Physical Review B</i> , 2018, 97, .	2.2	29
48	Magnetoresistance and Transformation Hysteresis in the $\text{Ni}_{50}\text{Mn}_{34.4}\text{In}_{15.6}$ Metamagnetic Shape Memory Alloy. <i>Materials Transactions</i> , 2013, 54, 291-296.	1.2	27
49	Pressure effect on the magnetic properties of the half-metallic Heusler alloy $\text{Co}_2\text{Mn}_2\text{Mn}$ <i>Physical Review B</i> , 2018, 97, .	2.2	27
50	Magnetic properties and phase stability of half-metal-type $\text{Co}_2\text{Cr}_{1-x}\text{Fe}_x\text{Ga}$ alloys. <i>Journal of Alloys and Compounds</i> , 2005, 399, 60-63.	5.5	26
51	Thermal and Electrical Transport Properties of Zr-Based Bulk Metallic Glassy Alloys with High Glass-Forming Ability. <i>Materials Transactions</i> , 2012, 53, 1721-1725.	1.2	25
52	Electrical and calorimetric evidences of a pseudo-gap in antiferromagnetic equiatomic MnPd alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 239, 530-532.	2.3	24
53	Concentration dependence of the Néel temperature of $\text{Mn}_{100-x}\text{Rh}_x$ ordered alloys. <i>Journal of Alloys and Compounds</i> , 1998, 279, 93-96.	5.5	23
54	Magnetic structures and their stability in Mn_3R ordered and disordered alloys. <i>Physical Review B</i> , 2002, 66, .	3.2	22

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55	Pseudogap in the density of states and the highest Néel temperature of the L10-type MnIr alloy system. <i>Physical Review B</i> , 2004, 69, .	3.2	22
56	Magnetocrystalline anisotropy in Fe-Mn-Ga magnetic shape memory alloy. <i>Scripta Materialia</i> , 2011, 64, 669-672.	5.2	22
57	Crystallographic study of the ferromagnetic shape memory alloys Ni ₂ MnGa. <i>Physical Review B</i> , 2004, 69, 104411.	3.2	22
58	Pd-In-Fe shape memory alloy. <i>Applied Physics Letters</i> , 2007, 90, 261906.	3.3	21
59	Anomalous physical properties of Heusler-type Co ₂ MnCr(Ga _{1-x} Z _x) (Z=Si, Ge, and Sn) Heusler alloys and thermodynamic study on reentrant martensitic transformation. <i>Physical Review B</i> , 2015, 91, .	3.2	21
60	Visualizing Half-Metallic Bulk Band Structure with Multiple Weyl Cones of the Heusler Ferromagnet. <i>Physical Review Letters</i> , 2020, 125, 216403.	7.8	21
61	Magnetic properties and phase stability of L21 phase in Co ₂ Mn(Ga _{1-x} Z _x) (Z=Si, Ge, and Sn) Heusler alloys. <i>Applied Physics Letters</i> , 2010, 96, 222507.	3.3	20
62	Anisotropy of Magnetostriction of Functional BCC Iron-Based Alloys. <i>Materials Transactions</i> , 2019, 60, 2235-2244.	1.2	20
63	Structure and properties of nanoporous FePt fabricated by dealloying a melt-spun Fe ₆₀ Pt ₂₀ B ₂₀ alloy and subsequent annealing. <i>Journal of Materials Science and Technology</i> , 2020, 36, 128-133.	10.7	20
64	Martensitic Transformation in NiCoMnSn Metamagnetic Shape Memory Alloy Powders. <i>Materials Transactions</i> , 2008, 49, 1915-1918.	1.2	19
65	Magnetic field hysteresis under various sweeping rates for Ni-Co-Mn-In metamagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2013, 103, 122406.	3.3	19
66	Magnetic Moment of Cu-Modified Ni ₂ MnGa Magnetic Shape Memory Alloys. <i>Metals</i> , 2013, 3, 114-122.	2.3	19
