

Vitalij K Pecharsky

List of Publications by Year in descending order

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all docs

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times ranked

6926
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#	ARTICLE	IF	CITATIONS
1	Giant Magnetocaloric Effect in Gd ₅ (Si ₂ Ge ₂). <i>Physical Review Letters</i> , 1997, 78, 4494-4497.	7.8	3,773
2	Recent developments in magnetocaloric materials. <i>Reports on Progress in Physics</i> , 2005, 68, 1479-1539.	20.1	3,053
3	Magnetocaloric effect and magnetic refrigeration. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 200, 44-56.	2.3	1,362
4	Magnetocaloric Materials. <i>Annual Review of Materials Research</i> , 2000, 30, 387-429.	5.5	1,161
5	Magnetic phase transitions and the magnetothermal properties of gadolinium. <i>Physical Review B</i> , 1998, 57, 3478-3490.	3.2	845
6	Magnetocaloric effect from indirect measurements: Magnetization and heat capacity. <i>Journal of Applied Physics</i> , 1999, 86, 565-575.	2.5	754
7	Tunable magnetic regenerator alloys with a giant magnetocaloric effect for magnetic refrigeration from $\text{~}^{\circ}\text{C}$ 420 to $\text{~}^{\circ}\text{C}$ 4290. <i>Applied Physics Letters</i> , 1997, 70, 3299-3301.	3.3	691
8	Thirty years of near room temperature magnetic cooling: Where we are today and future prospects. <i>International Journal of Refrigeration</i> , 2008, 31, 945-961.	3.4	594
9	Making and Breaking Covalent Bonds across the Magnetic Transition in the Giant Magnetocaloric Material Gd ₅ (Si ₂ Ge ₂). <i>Physical Review Letters</i> , 2000, 84, 4617-4620.	7.8	364
10	Thermodynamics of the magnetocaloric effect. <i>Physical Review B</i> , 2001, 64, .	3.2	346
11	Effect of alloying on the giant magnetocaloric effect of Gd ₅ (Si ₂ Ge ₂). <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 167, L179-L184.	2.3	319
12	Phase relationships and crystallography in the pseudobinary system Gd ₅ Si ₄ —Gd ₅ Ge ₄ . <i>Journal of Alloys and Compounds</i> , 1997, 260, 98-106.	5.5	282
13	The giant magnetocaloric effect of optimally prepared Gd ₅ Si ₂ Ge ₂ . <i>Journal of Applied Physics</i> , 2003, 93, 4722-4728.	2.5	275
14	Massive Magnetic-Field-Induced Structural Transformation in Gd ₅ Ge ₄ and the Nature of the Giant Magnetocaloric Effect. <i>Physical Review Letters</i> , 2003, 91, 197204.	7.8	255
15	Gd ₅ (SixGe _{1-x}) ₄ : An Extremum Material. <i>Advanced Materials</i> , 2001, 13, 683-686.	21.0	247
16	Material-based figure of merit for caloric materials. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	244
17	Some common misconceptions concerning magnetic refrigerant materials. <i>Journal of Applied Physics</i> , 2001, 90, 4614-4622.	2.5	243
18	Advanced magnetocaloric materials: What does the future hold?. <i>International Journal of Refrigeration</i> , 2006, 29, 1239-1249.	3.4	227

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19	Mechanically Induced Solid-State Generation of Phosphorus Ylides and the Solvent-Free Wittig Reaction. <i>Journal of the American Chemical Society</i> , 2002, 124, 6244-6245.	13.7	207
20	Titanium catalyzed solid-state transformations in LiAlH ₄ during high-energy ball-milling. <i>Journal of Alloys and Compounds</i> , 2001, 329, 108-114.	5.5	205
21	Magnetic refrigeration materials (invited). <i>Journal of Applied Physics</i> , 1999, 85, 5365-5368.	2.5	192
22	On the nature of the magnetocaloric effect of the first-order magnetostructural transition. <i>Scripta Materialia</i> , 2012, 67, 572-577.	5.2	167
23	Solid state phase transformations in LiAlH ₄ during high-energy ball-milling. <i>Journal of Alloys and Compounds</i> , 2000, 313, 69-74.	5.5	161
24	Influence of the crystalline electrical field on the magnetocaloric effect of DyAl ₂ , ErAl ₂ , and DyNi ₂ . <i>Physical Review B</i> , 1998, 58, 12110-12116.	3.2	159
25	The room temperature metastable/stable phase relationships in the pseudo-binary Gd ₅ Si ₄ -Gd ₅ Ge ₄ system. <i>Journal of Alloys and Compounds</i> , 2002, 338, 126-135.	5.5	158
26	Magnetic-field and temperature dependencies of the electrical resistance near the magnetic and crystallographic first-order phase transition of Gd ₅ (Si ₂ Ge ₂). <i>Physical Review B</i> , 1999, 60, 7993-7997.	3.2	139
27	Barocaloric effect in the magnetocaloric prototype Gd ₅ Si ₂ Ge ₂ . <i>Applied Physics Letters</i> , 2012, 101, 071906.	3.3	127
28	Magnetic correlations induced by magnetic field and temperature in Gd ₅ Ge ₄ . <i>Physical Review B</i> , 2002, 65, .	3.2	125
29	A 3-350 K fast automatic small sample calorimeter. <i>Review of Scientific Instruments</i> , 1997, 68, 4196-4207.	1.3	122
30	The correlation of the magnetic properties and the magnetocaloric effect in (Gd _{1-x} Er _x)NiAl alloys. <i>Journal of Applied Physics</i> , 1998, 84, 5677-5685.	2.5	115
31	Comment on "Direct Measurement of the 'Giant' Adiabatic Temperature Change in Gd ₅ Si ₂ Ge ₂ ". <i>Physical Review Letters</i> , 2000, 85, 4190-4190.	7.8	112
32	Evidence of a magnetic glass state in the magnetocaloric material Gd ₅ Ge ₄ . <i>Physical Review B</i> , 2006, 74, .	3.2	112
33	The nonpareil R ₅ (Si _x Ge _{1-x}) ₄ phases. <i>Journal of Alloys and Compounds</i> , 2000, 303-304, 214-222.	5.5	103
34	Non-hysteretic first-order phase transition with large latent heat and giant low-field magnetocaloric effect. <i>Nature Communications</i> , 2018, 9, 2925.	12.8	102
35	Rapid solid-state transformation of tetrahedral [AlH ₄] ⁻ into octahedral [AlH ₆] ³⁻ in lithium aluminohydride. <i>Chemical Communications</i> , 2000, , 1665-1666.	4.1	101
36	Electrical resistivity, electronic heat capacity, and electronic structure of Gd ₅ Ge ₄ . <i>Physical Review B</i> , 2001, 64, .	3.2	101

