

Ya Mudryk

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154
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160
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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
154	On the nature of the magnetocaloric effect of the first-order magnetostructural transition. <i>Scripta Materialia</i> , 2012 , 67, 572-577	5.6	137
153	Material-based figure of merit for caloric materials. <i>Journal of Applied Physics</i> , 2018 , 123, 034902	2.5	119
152	Barocaloric effect in the magnetocaloric prototype Gd ₅ Si ₂ Ge ₂ . <i>Applied Physics Letters</i> , 2012 , 101, 071906	6.4	102
151	Thermoelectricity of clathrate I Si and Ge phases. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 7991-8008	0.8	79
150	Influence of the electronic structure on the ductile behavior of B2 CsCl-type AB intermetallics. <i>Acta Materialia</i> , 2009 , 57, 5876-5881	8.4	77
149	Making the most of the magnetic and lattice entropy changes. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 3541-3547	2.8	71
148	Role of Ge in bridging ferromagnetism in the giant magnetocaloric Gd ₅ (Ge _{1-x} Si _x) ₄ alloys. <i>Physical Review Letters</i> , 2007 , 98, 247205	7.4	61
147	Crystal structure-magnetic property relationships of Gd ₅ Ge ₄ examined by in situ x-ray powder diffraction. <i>Physical Review B</i> , 2005 , 72,	3.3	59
146	Non-hysteretic first-order phase transition with large latent heat and giant low-field magnetocaloric effect. <i>Nature Communications</i> , 2018 , 9, 2925	17.4	54
145	Ultrafast terahertz snapshots of excitonic Rydberg states and electronic coherence in an organometal halide perovskite. <i>Nature Communications</i> , 2017 , 8, 15565	17.4	50
144	Synthesis and characterization of low viscosity hexafluoroacetylacetonate-based hydrophobic magnetic ionic liquids. <i>New Journal of Chemistry</i> , 2017 , 41, 5498-5505	3.6	42
143	Giant enhancement of the magnetocaloric response in Ni ₂ CoMnTi by rapid solidification. <i>Acta Materialia</i> , 2019 , 173, 225-230	8.4	42
142	Designed materials with the giant magnetocaloric effect near room temperature. <i>Acta Materialia</i> , 2019 , 180, 341-348	8.4	41
141	Best practices in evaluation of the magnetocaloric effect from bulk magnetization measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 458, 301-309	2.8	38
140	Crystallography, anisotropic metamagnetism, and magnetocaloric effect in Tb ₅ Si _{2.2} Ge _{1.8} . <i>Physical Review B</i> , 2007 , 75,	3.3	38
139	Crystal chemistry and thermoelectric properties of clathrates with rare-earth substitution. <i>Physica B: Condensed Matter</i> , 2003 , 328, 44-48	2.8	36
138	Polymorphism of Gd ₅ Si ₂ Ge ₂ : The equivalence of temperature, magnetic field, and chemical and hydrostatic pressures. <i>Physical Review B</i> , 2005 , 71,	3.3	33

137	Magnetostructural transition in Gd ₅ Si _{0.5} Ge _{3.5} : Magnetic and x-ray powder diffraction measurements, and theoretical calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	32
136	Magnetocaloric effect of gadolinium in high magnetic fields. <i>Physical Review B</i> , 2019 , 99,	3.3	31
135	Unusual magnetism of Er _{0.75} Dy _{0.25} Al ₂ . <i>Physical Review B</i> , 2007 , 76,	3.3	31
134	Controlling magnetism of a complex metallic system using atomic individualism. <i>Physical Review Letters</i> , 2010 , 105, 066401	7.4	30
133	Crystal structure, electrical transport properties and electronic structure of the VFe _{1-x} Cu _x Sb solid solution. <i>Journal of Alloys and Compounds</i> , 2005 , 402, 30-35	5.7	27
132	Anomalous Schottky specific heat and structural distortion in ferromagnetic PrAl ₂ . <i>Physical Review Letters</i> , 2013 , 110, 186405	7.4	26
131	Microstructure and magnetocaloric effect in cast LaFe _{1-1.5Si-1.5Bx} (x=0.5, 1.0). <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1710-1714	2.8	26