67	The Néel temperature of Mn _{100-x} Rh _x alloys in ordered and disordered states. <i>Journal of Applied Physics</i> , 1999, 85, 4741-4743.	2.5	18
68	Concentration dependence of magnetic and electrical properties of gap-type antiferromagnetic MnPt alloys. <i>Journal of Applied Physics</i> , 2002, 91, 8873.	2.5	18
69	NiMn-Based Metamagnetic Shape Memory Alloys. <i>Materials Science Forum</i> , 0, 635, 23-31.	0.3	18
70	Effects of the antiferromagnetic anti-phase domain boundary on the magnetization processes in Ni ₂ Mn(Ga _{0.5} Al _{0.5}) Heusler alloy. <i>Scripta Materialia</i> , 2011, 65, 41-44.	5.2	18
71	Spin Stiffness Constant of Half-metallic Ferrimagnet in Mn-based Heusler Alloys. <i>Physics Procedia</i> , 2015, 75, 890-897.	1.2	18
72	Phase equilibria and magnetic properties of Heusler-type ordered phases in the Co-Mn-Ga ternary system. <i>Journal of Alloys and Compounds</i> , 2015, 645, 577-585.	5.5	18

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73	Reactive sintering process of ferromagnetic MnBi under high magnetic fields. Journal of Magnetism and Magnetic Materials, 2018, 453, 231-235.	2.3	18
74	Lattice distortions and the magnetic susceptibility of $\hat{\Gamma}^3$ -MnRh disordered alloys. Journal of Alloys and Compounds, 2000, 309, 16-19.	5.5	17
75	Atomic site preference, the Néel temperature and specific heat of $\hat{\Gamma}^2$ -Mn $_{1-x}$ Ru $_x$ alloys. Journal of Alloys and Compounds, 2001, 325, 24-28.	5.5	17
76	Mechanical and shape memory properties of Ni ₄₃ Co ₇ Mn ₃₉ Sn ₁₁ alloy compacts fabricated by pressureless sintering. Scripta Materialia, 2010, 63, 1236-1239.	5.2	16
77	Spin fluctuation, thermal expansion anomaly, and pressure effects on the Néel temperature of $\hat{\Gamma}^2$ -MnM (M=Ru, Os, and Ir) alloys. Physical Review B, 2005, 72, .	3.2	15
78	Magnetic Phase Diagram of the Ferromagnetic Shape Memory Alloys Ni _{1-x} Mn _{2x} Ga _{1-x} Cu _x . Materials Science Forum, 0, 684, 165-176.	0.3	15
79	Magnetic and structural properties of MnCo _{1-x} FexGe (0 ≤ x ≤ 0.12). AIP Conference Proceedings, 2016, , .	0.4	15
80	Atomic ordering, magnetic properties, and electronic structure of Mn ₂ CoGa Heusler alloy. Journal of Physics Condensed Matter, 2019, 31, 065801.	1.8	15
81	Concentration dependence of the Neel temperature of $\hat{\Gamma}^3$ -phase Mn _{100-x} Ru _x alloys. IEEE Transactions on Magnetics, 1999, 35, 3910-3912.	2.1	14
82	X-ray diffraction and magnetic properties of $\hat{\Gamma}^2$ -Mn $_{1-x}$ Osx alloys. Journal of Alloys and Compounds, 2000, 311, 124-129.	5.5	14
83	Magnetic properties of Mn-rich Pd ₂ MnSn Heusler alloys. Journal of Alloys and Compounds, 2010, 505, 29-33.	5.5	14
84	Magnetic phase diagram of ferromagnetic shape memory alloys. Journal of Alloys and Compounds, 2014, 591, 280-285.	5.5	14
85	Magnetic Properties of Cr-based Ternary Compound CrAlGe. Physics Procedia, 2015, 75, 918-925.	1.2	14
86	Substitution Effects of Cr or Fe on the Curie Temperature for Mn-Based Layered Compounds MnAlGe and MnGaGe With Cu ₂ Sb-Type Structure. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	13
87	Effect of P addition on the structure and magnetic properties of melt-spun Fe ϵ -Pt ϵ -B alloy. Journal of Alloys and Compounds, 2014, 586, S294-S297.	5.5	13