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37	New type of magnetocaloric effect: Implications on low-temperature magnetic refrigeration using an Ericsson cycle. <i>Applied Physics Letters</i> , 1994, 64, 2739-2741.	3.3	91
38	Short-range anisotropic ferromagnetic correlations in the paramagnetic and antiferromagnetic phases of Gd ₅ Ge ₄ . <i>Physical Review B</i> , 2006, 74, .	3.2	89
39	The effect of varying the crystal structure on the magnetism, electronic structure and thermodynamics in the Gd ₅ (Si _x Ge _{1-x}) ₄ system near x = 0.5. <i>Journal of Solid State Chemistry</i> , 2003, 171, 57-68.	2.9	87
40	Unusual magnetic behavior in Gd ₅ (Si _{1.5} Ge _{2.5}) and Gd ₅ (Si ₂ Ge ₂). <i>Physical Review B</i> , 2000, 62, R14625-R14628.	3.2	86
41	Interplay between reversible and irreversible magnetic phase transitions in polycrystalline Gd ₅ Ge ₄ . <i>Physical Review B</i> , 2004, 69, .	3.2	85
42	Making the most of the magnetic and lattice entropy changes. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3541-3547.	2.3	84
43	(Dy _{0.5} Er _{0.5})Al ₂ : A large magnetocaloric effect material for low-temperature magnetic refrigeration. <i>Applied Physics Letters</i> , 1994, 64, 253-255.	3.3	81
44	X-ray powder diffractometer for in situ structural studies in magnetic fields from 0 to 35 kOe between 2.2 and 315 K. <i>Review of Scientific Instruments</i> , 2004, 75, 1081-1088.	1.3	77
45	Giant enhancement of the magnetocaloric response in Ni-Co-Mn-Ti by rapid solidification. <i>Acta Materialia</i> , 2019, 173, 225-230.	7.9	76
46	Overview No. 145 Metamagnetic transitions, phase coexistence and metastability in functional magnetic materials. <i>Acta Materialia</i> , 2008, 56, 5895-5906.	7.9	74
47	Rare Earths and Magnetic Refrigeration. <i>Journal of Rare Earths</i> , 2006, 24, 641-647.	4.8	73
48	Designed materials with the giant magnetocaloric effect near room temperature. <i>Acta Materialia</i> , 2019, 180, 341-348.	7.9	73
49	Preparation, crystal structure, heat capacity, magnetism, and the magnetocaloric effect of Pr ₅ Ni _{1.9} Si ₃ and PrNi. <i>Physical Review B</i> , 2003, 68, .	3.2	72
50	Experimental device for studying the magnetocaloric effect in pulse magnetic fields. <i>Review of Scientific Instruments</i> , 1997, 68, 2432-2437.	1.3	70
51	Magnetic and magnetocaloric properties and the magnetic phase diagram of single-crystal dysprosium. <i>Physical Review B</i> , 2005, 71, .	3.2	67
52	Preparation, crystal structure, magnetic and magnetothermal properties of (Gd _{[sub x}]R _[sub] T _j ETQq0 0 0 rgBT /Overlock 10 _{2.5} Tf 50 142 166		
53	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, .	3.2	66
54	Role of Ge in Bridging Ferromagnetism in the Giant Magnetocaloric Gd ₅ (Ge _{1-x} Six) ₄ Alloys. <i>Physical Review Letters</i> , 2007, 98, 247205.	7.8	66

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55	The Giant Magnetocaloric Effect in Gd ₅ (SixGe _{1-x}) ₄ Materials for Magnetic Refrigeration. , 1998, , 1729-1736.	65	
56	Metastable magnetic response across the antiferromagnetic to ferromagnetic transition inGd ₅ Ge ₄ . Physical Review B, 2004, 70, .	3.2	65
57	Real and imaginary components of the alternating current magnetic susceptibility of RAi ₂ (R=Gd, Dy,) Tj ETQq1 1 0 _{2.5} 84314 rgBT /Overl...	2.5	64
58	Transformations in theGd ₅ (Si1.95Ge2.05)alloy induced by the temperature and magnetic-field cycling through the first-order magnetic-martensitic phase transition. Physical Review B, 2001, 63, .	3.2	64
59	On the High-Temperature Phase Transition of Gd ₅ Si ₂ Ge ₂ . Journal of the American Chemical Society, 2005, 127, 317-324.	13.7	64
60	Uncovering the structureâ€“property relationships in R ₅ (SixGe _{4-x}) intermetallic phases. Journal of Alloys and Compounds, 2002, 344, 362-368.	5.5	63
61	Solid-state ²⁷ Al NMR investigation of thermal decomposition of LiAlH ₄ . Journal of Solid State Chemistry, 2004, 177, 648-653.	2.9	63
62	Hydrostatic pressure control of the magnetostructural phase transition inGd ₅ Si ₂ Ge ₂ single crystals. Physical Review B, 2005, 72, .	3.2	63
63	Structure, magnetism, and thermodynamics of the novel rare earth-based R ₅ T ₄ intermetallics. Pure and Applied Chemistry, 2007, 79, 1383-1402.	1.9	63
64	Metamagnetism Seeded by Nanostructural Features of Singleâ€“Crystalline Gd ₅ Si ₂ Ge ₂ . Advanced Materials, 2009, 21, 3780-3783.	21.0	61
65	Mechanically induced reactions in organic solids: liquid eutectics or solid-state processes?. New Journal of Chemistry, 2010, 34, 25-28.	2.8	60
66	Magnetic structure ofGd ₅ Ge ₄ . Physical Review B, 2005, 71, .	3.2	59
67	Caloric effects in ferroic materials. MRS Bulletin, 2018, 43, 264-268.	3.5	57
68	The giant magnetocaloric effect between 190 and 300K in the Gd ₅ SixGe _{4-x} alloys for 1.4â€© ^{1/2} xâ€© ^{1/2} 2.2. Journal of Magnetism and Magnetic Materials, 2003, 267, 60-68.	2.3	56
69	Reducing the operational magnetic field in the prototype magnetocaloric system Gd ₅ Ge ₄ by approaching the single cluster size limit. Applied Physics Letters, 2006, 88, 072501.	3.3	56
70	Electron correlation effects on the magnetostructural transition and magnetocaloric effect inGd ₅ Si ₂ Ge ₂ . Physical Review B, 2006, 73, .	3.2	56
71	Magnetic field and temperature-induced first-order transition in Gd ₅ (Si1.5Ge2.5): a study of the electrical resistance behavior. Journal of Magnetism and Magnetic Materials, 2000, 210, 181-188.	2.3	54
72	Spontaneous generation of voltage inGd ₅ (SixGe _{4-x})during a first-order phase transition induced by temperature or magnetic field. Physical Review B, 2001, 63, .	3.2	54