130	The role of demagnetization factor in determining the true value of the Curie temperature. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 2453-2457	2.8	24
129	Magnetic and structural transitions in Dy ₅ Si ₃ Ge. <i>Physical Review B</i> , 2007 , 76,	3.3	24
128	Cation-Poor Complex Metallic Alloys in Ba(Eu)-Au-Al(Ga) Systems: Identifying the Keys that Control Structural Arrangements and Atom Distributions at the Atomic Level. <i>Inorganic Chemistry</i> , 2015 , 54, 10296-308 ²³	5.1	23
127	The effect of cooling rate on magnetothermal properties of Fe ₄₉ Rh ₅₁ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166130	2.8	23
126	Electric transport in R ₂ MGe ₆ ternary compounds (R = La, Ce, Gd, Tb, Dy, Ho; M = Mn, Ni, Cu). <i>Journal of Alloys and Compounds</i> , 2008 , 459, 18-21	5.7	22
125	Magnetocaloric Behavior in Ternary Europium Indides Eu ₅ In: Probing the Design Capability of First-Principles-Based Methods on the Multifaceted Magnetic Materials. <i>Chemistry of Materials</i> , 2017 , 29, 2599-2614	9.6	20
124	Magnetostructural phase transitions and magnetocaloric effect in (Gd _{5-x} Sc _x)Si _{1.8} Ge _{2.2} . <i>Acta Materialia</i> , 2018 , 145, 369-376	8.4	20
123	Physical properties and superconductivity of skutterudite-related Yb ₃ Co _{4.3} Sn _{12.7} and Yb ₃ Co ₄ Ge ₁₃ . <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 7391-7402	1.8	20
122	Balancing structural distortions via competing 4f and itinerant interactions: a case of polymorphism in magnetocaloric HoCo ₂ . <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4521-4531	7.1	20
121	Magnetic and magnetothermal properties, and the magnetic phase diagram of single-crystal holmium along the easy magnetization direction. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 146002	1.8	19
120	Effect of hydrostatic pressure upon the magnetic transitions in the Gd ₅ (SixGe _{1-x}) ₄ giant magnetocaloric compounds: X-ray magnetic circular dichroism study. <i>Physical Review B</i> , 2007 , 76,	3.3	19

119	Manipulating the stability of crystallographic and magnetic sub-lattices: A first-order magnetoelastic transformation in transition metal based Laves phase. <i>Acta Materialia</i> , 2018 , 154, 365-374	8.4	19
118	Linear microstructural features in R ₅ (Si,Ge) ₄ -type alloys: Difficulties in identification. <i>Acta Materialia</i> , 2008 , 56, 527-536	8.4	18
117	Mechanochemical recovery of Co and Li from LCO cathode of lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2020 , 824, 153876	5.7	17
116	Identifying the critical point of the weakly first-order itinerant magnet DyCo ₂ with complementary magnetization and calorimetric measurements. <i>Physical Review B</i> , 2013 , 87,	3.3	17
115	Extraordinary Responsive Intermetallic Compounds: the R ₅ T ₄ Family (R = Rare Earth, T = Group 13-15 Element). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011 , 637, 1948-1956	1.3	17
114	Magnetostructural properties of Ho ₅ (Si _{0.8} Ge _{0.2}) ₄ . <i>Physical Review B</i> , 2010 , 81,	3.3	17
113	Temperature and magnetic field induced structural transformation in Si-doped : An in-field X-ray diffraction study. <i>Solid State Communications</i> , 2010 , 150, 879-883	1.6	17
112	Understanding the extraordinary magnetoelastic behavior in GdNi. <i>Physical Review B</i> , 2008 , 78,	3.3	17
111	Temperature and magnetic field-dependent x-ray powder diffraction study of dysprosium. <i>Physical Review B</i> , 2008 , 77,	3.3	17
110	Magnetostructural transition in Ho ₅ Ge ₄ . <i>Physical Review B</i> , 2009 , 79,	3.3	16
109	Magnetic spectroscopy at high pressures using X-ray magnetic circular dichroism. <i>High Pressure Research</i> , 2008 , 28, 185-192	1.6	16
108	Breaking the paradigm: record quindecim charged magnetic ionic liquids. <i>Materials Horizons</i> , 2017 , 4, 217-221	14.4	15