88	Magnetic Field-Induced Reverse Martensitic Transformation and Thermal Transformation Arrest Phenomenon of Ni ₄₁ Co ₉ Mn ₃₉ Sb ₁₁ Alloy. Metals, 2014, 4, 609-622.	2.3	13
89	Magnetic Phase Diagram of Heusler Alloy System Ni ₂ Mn _{1-Cr} Ga. Physics Procedia, 2015, 75, 1187-1191.	1.2	13
90	Magnetic field effects on liquid-phase reactive sintering of MnBi. Journal of Magnetism and Magnetic Materials, 2016, 400, 304-306.	2.3	13

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91	Very high antiferromagnetic stability of L10-type MnIr alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 790-791.	2.3	12
92	Shape Memory Response in Ni ₄₀ Co ₁₀ Mn ₃₃ Al ₁₇ Polycrystalline Alloy. Materials Transactions, 2010, 51, 525-528.		12
93	Influence of Annealing Conditions on Magnetic Properties of Ni ₅₀ Mn _{50-x} In _x Heusler-Type Alloys. Materials Transactions, 2011, 52, 1836-1839.	1.2	12
94	Structural and Magnetic Properties of Magnetic Shape Memory Alloy Ni ₄₆ Mn ₄₁ In ₁₃ under Magnetic Fields. Materials Transactions, 2014, 55, 477-481.	1.2	12
95	Enhancement of the Phase Formation Rate during In-Field Solid-Phase Reactive Sintering of Mn-Bi. Materials Transactions, 2017, 58, 720-723.	1.2	12
96	Half-metallicity of the ferrimagnet M_nMn_2VA revealed by resonant inelastic soft x-ray scattering in a magnetic field. Physical Review B, 2019, 99, .	3.2	12
97	Specific heat and thermal expansion characteristics related to spin fluctuations in antiferromagnetic \hat{I}^2 -MnOs alloys. Journal of Physics Condensed Matter, 2001, 13, 3809-3816.	1.8	11
98	Lattice distortions and phase diagram of antiferromagnetic \hat{I}^3 -MnIr disordered alloy system. Journal of Alloys and Compounds, 2003, 352, 21-25.	5.5	11
99	Phase stability and magnetic properties of Co ₂ (Ti $\hat{1}$ Fe)Ga Heusler alloys. Scripta Materialia, 2008, 59, 830-833.	5.2	11
100	Observation of Reverse Transformation in Metamagnetic Shape Memory Alloy Ni ₄₀ Co ₁₀ Mn ₃₄ Al ₁₆ by High-Field X-Ray Diffraction Measurements. Materials Transactions, 2010, 51, 1648-1650.		11
101	Suppression of ferromagnetism within antiphase boundaries in Ni ₅₀ Mn ₂₅ Al _{12.5} Ga _{12.5} alloy. Scripta Materialia, 2011, 65, 895-898.	5.2	11
102	Magnetic-Field-Induced Acceleration of Phase Formation in \hat{I} , -Mn-Al. Materials Transactions, 2017, 58, 1511-1518.	1.2	11
103	Antiferromagnetism and low-temperature specific heat of \hat{A} -Mn $\hat{1}$ Al $\hat{1}$ alloys. Journal of Physics Condensed Matter, 2003, 15, 4605-4612.	1.8	10
104	Electronic specific heat coefficient and magnetic properties of L_{1-2} phase in Co ₂ Y _{1-x} Ga _x (Y = Cr, Mn and Fe) Heusler alloys. Journal of Physics: Conference Series, 2010, 200, 062036.	0.4	10
105	Normal and inverse magnetocaloric effects in the ferromagnetic shape memory alloys. Journal of Magnetism and Magnetic Materials, 2014, 361, 34-43.	2.3	10
106	Magnetic and Structural Properties of Metamagnetic MnCo _{0.92} Fe _{0.08} Ge Compound. Materials Transactions, 2016, 57, 316-320.	1.2	10