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73	Best practices in evaluation of the magnetocaloric effect from bulk magnetization measurements. Journal of Magnetism and Magnetic Materials, 2018, 458, 301-309.		2.3	54
74	Heat capacity near first order phase transitions and the magnetocaloric effect: An analysis of the errors, and a case study of Gd ₅ (Si ₂ Ge ₂) and Dy. Journal of Applied Physics, 1999, 86, 6315-6321.		2.5	53
75	Novel Thermal Effects at the First Order Magnetic Phase Transition in Erbium, and a Comparison with Dysprosium. Physical Review Letters, 1997, 78, 4281-4284.		7.8	48
76	Disappearance and reappearance of magnetic ordering upon lanthanide substitution in (Er _{1-x} Dyx)Al ₂ . Physical Review B, 2003, 68, .		3.2	48
77	Phase relationships and structural, magnetic, and thermodynamic properties of alloys in the pseudobinary Er ₅ Si ₄ -Er ₅ Ge ₄ system. Physical Review B, 2004, 70, .		3.2	48
78	Reversible spin-flop and irreversible metamagneticlike transitions induced by a magnetic field in the layered Gd ₅ Ge ₄ antiferromagnet. Physical Review B, 2004, 69, .		3.2	47
79	Devitrification of the low temperature magnetic-glass state in Gd ₅ Ge ₄ . Physical Review B, 2007, 75, .		3.2	47
80	Correlating the local magnetic properties of the magnetic phase transition in Gd ₅ Ge ₄ using scanning Hall probe imaging. Physical Review B, 2006, 73, .		3.2	46
81	High-throughput search for caloric materials: the CaloriCool approach. Journal Physics D: Applied Physics, 2018, 51, 024002.		2.8	46
82	Magnetic properties of single-crystal DyAl ₂ . Physical Review B, 2005, 72, .		3.2	43
83	Enhancement of ?-phase in PVDF films embedded with ferromagnetic Gd ₅ Si ₄ nanoparticles for piezoelectric energy harvesting. AIP Advances, 2017, 7, .		1.3	42
84	Crystallography, anisotropic metamagnetism, and magnetocaloric effect in Tb ₅ Si _{2.2} Ge _{1.8} . Physical Review B, 2007, 75, .		3.2	41
85	Crystallography, magnetic properties and magnetocaloric effect in Gd ₄ (BixSb _{1-x}) ₃ alloys. Journal of Magnetism and Magnetic Materials, 2001, 234, 193-206.		2.3	40
86	Decoupling of the Magnetic and Structural Transformations in Er ₅ Si ₄ . Physical Review Letters, 2003, 91, 207205.		7.8	39
87	Magnetism of Gd ₅ Ge ₄ from first principles. Physical Review B, 2007, 75, .		3.2	39
88	Mechanochemical transformations in Li(Na)AlH ₄ -Li(Na)NH ₂ systems. Acta Materialia, 2007, 55, 3121-3130.		7.9	39
89	Solvent-free mechanochemical synthesis and magnetic properties of rare-earth based metal-organic frameworks. Journal of Alloys and Compounds, 2017, 696, 118-122.		5.5	39
90	Permanent magnet array for the magnetic refrigerator. Journal of Applied Physics, 2002, 91, 8894.		2.5	38