107	The nature of the first order isostructural transition in GdRhSn. <i>Journal of Alloys and Compounds</i> , 2014 , 613, 280-287	5.7	15
106	Complex Magnetism of Lanthanide Intermetallics and the Role of their Valence Electrons: Ab Initio Theory and Experiment. <i>Physical Review Letters</i> , 2015 , 115, 207201	7.4	15
105	Thermally mediated multiferroic composites for the magnetoelectric materials. <i>Applied Physics Letters</i> , 2010 , 96, 102902	3.4	15
104	Electrical resistivity and magnetism in some ternary intermetallics. <i>Journal of Alloys and Compounds</i> , 2001 , 317-318, 293-296	5.7	15
103	Structural disorder and magnetism in rare-earth (R) R ₁₇ Co _{54+x} Sn _{112-y} . <i>Journal of Alloys and Compounds</i> , 2013 , 557, 252-260	5.7	14
102	Open-Framework Manganese(II) and Cobalt(II) Borophosphates with Helical Chains: Structures, Magnetic, and Luminescent Properties. <i>Inorganic Chemistry</i> , 2017 , 56, 11104-11112	5.1	14

101	Magnetic and magnetothermal properties and the magnetic phase diagram of high purity single crystalline terbium along the easy magnetization direction. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 066001	1.8	14
100	Enhancement of the glass-forming ability by Zr microalloying and its influence on the magnetocaloric properties of bulk amorphous Gd _{1-x} Co _x Al. <i>Journal of Applied Physics</i> , 2010 , 108, 053916	2.5	14
99	Pressure tuning of the magnetic transition in Gd ₅ (Si _{0.375} Ge _{0.625}) ₄ giant magnetocaloric effect material. <i>Journal of Applied Physics</i> , 2008 , 103, 07B301	2.5	14
98	{Sm,Er}CuSn ternary systems. <i>Journal of Alloys and Compounds</i> , 2000 , 312, 124-129	5.7	14
97	First-order magnetic phase transition in Pr ₂ In with negligible thermomagnetic hysteresis. <i>Physical Review B</i> , 2020 , 101,	3.3	13
96	Phase relationships, and structural, magnetic, and magnetocaloric properties in the Ce ₅ Si ₄ Tb ₅ Ge ₄ system. <i>Journal of Applied Physics</i> , 2010 , 107, 013909	2.5	13
95	Experimental and theoretical study of the magnetic and structural properties of Er _{0.75} Tb _{0.25} Al ₂ . <i>Physical Review B</i> , 2010 , 82,	3.3	13
94	Electronic contribution to the enhancement of the ferromagnetic ordering temperature by Si substitution in Gd ₅ (SixGe _{1-x}) ₄ . <i>Physical Review B</i> , 2013 , 88,	3.3	12
93	Magnetic properties of Gd ₂ C: Experiment and first principles calculations. <i>Journal of Applied Physics</i> , 2011 , 109, 07A924	2.5	12
92	Structural and magnetic transitions in Gd ₅ SixGe _{4-x} (0 ≤ x ≤ 9) from neutron powder diffraction. <i>Physical Review B</i> , 2010 , 82,	3.3	12
91	Use of Stevens coefficients for the prediction of magnetic transitions in pseudobinary R _{1-x} R _x 'Al ₂ alloys: Application to Tm _{1-x} TbxAl ₂ . <i>Physical Review B</i> , 2011 , 83,	3.3	12
90	Oxidation resistance of B ₂ rare earth-magnesium intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2008 , 460, 363-367	5.7	12
89	Magnetic and electrical transport properties of RE ₉ Ni ₂₄ Sn ₄₉ compounds (RE=Y, Ce, Pr, Sm and Tb). <i>Intermetallics</i> , 2005 , 13, 484-489	3.5	12
88	Structural and magnetothermal properties of the Gd ₅ SbxGe _{4-x} system. <i>Journal of Applied Physics</i> , 2006 , 99, 08Q102	2.5	12
87	X-ray investigation of the REeSn ternary systems (R=, Gd). <i>Journal of Alloys and Compounds</i> , 2004 , 383, 162-165	5.7	12
86	Enhancing Magnetic Functionality with Scandium: Breaking Stereotypes in the Design of Rare Earth Materials. <i>Chemistry of Materials</i> , 2017 , 29, 3962-3970	9.6	11
85	Antiferromagnetic cluster spin-glass behavior in Pr ₁₁₇ Co _{54.5} Sn _{115.2} A compound with a giant unit cell. <i>Journal of Alloys and Compounds</i> , 2014 , 600, 101-106	5.7	11
84	Magnetostructural transition in Gd ₅ Sb _{0.5} Ge _{3.5} . <i>Physical Review B</i> , 2009 , 80,	3.3	11