107	Metamagnetic Shape Memory Effect and Magnetic Properties of Ni-Mn Based Heusler Alloys. Materials Science Forum, 0, 684, 139-150.	0.3	9
108	Magnetic phase diagram of Heusler alloys Pd ₂ Mn _{1+x} Sn $\hat{1}$ ^x . Journal of Alloys and Compounds, 2013, 554, 335-339.	5.5	9

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109	Phase diagram and magnetic moment of Ni ₅₀ Mn ₂₇ Ga ₂₃ ferromagnetic shape memory alloys. Journal of Alloys and Compounds, 2013, 579, 521-528.	5.5	9
110	Competing exchange interactions and magnetic anisotropy of La ¹⁺ Tb Mn ₂ Si ₂ . Journal of Magnetism and Magnetic Materials, 2017, 422, 237-242.	2.3	9
111	Magnetic properties of weak itinerant electron ferromagnet CrAlGe. Journal of Physics: Conference Series, 2017, 868, 012018.	0.4	9
112	Magnetovolume effects and spin fluctuations in Mn ₃ Rh _{1-x} alloys. Journal of Physics Condensed Matter, 2003, 15, 4589-4604.	1.8	8
113	Thermal expansion characteristics related to spin fluctuations and the pressure effect on the Néel temperature of \hat{A} -MnOs alloys. Journal of Physics Condensed Matter, 2003, 15, 4817-4825.	1.8	8
114	Soft x-ray magnetic circular dichroism of L_{23} -type Co ₂ FeGa Heusler alloy. Journal Physics D: Applied Physics, 2010, 43, 105001.	2.8	8
115	Martensitic transition of Mn-rich Pd ¹⁺ Mn ¹⁺ Sn alloy. Journal of Alloys and Compounds, 2012, 541, 392-395.	5.5	8
116	Repulsive magneto-structural interaction in the ferromagnetic shape memory alloys Ni ₂ Mn _{1+x} In ¹⁺ . Journal of Magnetism and Magnetic Materials, 2013, 327, 125-131.	2.3	8
117	Optical Microscopic Study on NiCoMnAl Metamagnetic Shape Memory Alloy by <i>In Situ</i> Observation under a Pulsed High Magnetic Field. Materials Transactions, 2013, 54, 357-362.	1.2	8
118	Magnetic properties of Ni ₂ N. Physica B: Condensed Matter, 2014, 449, 85-89.	2.7	8
119	Evidence of Change in the Density of States during the Martensitic Phase Transformation of Ni-Mn-In Metamagnetic Shape Memory Alloys. Metals, 2017, 7, 414.	2.3	8
120	Perpendicularly magnetized Cu ₂ Sb type (Mn-Cr)AlGe films onto amorphous SiO ₂ . Applied Physics Express, 2019, 12, 103002.	2.4	8
121	Transport properties of ferrimagnetic Mn ₂ CoSn Heusler alloy. Journal of Magnetism and Magnetic Materials, 2019, 485, 193-196.	2.3	8
122	NMR/NQR study in \hat{I}^2 -MnOs alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 503-504.	2.3	7
123	Effective Exchange Constant and Electronic Structure of Pseudo-Gap-Type L ₁₀ -MnPd Alloys. Journal of the Physical Society of Japan, 2006, 75, 104714.	1.6	7
124	Metamagnetic Shape Memory Effect in Porous Ni ₄₃ Co ₇ Mn ₃₉ Sn ₁₁ Alloy Compacts Fabricated by Pressureless Sintering. Materials Transactions, 2011, 52, 2270-2273.	1.2	7
125	Magnetic properties of Co ₅₀ Ni _x Mn ₂₅ Al ₂₅ alloys with B_2 structure. Journal of Applied Physics, 2011, 109, .	2.5	7
126	Drastic change in density of states upon martensitic phase transition for metamagnetic shape memory alloy Ni ₂ Mn _{1+x} In ¹⁺ . Journal of Physics Condensed Matter, 2015, 27, 362201.	1.8	7

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127	Magnetic field effects on reactive sintering of MnBi. AIP Conference Proceedings, 2016, , .	0.4	7