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91	Anomalous Schottky Specific Heat and Structural Distortion in Ferromagnetic Anomalous Schottky Specific Heat and Structural Distortion in Ferromagnetic PrAl_2 Physical Review Letters, 2013, 110, 186405.	mml:math mml:msub mml:mi mml:mn mml:msub mml:math	7.8	38
92	Polymorphism of $\text{Gd}_5\text{Si}_2\text{Ge}_2$: The equivalence of temperature, magnetic field, and chemical and hydrostatic pressures. Physical Review B, 2005, 71, .		3.2	37
93	(Magneto)caloric refrigeration: is there light at the end of the tunnel?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150305.		3.4	37
94	Magnetostructural transition in $\text{Gd}_5\text{Si}_0.5\text{Ge}_{3.5}$: Magnetic and x-ray powder diffraction measurements, and theoretical calculations. Physical Review B, 2008, 77, .		3.2	36
95	Anisotropy of the Magnetoresistance in $\text{Gd}_5\text{Si}_2\text{Ge}_2$. Physical Review Letters, 2004, 93, 237203.		7.8	35
96	Superheating and other unusual observations regarding the first order phase transition in Dy. Scripta Materialia, 1996, 35, 843-848.		5.2	34
97	Magnetostructural phase transitions and magnetocaloric effect in $(\text{Gd}_{5-x}\text{Sc}_x)\text{Si}_{1.8}\text{Ge}_{2.2}$. Acta Materialia, 2018, 145, 369-376.		7.9	34
98	Phase relationships and structural, magnetic, and thermodynamic properties of the $\text{Yb}_5\text{Si}_4\text{-Yb}_5\text{Ge}_4$ pseudobinary system. Physical Review B, 2005, 72, .		3.2	33
99	Magnetic anisotropy and magnetic phase diagram of Gd_5Ge_4 . Physical Review B, 2006, 74, .		3.2	33
100	Magnetic field induced phase transitions in $\text{Gd}_5(\text{Si}_{1.95}\text{Ge}_{2.05})$ single crystal and the anisotropic magnetocaloric effect. Journal of Applied Physics, 2003, 93, 8298-8300.		2.5	32
101	Tracking and understanding the first-order structural transition in Er_5Si_4 . Physical Review B, 2004, 69, .		3.2	32
102	The effect of cooling rate on magnetothermal properties of $\text{Fe}_{49}\text{Rh}_{51}$. Journal of Magnetism and Magnetic Materials, 2020, 498, 166130.		2.3	32
103	Unusual magnetism of $\text{Er}_{0.75}\text{Dy}_{0.25}\text{Al}_2$. Physical Review B, 2007, 76, .	mml:math mml:mrow mml:msub mml:mi mml:mn mml:mo	3.2	31
104	Origins of ferromagnetism and antiferromagnetism in Gd_5Ge_4 . Journal of Physics Condensed Matter, 2008, 20, 235235.	mml:math mml:mrow mml:msub mml:mo	1.8	30
105	Unusual magnetic properties of Gd_5Ge_4 . Physical Review B, 2008, 77, .	mml:math mml:mrow mml:msub mml:mo mml:mi	3.2	30
106	Microstructure and magnetocaloric effect in cast $\text{LaFe}_{11.5}\text{Si}_{1.5}\text{B}_x$ ($x=0.5, 1.0$). Journal of Magnetism and Magnetic Materials, 2010, 322, 1710-1714.		2.3	30
107	Controlling Magnetism of a Complex Metallic System Using Atomic Individualism. Physical Review Letters, 2010, 105, 066401.		7.8	30
108	Cation-Poor Complex Metallic Alloys in $\text{Ba}(\text{Eu})\text{-Au}\text{-Al}(\text{Ga})$ Systems: Identifying the Keys that Control Structural Arrangements and Atom Distributions at the Atomic Level. Inorganic Chemistry, 2015, 54, 10296-10308.		4.0	30

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109	Phase relationships and low temperature heat capacities of alloys in the Y ₅ Si ₄ -Y ₅ Ge ₄ pseudo binary system. <i>Journal of Alloys and Compounds</i> , 2004, 379, 127-134.	5.5	29
110	Thermochemical transformations in 2MNH ₂ -3MgH ₂ systems (M=Li or Na). <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4562-4568.	7.1	29
111	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.	5.5	29
112	Magnetocaloric Behavior in Ternary Europium Indides EuT 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.	6.7	29
113	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.	7.9	29
114	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.	2.3	28
115	First-order magnetic phase transition in $P_{\text{mml:mi}} \times \text{mml:msub} \times \text{mml:mi}$ with negligible thermomagnetic hysteresis. <i>Physical Review B</i> , 2020, 101, .	3.2	28
116	Solvent-free mechanochemical synthesis of alane, AlH ₃ : effect of pressure on the reaction pathway. <i>Green Chemistry</i> , 2014, 16, 4378-4388.	9.0	27
117	Investigation of Room Temperature Ferromagnetic Nanoparticles of Gd ₅ Si ₄ . <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	26
118	Thermodynamic features of magnetization and magnetocaloric effect near the magnetic ordering temperature of Gd. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e555-e557.	2.3	25
119	Understanding the extraordinary magnetoelastic behavior in GdNi. <i>Physical Review B</i> , 2008, 78, .	3.2	25
120	Compact and efficient elastocaloric heat pumpsâ€”Is there a path forward?. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	25
121	Magnetic and crystal structures of Er ₅ (SixGe _{1-x}) ₄ . <i>Journal of Physics Condensed Matter</i> , 2006, 18, 3937-3950.	1.8	24
122	Magnetic and structural transitions in Dy ₅ Si ₃ Ge. <i>Physical Review B</i> , 2007, 76, .	3.2	24
123	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.	7.8	24
124	Unexpected magnetism, Griffiths phase, and exchange bias in the mixed lanthanide $\text{Pr}_{\text{mml:math}} \times \text{mml:math}$ $\text{Er}_{\text{mml:math}} \times \text{mml:math}$ $\text{Al}_{\text{mml:math}}$ $\text{Al}_{\text{mml:math}}$ Temperature and magnetic field-dependent x-ray powder diffraction study of dysprosium. <i>Physical Review B</i> , 2008, 77, .	3.2	22
125	Magnetocaloric effects in Er _{1-x} TbxAl ₂ alloys. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	22