83	Crystal structure of Tb ₅ Ni ₂ In ₄ and Y ₅ Ni ₂ In ₄ , and magnetic properties of Dy ₅ Ni ₂ In ₄ . <i>Journal of Applied Physics</i> , 2012 , 111, 07E122	2.5	11
82	Low-temperature crystal structure and magnetic properties of Gd ₅ Ge ₃ . <i>Physical Review B</i> , 2012 , 85,	3.3	11
81	The effect of boron doping on crystal structure, magnetic properties and magnetocaloric effect of DyCo ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 405, 122-128	2.8	10
80	Structure evolution and dielectric behavior of polystyrene-capped barium titanate nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 ,		10
79	Competing crystal and magnetic structures in Gd ₅ Ge ₄ . <i>Physical Review B</i> , 2010 , 82,	3.3	10
78	Electrical resistivity and magnetoresistance of single-crystal Tb ₅ Si _{2.2} Ge _{1.8} . <i>Physical Review B</i> , 2009 , 80,	3.3	10
77	Electronic structure, magnetic properties, and magnetostructural transition in Tb ₅ Si _{2.2} Ge _{1.8} from first principles. <i>Physical Review B</i> , 2011 , 84,	3.3	10
76	Pressure-induced removal of magnetostructural inhomogeneity in Ge-rich Gd ₅ (SixGe _{1-x}) ₄ giant magnetocaloric alloys. <i>Physical Review B</i> , 2008 , 78,	3.3	10
75	The nano-microfibrous R ₁₁ Ni ₄ In ₉ intermetallics: New compounds and extraordinary anisotropy in Tb ₁₁ Ni ₄ In ₉ and Dy ₁₁ Ni ₄ In ₉ . <i>Acta Materialia</i> , 2015 , 91, 128-140	8.4	9
74	Growth and characterization of Pt-protected Gd ₅ Si ₄ thin films. <i>Journal of Applied Physics</i> , 2014 , 115, 17C113	2.5	9
73	The ternary Er _{1-x} Co _x B ₂ system. <i>Journal of Alloys and Compounds</i> , 2000 , 296, 290-292	5.7	9
72	EuNi ₅ InH _{1.5x} (x = 0-1.5): hydrogen induced structural and magnetic transitions. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2994-3006	7.1	8
71	Influence of the starting temperature of calorimetric measurements on the accuracy of determined magnetocaloric effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 457, 64-69	2.8	8
70	Self-assembled nano- to micron-size fibers from molten R ₁₁ Ni ₄ In ₉ intermetallics. <i>Acta Materialia</i> , 2014 , 73, 27-36	8.4	8
69	Crystal, magnetic, calorimetric and electronic structure investigation of GdScGe Sb compounds. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 485802	1.8	8
68	Unusual magnetic frustration in Lu-doped Gd ₅ Ge ₄ . <i>Journal of Applied Physics</i> , 2013 , 113, 17E104	2.5	8
67	Magnetic and structural properties of single-crystalline Er ₅ Si ₄ . <i>Physical Review B</i> , 2012 , 85,	3.3	8
66	Specific heat of single-crystal HfV ₂ : Strong-coupling conventional superconductivity and the effect of the martensitic transition. <i>Physical Review B</i> , 2005 , 72,	3.3	8

65	Managing hysteresis of Gd ₅ Si ₂ Ge ₂ by magnetic field cycling. <i>Journal of Applied Physics</i> , 2019 , 126, 243902-5	2.5	8
64	Investigating the effect of ligand and cation on the properties of metal fluorinated acetylacetonate based magnetic ionic liquids. <i>New Journal of Chemistry</i> , 2019 , 43, 11334-11341	3.6	7
63	Short-range magnetic correlations and paramagnetism in RCo ₂ . <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	7
62	Unusual magnetic and structural transformations of DyFe ₄ Ge ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	7
61	Role of 4f electrons in crystallographic and magnetic complexity. <i>Physical Review B</i> , 2017 , 96,	3.3	7
60	Low temperature properties of some RIn ₃ compounds. <i>Journal of Alloys and Compounds</i> , 2009 , 472, 24-29	2.7	7
59	New RNiSn ₄ compounds (R=rare earth): crystal structure of new LuNiSn ₄ type, magnetic and transport properties. <i>Journal of Alloys and Compounds</i> , 2000 , 296, 303-311	5.7	7
58	Magnetic and transport properties of Er ₆ Ni ₂ Sn. <i>Journal of Alloys and Compounds</i> , 2001 , 319, 14-18	5.7	7