128	Martensitic transformation and shape memory effect in Pd ₅₀ Mn ₅₀ ~Ga alloys. Journal of Alloys and Compounds, 2019, 805, 379-387.	5.5	7
129	Different Magnetic Field Effects on the ϵ -Phase Transformation Between (Mn,Zn)~Al and Mn~Al~C. IEEE Transactions on Magnetism, 2019, 55, 1-4.	2.1	7
130	Magnetic field-induced nitridation of Sm ₂ Fe ₁₇ . Journal of Alloys and Compounds, 2020, 835, 155193.	5.5	7
131	Large spontaneous volume magnetostriction of Mn-Rh alloys. IEEE Transactions on Magnetism, 1999, 35, 3799-3801.	2.1	6
132	Magnetic anisotropy of La _{0.75} Sm _{0.25} Mn ₂ Si ₂ compound. Journal of Physics Condensed Matter, 2007, 19, 486202.	1.8	6
133	Pseudogap formation in MnPt and MnPd alloys. Applied Physics Letters, 2007, 90, 091911.	3.3	6
134	Electronic Structures and Magnetic Phase Stability of L ₁ and B ₂ -Type MnRh Equiatomic Alloys. Journal of the Physical Society of Japan, 2007, 76, 104712.	1.6	6
135	Site occupancy and magnetic moment of Fe in Ni ₂ Mn _{0.3} Fe _{0.7} Ga alloy by neutron powder diffraction study. Journal of Alloys and Compounds, 2013, 580, 506-511.	5.5	6
136	Temperature dependence of a resonance frequency of ⁵⁹ Co NMR in a ferromagnetic Heusler alloy Co ₂ FeSi. Journal of Alloys and Compounds, 2013, 551, 208-211.	5.5	6
137	PHASE STABILITY OF L ₂ PHASE IN Co-BASED HEUSLER ALLOYS. Spin, 2014, 04, 1440018.	1.3	6
138	Magnetic and structural properties of Mn~Cr AlGe (0$\leq x \leq 1.0$). Journal of Magnetism and Magnetic Materials, 2018, 456, 104-107.	2.3	6
139	Investigation of the Itinerant Electron Ferromagnetism of Ni _{2+x} MnGa _{1-x} and Co ₂ VGa Heusler Alloys. Materials, 2019, 12, 575.	2.9	6
140	Perpendicular magnetic anisotropy of (001)-textured poly-crystalline MnAlGe films. AIP Advances, 2020, 10, 015122.	1.3	6
141	Seeded Growth of Type-II Na ₂₄ Si ₁₃₆ Clathrate Single Crystals. Crystals, 2021, 11, 808.	2.2	6
142	Magnetic properties of Mn-rich Rh ₂ Mn _{1+Sn} ~ Heusler alloys. Physica B: Condensed Matter, 2012, 407, 311-315.	2.7	5
143	Magnetic phase diagram of Ni ₂ Mn _{1.44} ~xCu _x Sn _{0.56} shape memory alloys. Journal of Alloys and Compounds, 2014, 590, 221-226.	5.5	5
144	High field X-ray diffraction measurements of Mn ₂ Sb _{0.95} Ge _{0.05} . AIP Conference Proceedings, 2016, , .	0.4	5

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145	Effects of Annealing Temperature and Magnetic Field on the ϵ Phase Transformation in Mn-Al Alloys. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	5
146	Temperature Dependences of the Electrical Resistivity on the Heusler Alloy System $\text{Ni}_2\text{MnGa}_{1-x}\text{Fe}_x$. Metals, 2017, 7, 413.	2.3	5
147	Heat treatment effect on the magnetic properties and martensitic transformations of MnCoGe. Journal of Magnetism and Magnetic Materials, 2020, 499, 166199.	2.3	5
148	Temperature dependence of exchange stiffness in an off-stoichiometric $\text{N}_{1-x}\text{Mn}_x\text{MnIn}_2$ Heusler alloy. Physical Review B, 2020, 101, .	3.2	5
149	Magnetic-field-induced selective retardation of reaction in Mn/Ga diffusion couple. Journal of Alloys and Compounds, 2021, 887, 161310.	5.5	5