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127	Gd ₃ Ni ₂ and Gd ₃ Co _x Ni _{2-x} : magnetism and unexpected Co/Ni crystallographic ordering. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6078-6089.	5.5	22
128	The crystal structure of the oxygen-stabilized $\hat{\gamma}$ -phase Zr ₃ V ₃ O ₉ D _{9.6} . <i>Journal of Alloys and Compounds</i> , 2000, 309, 75-82.	5.5	21
129	Neutron diffraction studies of the magnetoelastic compounds Tb ₅ SixGe _{4-x} (x=2.2 and 2.5). <i>Physical Review B</i> , 2005, 72, . Field step size and temperature effects on the character of the magnetostructural transformation in a $\text{Gd}_{5-\text{x}}\text{Ge}_x$ system.	3.2	21
130	Identifying the critical point of the weakly first-order itinerant magnet DyCo _{5-x} with complementary magnetization and calorimetric measurements. <i>Physical Review B</i> , 2013, 87, .	3.2	21
131	Low-force compressive and tensile actuation for elastocaloric heat pumps. <i>Applied Materials Today</i> , 2020, 19, 100557.	4.3	21
132	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.	1.9	20
133	The nature of the first order isostructural transition in GdRhSn. <i>Journal of Alloys and Compounds</i> , 2014, 613, 280-287.	5.5	20
134	Dry mechanochemical synthesis of alane from LiH and AlCl ₃ . <i>Faraday Discussions</i> , 2014, 170, 137-153.	3.2	20
135	Breaking the paradigm: record quindecim charged magnetic ionic liquids. <i>Materials Horizons</i> , 2017, 4, 217-221.	12.2	20
136	Evidence for a coupled magnetic-crystallographic transformation in Nd ₅ (Si _{0.6} Ge _{0.4}) ₄ . <i>Physical Review B</i> , 2004, 70, .	3.2	19
137	Training effects in Gd ₅ Ge ₄ : role of microstructure. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 6017-6032. Effect of hydrostatic pressure upon the magnetic transitions in the $\text{Gd}_{5-\text{x}}\text{Ge}_x$ system.	1.8	19
138	Magnetic phase transitions and ferromagnetic short-range correlations in single-crystal $\text{Tb}_{5-\text{x}}\text{Ge}_x$. <i>Physical Review B</i> , 2008, 78, .	3.2	19
139	Magnetostructural properties of $\text{Ho}_{5-\text{x}}\text{Ge}_x$. <i>Physical Review B</i> , 2010, 81, .	3.2	19
140	Extraordinary Responsive Intermetallic Compounds: the $\langle \text{i} \rangle \text{R} \langle \text{i} \rangle \langle \text{sub} \rangle 5 \langle / \text{sub} \rangle \langle \text{i} \rangle \text{T} \langle / \text{i} \rangle \langle \text{sub} \rangle 4 \langle / \text{sub} \rangle$ Family ($\langle \text{i} \rangle \text{R} \langle / \text{i} \rangle$ = Rare Earth, $\langle \text{i} \rangle \text{T} \langle / \text{i} \rangle$ = Group 13–15 Element). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 1948-1956.	1.2	19
141	β -Brasses with Spontaneous Magnetization: Atom Site Preferences and Magnetism in the Fe-Zn and Fe-Pd-Zn Phase Spaces. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 270-278.	1.2	19
142	Ferromagnetic Gd ₅ Si ₄ Nanoparticles as T2 Contrast Agents for Magnetic Resonance Imaging. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-4.	1.1	19

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145	Magnetic properties of Gd ₅ (Si _{1.5} Ge _{2.5}) near the temperature and magnetic field induced first order phase transition. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 231, 135-145.	2.3	18
146	Mechanochemical transformations in NaNH ₂ -MgH ₂ mixtures. <i>Journal of Alloys and Compounds</i> , 2012, 513, 324-327.	5.5	18
147	Solid state electrotransport purification of dysprosium. <i>Journal of Alloys and Compounds</i> , 1995, 226, 190-196.	5.5	17
148	The standard state of cerium. <i>Journal of Phase Equilibria and Diffusion</i> , 1999, 20, 612-614.	0.3	17
149	Magnetic spectroscopy at high pressures using X-ray magnetic circular dichroism. <i>High Pressure Research</i> , 2008, 28, 185-192.	1.2	17
150	Magnetostructural transition in Ho ₅ Ge ₄ . <i>Physical Review B</i> , 2009, 79, .	3.2	17
151	Thermally mediated multiferroic composites for the magnetoelectric materials. <i>Applied Physics Letters</i> , 2010, 96, 102902.	3.3	17
152	Structure evolution and dielectric behavior of polystyrene-capped barium titanate nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, , .	6.7	17
153	Open-Framework Manganese(II) and Cobalt(II) Borophosphates with Helical Chains: Structures, Magnetic, and Luminescent Properties. <i>Inorganic Chemistry</i> , 2017, 56, 11104-11112.	4.0	17
154	Mechanochemical synthesis, luminescent and magnetic properties of lanthanide benzene-1,4-dicarboxylate coordination polymers ($\text{Ln}_{0.5}\text{Gd}_{0.5}$) ₂ (1,4-BDC) ₃ (H ₂ O) ₄ ; Ln = Sm, Eu, Tb. <i>New Journal of Chemistry</i> , 2020, 44, 1054-1062.	2.8	17
155	Effects of pressure on the magnetic and crystallographic structure of Er ₅ Si ₄ . <i>Physical Review B</i> , 2006, 74, .	3.2	16
156	Field-induced magnetostructural transition in $\text{Ln}_{0.5}\text{Gd}_{0.5}$ by pulsed magnetic fields. <i>Physical Review B</i> , 2008, 77, .	8.2	16
157	Magnetocaloric effect of $\text{Er}_{5-x}\text{Gd}_x\text{Si}_4$ under hydrostatic pressure. <i>Physical Review B</i> , 2009, 79, .	16	16
158	Phase relationships, and structural, magnetic, and magnetocaloric properties in the Ce ₅ Si ₄ -Ce ₅ Ge ₄ system. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	16
159	Enhancement of the glass-forming ability by Zr microalloying and its influence on the magnetocaloric properties of bulk amorphous Gd-Co-Al. <i>Journal of Applied Physics</i> , 2010, 108, 053916.	2.5	16
160	Investigation of the thermochemical transformations in the LiAlH ₄ -LiNH ₂ system. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10626-10634.	7.1	16
161	Enhancing Magnetic Functionality with Scandium: Breaking Stereotypes in the Design of Rare Earth Materials. <i>Chemistry of Materials</i> , 2017, 29, 3962-3970.	6.7	16
162	Gd ₅ Si ₂ Ge ₂ composite for magnetostrictive actuator applications. <i>Applied Physics Letters</i> , 2004, 84, 4801-4803.	3.3	15