57	Controlling magnetostructural transition and magnetocaloric effect in multi-component transition-metal-based materials. <i>Journal of Applied Physics</i> , 2021 , 129, 193901	2.5	7
56	Anisotropy induced anomalies in Dy _{1-x} TbxAl ₂ . <i>Journal of Materials Chemistry C</i> , 2017 , 5, 896-901	7.1	6
55	Influence of Y substitutions on the magnetism of Gd ₅ Ge ₄ . <i>Journal of Applied Physics</i> , 2010 , 107, 09A908	2.5	6
54	Magnetism of Ho _{1-x} TbxAl ₂ alloys: Critical dependence of a first-order transition on Tb concentration. <i>Physical Review B</i> , 2011 , 84,	3.3	6
53	Effect of Si doping and applied pressure upon magnetostructural properties of Tb ₅ (SixGe _{1-x}) ₄ magnetocaloric compounds. <i>Physical Review B</i> , 2011 , 83,	3.3	6
52	Crystal structure and magnetic properties of Tb ₆ Co _{2.35} Sn _{0.65} . <i>Journal of Alloys and Compounds</i> , 2002 , 333, 34-40	5.7	6
51	Magnetic properties of the RCo ₃ Sn (R=Gd to Tm) compounds. <i>Journal of Alloys and Compounds</i> , 2000 , 312, 9-11	5.7	6
50	Magnetic and magnetocaloric properties of DyCo ₂ Cx alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 152-156	5.7	6
49	Unprecedented generation of 3D heterostructures by mechanochemical disassembly and re-ordering of incommensurate metal chalcogenides. <i>Nature Communications</i> , 2020 , 11, 3005	17.4	5
48	R ₅ T ₄ Compounds. <i>Fundamental Theories of Physics</i> , 2014 , 44, 283-449	0.8	5

47	Crystal structure and magnetic properties of RCu_5Sn compounds ($\text{R}=\text{Y}, \text{Gd}, \text{Yb}$). <i>Solid State Communications</i> , 2001 , 119, 423-427	1.6	5
46	Magnetostructural phase transformations in Tb_1Mn_2 . <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2422-2430		4
45	Free-energy analysis of the nonhysteretic first-order phase transition of Eu_2In . <i>Physical Review B</i> , 2020 , 102,	3.3	4
44	Ferromagnetic ordering and Griffiths-like phase behavior in $\text{Gd}_5\text{Ge}_3.9\text{Al}_0.1$. <i>Journal of Applied Physics</i> , 2013 , 114, 063904	2.5	4
43	Correlations between magnetism, microstructure, crystallography, and phase stability in GdNi_1Co alloys. <i>Acta Materialia</i> , 2015 , 92, 18-24	8.4	4
42	The crystal structures of some RM and RM_2 compounds (where $\text{R}=\text{rare earth metal}$ and $\text{M}=\text{non-rare earth metal}$). <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2009 , 33, 8-10	1.9	4
41	Phase relationships and crystallography of annealed alloys in the $\text{Ce}_5\text{Si}_4\text{Te}_5\text{Ge}_4$ pseudobinary system. <i>Journal of Alloys and Compounds</i> , 2009 , 487, 98-102	5.7	4
40	Thermal expansion and magnetostriction in $\text{Pr}_{(n+2)}\text{Ni}_{(n+1)}\text{Ni}_{(n-1)}+2\text{Si}_{(n+1)}$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 299, 288-299	2.8	4
39	Magnetic and electrical properties of the stannides $\text{RE}_3\text{Co}_6\text{Sn}_5$ ($\text{RE} = \text{Sm, Gd, Tb and Dy}$). <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 2515-2522	1.8	4
38	Synthesis-enabled exploration of chiral and polar multivalent quaternary sulfides. <i>Chemical Science</i> , 2021 , 12, 14718-14730	9.4	4
37	Tunable magnetism and structural transformations in mixed light- and heavy-lanthanide dialuminides. <i>Physical Review B</i> , 2016 , 94,	3.3	4
36	Magnetic and magnetocaloric properties of spin-glass material $\text{DyNi}_{0.67}\text{Si}_{1.34}$. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 436, 91-96	2.8	3
35	Magnetic structure of selected Gd intermetallic alloys from first principles. <i>Physical Review B</i> , 2020 , 101,	3.3	3
34	Magnetic properties of Gd intermetallics. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 448, 9-12	2.8	3
33	Unexpected crystal and magnetic structures in MnCu_4In and MnCu_4Sn . <i>Acta Materialia</i> , 2013 , 61, 2236-2243		3