150	Magnetoresistivity of CePb ₂ heavy fermion compound. Journal of Physics Condensed Matter, 2000, 12, 2461-2468.	1.8	4
151	Effect of Hydrogen Absorption on Electrical Transport Properties for $\text{Ni}_{36}\text{Nb}_{24}\text{Zr}_{40}$ Amorphous Alloy Ribbons. Materials Transactions, 2013, 54, 1339-1342.	1.2	4
152	Mössbauer Spectroscopy Studies on Magnetic Properties for ⁵⁷ Fe-substituted Ni-Mn-Sn Metamagnetic Shape Memory Alloys. Metals, 2013, 3, 225-236.	2.3	4
153	Magnetic Properties of the Ferromagnetic Shape Memory Alloys $\text{Ni}_{50+x}\text{Mn}_{27-x}\text{Ga}_{23}$ in Magnetic Fields. Materials, 2014, 7, 3715-3734.	2.9	4
154	Phase Stabilities and Magnetic Properties of Mn-Deficient and Ge-Substituted Mn_3Ga With D0 ₂₂ Structure. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	4
155	Magnetization and Spin Polarization of Heusler Alloys $\text{Co}_{1-x}\text{Ti}_x\text{Sn}$ and $\text{Co}_{0.5}\text{Ti}_{0.5}\text{Sn}$. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	4
156	In-Field Heat Treatment Effect on Nitridation of $\text{Sm}_2\text{Fe}_{17}$. Materials Transactions, 2019, 60, 2179-2182.	1.2	4
157	Perpendicular magnetic anisotropy in ultra-thin Cu_2Sb -type $(\text{Mn}^{\delta}\text{Cr})\text{AlGe}$ films fabricated onto thermally oxidized silicon substrates. Applied Physics Letters, 2021, 118, .	3.3	4
158	Magnetic Field Effect on Nitrogenation of $\text{Sm}_2\text{Fe}_{17}$. Materials Transactions, 2020, 61, 1487-1491.	1.2	4
159	Three-dimensional bulk Fermi surfaces and Weyl crossings of $\text{Co}_2\text{Mn}_x\text{Sn}_{2-x}$ thin films underneath a protection layer. Physical Review B, 2021, 104, .	3.2	4
160	Magnetic properties and phase stability of $\text{Co}_2(\text{Ti}_{1-x}\text{Mn}_x)\text{Ga}$ Heusler alloys. Journal of Physics: Conference Series, 2010, 200, 062018.	0.4	3
161	Temperature dependence of differential conductance in Co-based Heusler alloy Co_2TiSn and superconductor Pb junctions. Physica B: Condensed Matter, 2018, 536, 289-292.	2.7	3
162	Microstructure, Morphology and Magnetic Property of (001)-Textured MnAlGe Films on Si/SiO_2 Substrate. Materials Transactions, 2021, 62, 680-687.	1.2	3

#	ARTICLE	IF	CITATIONS
163	Detecting halfmetallic electronic structures of spintronic materials in a magnetic field. Scientific Reports, 2021, 11, 18654.	3.3	3
164	Local ordering and interatomic bonding in magnetostrictive Fe $\langle \text{math display="inline" id="d1e222"> \text{si1.svg} \rangle$ ₀ $\langle \text{math display="inline" id="d1e234"> \text{si2.svg} \rangle$ ₀ Al ₈ Ga ₈ alloys. Journal of Applied Physics, 2011, 109, 07A926.	3.0	3
165	[110]TA1Phonon Branch and Anomalous 2/3[110] Elastic Peak in Heusler and B2 Phases of a AuCuZn2Alloy. Journal of the Physical Society of Japan, 1994, 63, 995-1000.	1.6	2
166	Concentration dependence of magnetic moment in Ni ₅₀ Mn _{50-x} In _x /Sb _x /2 alloys with Heusler structure. Journal of Applied Physics, 2011, 109, 07A926.	2.5	2
167	Cooling Rate and Composition Dependences of Magnetic Susceptibility for Zr _{54-x} Al ₈ Ag ₈ Alloys. Materials Transactions, 2013, 54, 1356-1360.	2.0	2