#	ARTICLE	IF	CITATIONS
163	Temperature dependence of the ferromagnetic order parameter in Gd, Tb, and Dy. Physical Review B, 2006, 73, .	3.2	15
164	Magnetic-field-induced structural transformation in Er5Si4. Physical Review B, 2006, 74, .	3.2	15
165	Spontaneous generation of voltage in single-crystal Gd5Si2Ge2 during magnetostructural phase transformations. Journal of Applied Physics, 2006, 99, 08B304. Phase relationships, and the structural, magnetic, and thermodynamic properties in the system. Physical Review B, 2007, 76, .	2.5	15
166	Mathematical model of the magnetic phase cluster formation in the field-driven AFM-FM transition in Gd5Ge4. Journal of Physics Condensed Matter, 2007, 19, 176213.	3.2	15
167	Dynamics of magnetic phase cluster formation in the field-driven AFM-FM transition in Gd5Ge4. Journal of Physics Condensed Matter, 2007, 19, 176213.	1.8	15
168	Magnetic and magnetothermodynamic properties of Ho5Si4. Journal of Applied Physics, 2010, 107, .	2.5	15
169	Effect of Ca on the microstructure and magnetocaloric effects in the La _{1-x} Ca _x Fe _{1.5} Si _{1.5} compounds. Journal of Alloys and Compounds, 2011, 509, 3746-3750.	5.5	15
170	Spin reorientation transitions in Ho _{1-x} Dy _x Al ₂ alloys. Journal of Applied Physics, 2011, 110, .	2.5	15
171	New magnetic configuration in paramagnetic phase of HoCo ₂ . Journal of Applied Physics, 2012, 111, 07E315.	2.5	15
172	Magnetic and magnetothermal properties and the magnetic phase diagram of high purity single crystalline terbium along the easy magnetization direction. Journal of Physics Condensed Matter, 2014, 26, 066001.	1.8	15
173	Investigating phase transition temperatures of size separated gadolinium silicide magnetic nanoparticles. AIP Advances, 2018, 8, 056428.	1.3	15
174	Inkjet Printing of Magnetic Particles Toward Anisotropic Magnetic Properties. Scientific Reports, 2019, 9, 16261.	3.3	15
175	Angular dependence of the spin-flop transition and a possible structure of the spin-flop phase of Gd ₅ (Si _{0.375} Ge _{0.625}) ₄ . Physical Review B, 2007, 76, .	3.2	14
176	Pressure tuning of the magnetic transition in Gd ₅ (Si _{0.375} Ge _{0.625}) ₄ giant magnetocaloric effect material. Journal of Applied Physics, 2008, 103, .	2.5	14
177	Solid-State NMR Study of Li-Assisted Dehydrogenation of Ammonia Borane. Inorganic Chemistry, 2012, 51, 4108-4115.	4.0	14
178	Magnetocaloric effect of Pr ₂ Fe _{17-x} Mn _x alloys. Rare Metals, 2014, 33, 552-555.	7.1	14
179	Controlling magnetostructural transition and magnetocaloric effect in multi-component transition-metal-based materials. Journal of Applied Physics, 2021, 129, 193901.	2.5	14
180	Magnetoelastic transition and magnetocaloric effect in induction melted Fe _{100-x} R _x bulk alloys with x=50, 51. Journal of Alloys and Compounds, 2021, 871, 159586.	5.5	14

#	ARTICLE	IF	CITATIONS
199	Gadolinium silicide ($\text{Gd}_{5-\text{x}}\text{Si}_4$) nanoparticles for tuneable broad band microwave absorption. Materials Research Express, 2019, 6, 055053.	1.6	12
200	$\text{Gd}_5(\text{Si}_{6-x}\text{Ge}_x)_4$: An Extremum Material. , 2001, 13, 683.		12
201	Concerning the transformations of Ti_3Ir alloy during high-energy ball-milling. Journal of Alloys and Compounds, 2000, 307, 184-190.	5.5	11
202	Spin-flop transition in $\text{Gd}_{5-\text{x}}\text{Ge}_4$. $\text{Gd}_{5-\text{x}}\text{Ge}_4$ observed by x-ray resonant magnetic scattering and first-principles calculations of magnetic anisotropy. Physical Review B, 2008, 77, .	3.2	11
203	Local probing of arrested kinetics in $\text{Gd}_{5-\text{x}}\text{Ge}_4$. Journal of Physics Condensed Matter, 2008, 20, 465212.	1.8	11
204	Crystal structure of $\text{Tb}_5\text{Ni}_2\text{In}_4$ and $\text{Y}_5\text{Ni}_2\text{In}_4$, and magnetic properties of $\text{Dy}_5\text{Ni}_2\text{In}_4$. Journal of Applied Physics, 2012, 111, .	2.5	11
205	Growth and characterization of Pt-protected Gd_5Si_4 thin films. Journal of Applied Physics, 2014, 115, 17C113.	2.5	11
206	Magnetocaloric Effect of Micro- and Nanoparticles of Gd_5Si_4 . Jom, 2019, 71, 3159-3163.	1.9	11
207	Managing hysteresis of $\text{Gd}_5\text{Si}_2\text{Ge}_2$ by magnetic field cycling. Journal of Applied Physics, 2019, 126, 243902.	2.5	11
208	Magnetic and magnetocaloric properties of DyCo_2Cx alloys. Journal of Alloys and Compounds, 2019, 777, 152-156.	5.5	11
209	Hidden first-order phase transitions and large magnetocaloric effects in $\text{GdNi}_{1-x}\text{Co}_x$. Journal of Alloys and Compounds, 2022, 897, 163186.	5.5	11
210	Pressure-induced removal of magnetostructural inhomogeneity in Ge-rich $\text{Gd}_{5-\text{x}}\text{Ge}_4$. $\text{Gd}_{5-\text{x}}\text{Ge}_4$		

#	ARTICLE	IF	CITATIONS
217	Visual evidence of the magnetic glass state and its re-crystallization in Gd ₅ Ge ₄ . <i>Europhysics Letters</i> , 2008, 83, 57006.	2.0	9
218	Influence of Y substitutions on the magnetism of Gd ₅ Ge ₄ . <i>Journal of Applied Physics</i> , 2010, 107, 09A908.	2.5	9
219	Magnetic and structural properties of single-crystalline Er ₅ Ge ₄ . <i>Journal of Applied Physics</i> , 2012, 112, 083905.	3.2	9
220	Unusual magnetic and structural transformations of DyFe ₅ Ge ₄ . <i>Physical Review B</i> , 2012, 85, 134412.	3.2	9
221	Unusual magnetic frustration in Lu-doped Gd ₅ Ge ₄ . <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	9
222	Low temperature crystal structure and magnetic properties of RAl ₂ . <i>Journal of Applied Physics</i> , 2014, 115, 17E109.	2.5	9
223	R ₅ T ₄ Compounds. <i>Fundamental Theories of Physics</i> , 2014, 44, 283-449.	0.3	9
224	Differential effect of magnetic alignment on additive manufacturing of magnetocaloric particles. <i>AIP Advances</i> , 2020, 10, .	1.3	9
225	Effect of Si ₂ O ₅ and applied pressure upon magnetostructural properties of Tb ₅ Ge ₄ . <i>Journal of Alloys and Compounds</i> , 2020, 820, 154020.	1.3	9
226			