32	On the magnetic order of Gd_5Ge_3 . <i>Journal of Applied Physics</i> , 2014 , 115, 17A901	2.5	3
31	Crystal structure, magnetic properties, and the magnetocaloric effect of Gd_5Rh_4 and GdRh . <i>Journal of Applied Physics</i> , 2013 , 113, 17A904	2.5	3
30	Magnetic, thermal, and transport properties of the mixed-valent vanadium oxides LuV_4O_8 and YV_4O_8 . <i>Physical Review B</i> , 2010 , 81,	3.3	3

29	Magnetostructural transition in Ce(Fe _{0.975} Ga _{0.025}) ₂ compound. <i>Journal of Applied Physics</i> , 2010 , 107, 09E133	2.5	3
28	Metamagnetic transition, magnetocaloric effect and electronic structure of the rare-earth anti-perovskite SnOEu ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 501, 166405	2.8	3
27	Anomalous specific heat and magnetic properties of Tm _x Dy _{1-x} Al ₂ (0 ≤ x ≤ 1). <i>Journal of Alloys and Compounds</i> , 2019 , 774, 321-330	5.7	3
26	Magnetostructural behavior in the non-centrosymmetric compound NdPd. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 265801	1.8	2
25	From a conventional ferromagnetism to a frustrated magnetism: An unexpected role of Fe in Nd(Al _{1-x} Fe _x) ₂ (x ≤ 0.2). <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154613	5.7	2
24	Effects of mechanical grinding and low temperature annealing on crystal structure of Er ₅ Si ₄ . <i>Journal of Alloys and Compounds</i> , 2013 , 556, 127-134	5.7	2
23	Magneto-thermal properties of Ho _{1-x} Dy _x Al ₂ (x = 0, 0.05, 0.10, 0.15, 0.25 and 0.50) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 544, 168705	2.8	2
22	The first-order magnetoelastic transition in Eu ₂ In: A ¹⁵¹ Eu Mössbauer study. <i>AIP Advances</i> , 2019 , 9, 125137	5.7	2
21	Magneto-thermal properties of Tm _x Dy _{1-x} Al ₂ (x = 0.25, 0.50 and 0.75). <i>Journal of Alloys and Compounds</i> , 2021 , 858, 157682	5.7	2
20	Extraordinarily strong magneto-responsiveness in phase-separated LaFe ₂ Si. <i>Acta Materialia</i> , 2021 , 215, 117083	8.4	2
19	Borderline first-order magnetic phase transition in AlFe ₂ B ₂ . <i>Journal of Alloys and Compounds</i> , 2021 , 886, 161150	5.7	2
18	Crystallographic and compositional contributions to the breakdown of the GdNi _{1-x} Co solid solution. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 382-390	5.7	1
17	Magnetic and transport behaviors of non-centrosymmetric Nd ₇ Ni ₂ Pd. <i>AIP Advances</i> , 2020 , 10, 015103	1.5	1
16	On the edge of periodicity: Unconventional magnetism of Gd ₁₁₇ Co _{56.4} Sn _{114.3} . <i>Journal of Alloys and Compounds</i> , 2017 , 726, 758-764	5.7	1
15	In situ X-ray powder diffraction study of Ho ₅ Ge ₄ . <i>Journal of Applied Physics</i> , 2014 , 115, 17E105	2.5	1
14	Crystal structure and magnetic properties of NdCo _{9-x} Fe _x Si ₄ solid solution. <i>Journal of Alloys and Compounds</i> , 2005 , 392, 81-83	5.7	1
13	Magnetocaloric effect in Er ₆ Ni ₂ Sn. <i>European Physical Journal D</i> , 2002 , 52, A205-A208		1
12	Hidden first-order phase transitions and large magnetocaloric effects in GdNi _{1-x} Cox. <i>Journal of Alloys and Compounds</i> , 2022 , 897, 163186	5.7	1

11	Anomalous effects of Sc substitution and processing on magnetism and structure of (Gd _{1-x} Sc _x) ₅ Ge ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 474, 482-492	2.8	1
10	Distinctive exchange bias and unusual memory effects in magnetically compensated Pr _{0.75} Gd _{0.25} ScGe. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 181-188	7.1	1
9	Controlling magnetism via transition metal exchange in the series of intermetallics Eu(T ₁ ,T ₂) ₅ In (T = Cu, Ag, Au). <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1353-1362	7.1	1
8	Correlating Crystallography, Magnetism, and Electronic Structure Across An hysteretic First-Order Phase Transition in Pr ₂ In. <i>ECS Journal of Solid State Science and Technology</i> ,	2	1
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