168	The effect of pressure on the magnetic and structural transition temperatures of the shape memory alloys Ni _{50+x} (Mn _{0.5} Fe _{0.5}) ₂₅ Ga _{25-x} . Physica B: Condensed Matter, 2015, 464, 83-87.	2.7	2
169	Thermal Transformation Arrest Phenomena in Mn ₂ Sb _{0.9} Sn _{0.1} . IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	2
170	Pressure Effect on Magnetic Properties of Weak Itinerant Electron Ferromagnet CrAlGe. Journal of the Physical Society of Japan, 2018, 87, 014701.	1.6	2
171	Quasi-First Order Magnetic Transition in Mn _{1.9} Fe _{0.1} Sb _{0.9} Sn _{0.1} . Materials Transactions, 2018, 59, 348-352.	1.7	2
172	Synthesis of Ferromagnetic $\bar{1}$ -MnAlC by Reactive Sintering. Materials Transactions, 2021, 62, 130-134.	1.2	2
173	MgO template effect for perpendicular magnetic anisotropy in (001)-textured poly-crystalline MnAlGe films. AIP Advances, 2021, 11, 015124.	1.3	2
174	High-density magnetic-vacancy inclusion in Co ₂ MnGa single crystal probed by spin-polarized positron annihilation spectroscopy. Journal of Physics Condensed Matter, 2022, 34, 045701.	1.8	2
175	Acceleration of B2/L21 order-disorder transformation in Ni ₂ MnAl Heusler alloys by in-magnetic-field annealing. Journal of Magnetism and Magnetic Materials, 2022, 547, 168908.	2.3	2
176	Effect of disorder and vacancy defects on electrical transport properties of Co ₂ MnGa thin films grown by magnetron sputtering. Journal of Applied Physics, 2021, 130, .	2.5	2
177	Structural, electrical, magnetic and low-temperature specific heat studies of PrPb ₂ . Journal of Alloys and Compounds, 1998, 264, 24-30.	5.5	1
178	Magnetic Properties and Electronic Structures of L10-Type MnTM (TM: Ir, Pt, Pd and Ni) Alloy Systems. ChemInform, 2005, 36, no.	0.0	1
179	Magnetic Properties and Phase Stability of the Half-metal-type Co-based Heusler Alloys. Materia Japan, 2010, 49, 462-470.	0.1	1
180	NiMnX Heusler Materials. Springer Series in Materials Science, 2012, , 49-65.	0.6	1

#	ARTICLE	IF	CITATIONS
199	In-Magnetic-Field Annealing for Mn-Based Alloys. , 2016, , .		0
200	Magnetic Field Effects on the Morphology of Bi-Mn System. , 2016, , .		0
201	Magnetic properties of Mn _{1-x} TM _x AlGe (TM = V, Fe, Cu) with Cu ₂ Sb-type structure. AIP Advances, 2018, 8, .	1.3	0
202	Applications of Amorphous Alloy/Metallic Glass for Environmental and Energy Engineering, Electronics Engineering, and Biomedical Engineering Fields. , 2019, , 23-59.		0
203	Magnetic-Field-Induced Enhancement of Phase Transformation in Ferromagnetic $\bar{1}$,,-Mn-Al. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 181-185.	0.4	0
204	Critical Behavior of the Magnetization in Heusler Alloy Co ₂ TiGa ₂ Sn. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	0
205	Magnetic properties and application of microparticulated Ni-Co-Mn-Sn metamagnetic shape memory alloy. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2009, 17, 141-145.	0.0	0
206	Mn L _{2,3} -edge EXAFS and Magnetic EXAFS Studies on the Halfmetallic Ferromagnet Co ₂ MnSi. Journal of the Physical Society of Japan, 2022, 91, .	1.6	0
207	Characterization of Fe-Ni-Pt(Zr) magnetron deposited thin films subjected to low-temperature annealing. Thin Solid Films, 2022, 756, 139347.	1.8	0