#	ARTICLE	IF	CITATIONS
235	Multi-principal element transition metal dichalcogenides via reactive fusion of 3D-heterostructures. Chemical Communications, 2018, 54, 12574-12577.	4.1	7
236	Gd ₅ Si ₄ -PVDF nanocomposite films and their potential for triboelectric energy harvesting applications. AIP Advances, 2019, 9, .	1.3	7
237	Unprecedented generation of 3D heterostructures by mechanochemical disassembly and re-ordering of incommensurate metal chalcogenides. Nature Communications, 2020, 11, 3005.	12.8	7
238	Spontaneous generation of voltage in the magnetocaloric compound $\text{La}_{\frac{3.2}{6}}\text{Mo}_{\frac{6}{3}}$. Physical Review B, 2009, 80, .		
239	Effects of pressure on the magnetic-structural and Griffiths-like transitions in Dy ₅ Si ₃ Ge. Physical Review B, 2013, 88, .	3.2	6
240	Anomalous specific heat and magnetic properties of TmxDy _{1-x} Al ₂ (0% \leq x \leq 1). Journal of Alloys and Compounds, 2019, 774, 321-330.	5.5	6
241	Distinctive exchange bias and unusual memory effects in magnetically compensated Pr _{0.75} Gd _{0.25} Sc ₂ Ge. Journal of Materials Chemistry C, 2021, 9, 181-188.	5.5	6
242	Phase relationships and crystallography of annealed alloys in the Ce ₅ Si ₄ -Ce ₅ Ge ₄ pseudobinary system. Journal of Alloys and Compounds, 2009, 487, 98-102.	5.5	5
243	Mechanochemically driven nonequilibrium processes in MNH ₂ -CaH ₂ systems (M=Li or Na). Journal of Alloys and Compounds, 2010, 506, 224-230.	5.5	5
244	Doping-induced valence change in Yb ₅ Ge ₄ (Sb, Ga) _x (x: (0% \leq x \leq 1)). Hyperfine Interactions, 2012, 208, 59-63.		
245	Crystal structure, magnetic properties, and the magnetocaloric effect of Gd ₅ Rh ₄ and GdRh. Journal of Applied Physics, 2013, 113, .	2.5	5
246	Spin-glass behavior in a giant unit cell compound Tb ₁₁₇ Fe ₅₂ Ge _{113.8(1)} . Journal of Physics Condensed Matter, 2014, 26, 416003.	1.8	5
247	Magnetostructural phase transformations in Tb _{1-x} Mn ₂ . Journal of Materials Chemistry C, 2015, 3, 2422-2430.	5.5	5
248	Tunable magnetism and structural transformations in mixed light- and heavy-lanthanide dialuminides. Physical Review B, 2016, 94, .	3.2	5
249	Towards Direct Synthesis of Alane: A Predicted Defect-Mediated Pathway Confirmed Experimentally. ChemSusChem, 2016, 9, 2358-2364.	6.8	5
250	The first-order magnetoelastic transition in Eu ₂ In: A ¹⁵¹ Eu Mössbauer study. AIP Advances, 2019, 9, 125137.	1.3	5
251	Magnetic structure of selected Gd intermetallic alloys from first principles. Physical Review B, 2020, 101, .	3.2	5
252	Bulk-like first-order magnetoelastic transition in FeRh particles. Journal of Alloys and Compounds, 2022, 921, 165993.	5.5	5

#	ARTICLE	IF	CITATIONS
253	Experimental investigation of the electronic structure of $Gd_5Ge_2Si_2$ by photoemission and x-ray absorption spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 186219. Magnetic, thermal, and transport properties of the mixed-valent vanadium oxides mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}><\text{mml:mrow}><\text{mml:msub}><\text{mml:mrow}><\text{mml:mtext}>LuV</\text{mml:mtext}></\text{mml:mrow}><\text{mml:mn}>4</\text{mml:mn}></\text{mml:msub}>$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}><\text{mml:mrow}><\text{mml:msub}><\text{mml:mrow}><\text{mml:mtext}>YV</\text{mml:mtext}></\text{mml:mrow}><\text{mml:mn}>4</\text{mml:mn}></\text{mml:msub}>$	1.8	4
254	Physical Review B, 2010, 81, . Magnetic properties of $Er_{1-x}Dy_xAl_2$ ($0 \leq x \leq 1$) compounds in low applied fields. <i>Journal of Applied Physics</i> , 2010, 107, 09A723.	3.2	4
255	First order transition in Dy_5Si_3Ge : Transport and thermal properties, and first principles calculations. <i>Journal of Applied Physics</i> , 2011, 109, 07A923.	2.5	4
256	Ferromagnetic ordering and Griffiths-like phase behavior in $Gd_5Ge_3.9Al_0.1$. <i>Journal of Applied Physics</i> , 2013, 114, 063904.	2.5	4
257	Formation of Co Moment in the Paramagnetic Phase of RCo_2 . <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	4
258	Magnetic properties and magnetic entropy changes of MRE_2Co_7 compounds. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1.	5.1	4
260	Magnetostructural behavior in the non-centrosymmetric compound Nd_7Pd_3 . <i>Journal of Physics Condensed Matter</i> , 2019, 31, 265801.	1.8	4
261	Incommensurate transition-metal dichalcogenides $i>via</i>$ mechanochemical reshuffling of binary precursors. <i>Nanoscale Advances</i> , 2021, 3, 4065-4071.	5.5	4
262	Correlating Crystallography, Magnetism, and Electronic Structure Across Anhysteretic First-Order Phase Transition in Pr_2In . <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 043005.	4.6	4
263	Preparation and electrochemical properties of some $(Sc_{1-x}Ti_x)Ni$ alloys. <i>Journal of Alloys and Compounds</i> , 2000, 296, 67-71.	1.8	4
264	Magnetothermal Properties of Polycrystalline Gd_2In . , 2002, , 457-464.	5.5	3
265	Inelastic neutron scattering study of the intra-lanthanide alloys Er_xPr_{1-x} ($x=0.6, 0.8$). <i>Physical Review B</i> , 2003, 68, .	3.2	3
266	Magnetostructural transition in $Ce(Fe_{0.975}Ga_{0.025})_2$ compound. <i>Journal of Applied Physics</i> , 2010, 107, 09E133.	2.5	3
267	Magnetic properties of $Ho_{1-x}Er_xAl_2$ alloys. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	3
268	On the magnetic order of Gd_5Ge_3 . <i>Journal of Applied Physics</i> , 2014, 115, 17A901.	2.5	3
269	A benign synthesis of alane by the composition-controlled mechanochemical reaction of sodium hydride and aluminum chloride. <i>Journal of Materials Science</i> , 2017, 52, 11900-11910.	3.7	3

#	ARTICLE	IF	CITATIONS
271	Anomalous effects of Sc substitution and processing on magnetism and structure of $(\text{Gd}_{1-x}\text{Sc}_x)\text{Ge}_4$. Journal of Magnetism and Magnetic Materials, 2019, 474, 482-492.	2.3	3
272	Low-Temperature Crystal Structure and Mean-Field Modeling of $\text{Er}_x\text{Dy}_{1-x}\text{Al}_2$ Intermetallics. Metals, 2020, 10, 1662.	2.3	3
273	Toward efficient elastocaloric systems: Predicting material thermal properties with high fidelity. Acta Materialia, 2021, 217, 117162.	7.9	3
274	Indium segregation in $\text{Gd}_5(\text{Si},\text{Ge})_4$ magnetocaloric materials. Journal of Alloys and Compounds, 2022, 893, 162245.	5.5	3
275	Crystal structure and physical properties of $\text{Yb}_{2-x}\text{Eu}_x$. Physical Review Materials, 2020, 4, . and $\text{Eu}_{2-x}\text{Yb}_x$. Physical Review Materials, 2020, 4, .	2.4	3
276	Influence of Pr on the magnetic structure of Er. Journal of Applied Physics, 2002, 91, 8531.	2.5	2
277	Effects of mechanical grinding and low temperature annealing on crystal structure of Er_5Si_4 . Journal of Alloys and Compounds, 2013, 556, 127-134.	5.5	2
278	Magnetic and transport behaviors of non-centrosymmetric $\text{Nd}_7\text{Ni}_2\text{Pd}$. AIP Advances, 2020, 10, 015103.	1.3	2
279	Protein-assisted scalable mechanochemical exfoliation of few-layer biocompatible graphene nanosheets. Royal Society Open Science, 2021, 8, 200911.	2.4	2
280	Extraordinarily strong magneto-responsiveness in phase-separated LaFe_2Si . Acta Materialia, 2021, 215, 117083.	7.9	2
281	In-situ powder diffraction in high magnetic fields. Zeitschrift für Kristallographie, Supplement, 2007, 2007, 139-145. From T_{b} to N_{b} to i_{b} to n_{b}	0.5	2
282	$\text{Dy}_{1-x}\text{Yb}_x$ single crystals. Physical Review B, 2011, 84, .	2.4	2
283	Inducing Fe moment in LaFeSi with p-block element substitution. AIP Advances, 2022, 12, .	1.3	2
284	Asymmetry of the latent heat signature in $\text{b}-\text{axis}$ oriented single crystal $\text{Gd}_5\text{Si}_2\text{Ge}_2$. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	1
285	Magnetic and thermal properties of $\text{Er}_{1-x}\text{Dy}_x$ single crystals. Physical Review B, 2011, 84, .	3.2	1
286	In situ X-ray powder diffraction study of Ho_5Ge_4 . Journal of Applied Physics, 2014, 115, 17E105.	2.5	1
287	Controlling magnetism via transition metal exchange in the series of intermetallics $\text{Eu}(\text{T}_1,\text{T}_2)_5\text{In}$ ($\text{T} = \text{Ti}, \text{V}, \text{Cr}, \text{Mn}, \text{Fe}, \text{Co}, \text{Ni}$). Physical Review B, 2011, 84, .	5.5	1
288	Stability of magnetocaloric $\text{La}(\text{Fe}_{1-x}\text{Co}_x\text{Si}_1-\text{x})_{13}$ in water and air. AIP Advances, 2019, 9, 035239.	1.3	1

#	ARTICLE		IF	CITATIONS
289	Synthesis, Structure, and Hydrogen-Sorption Properties of $(\text{Ti}, \text{Zr})_4\text{Ni}_2\text{N}_x$ Subnitrides. Materials Science, 2017, 53, 306-315.		0.9	1
290	Anomalous electrical transport behavior in the vicinity of the first-order magnetostructural transition in the giant magnetocaloric $\text{Gd}_{3.2}\text{Mn}_{4.1}$. Physical Review B, 2022, 105, .			
291	Room temperature ferromagnetic nanoparticles of $\text{Gd}_{5}\text{Si}_{4}$, 2015, .		0	
292	Antiferromagnetism of $\hat{\ell}^2\text{-Ce}$ under hydrostatic pressure. Solid State Communications, 2019, 294, 36-38.		1.9	0
293	A New Complex Borohydride $\text{LiAl}(\text{BH}_4)_2\text{Cl}_2$. Inorganics, 2021, 9, 35.		2.7	0
294	Crystal and Magnetic Structures of the Ternary $\text{Ho}_2\text{Ni}_{0.8}\text{Si}_{1.2}$ and $\text{Ho}_2\text{Ni}_{0.8}\text{Ge}_{1.2}$ Compounds: An Example of Intermetallics Crystallizing with the $\text{Zr}_2\text{Ni}_1\text{xP}$ Prototype. Inorganic Chemistry, 2021, 60, 16397-16408.		4.0	0