

Vitalij K Pecharsky

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Thermal properties of $\text{Ho}_{1-x}\text{Pr}_x\text{Ni}_2\text{Si}_2$. Journal of Alloys and Compounds, 2022, 893, 162245.	2.8	3
2	Indium segregation in $\text{Gd}_5(\text{Si}, \text{Ge})_4$ magnetocaloric materials. Journal of Alloys and Compounds, 2022, 897, 163186.	2.8	11
3	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.	2.8	11
4	Correlating Crystallography, Magnetism, and Electronic Structure Across An hysteretic First-Order Phase Transition in $\text{Pr}_{2-x}\text{In}_x$. ECS Journal of Solid State Science and Technology, 2022, 11, 043005.	0.9	4
5	Inducing Fe moment in LaFeSi with p-block element substitution. AIP Advances, 2022, 12, .	0.6	2
6	Anomalous electrical transport behavior in the vicinity of the first-order magnetostructural transition in the giant magnetocaloric $\text{Gd}_{1-x}\text{Ni}_x$. Physical Review B, 2022, 105, .	1.1	1
7	Bulk-like first-order magnetoelastic transition in FeRh particles. Journal of Alloys and Compounds, 2022, 921, 165993.	2.8	5
8	Distinctive exchange bias and unusual memory effects in magnetically compensated $\text{Pr}_{0.75}\text{Gd}_{0.25}\text{ScGe}$. Journal of Materials Chemistry C, 2021, 9, 181-188.	2.7	6
9	Protein-assisted scalable mechanochemical exfoliation of few-layer biocompatible graphene nanosheets. Royal Society Open Science, 2021, 8, 200911.	2.8	4
10	Protein-assisted scalable mechanochemical exfoliation of few-layer biocompatible graphene nanosheets. Royal Society Open Science, 2021, 8, 200911.	1.1	2
11	Unlocking large compressive strains in thin active elastocaloric layers. Applied Thermal Engineering, 2021, 190, 116850.	3.0	13
12	A New Complex Borohydride $\text{LiAl}(\text{BH}_4)_2\text{Cl}_2$. Inorganics, 2021, 9, 35.	1.2	0
13	Controlling magnetostructural transition and magnetocaloric effect in multi-component transition-metal-based materials. Journal of Applied Physics, 2021, 129, 193901.	1.1	14
14	Extraordinarily strong magneto-responsiveness in phase-separated LaFe_2Si . Acta Materialia, 2021, 215, 117083.	3.8	2
15	Magnetoelastic transition and magnetocaloric effect in induction melted $\text{Fe}_{100-x}\text{Rhx}$ bulk alloys with $x=50$. Journal of Alloys and Compounds, 2021, 871, 159586.	2.8	14
16	Toward efficient elastocaloric systems: Predicting material thermal properties with high fidelity. Acta Materialia, 2021, 217, 117162.	3.8	3
17	Incommensurate transition-metal dichalcogenides <i>via</i> mechanochemical reshuffling of binary precursors. Nanoscale Advances, 2021, 3, 4065-4071.	2.2	4
18	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 $\text{Zr}_2\text{Ni}_1\text{P}$ Prototype. Inorganic Chemistry, 2021, 60, 16397-16408.	1.9	0

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19	The effect of cooling rate on magnetothermal properties of Fe ₄₉ Rh ₅₁ . Journal of Magnetism and Magnetic Materials, 2020, 498, 166130.	1.0	32
20	Mechanochemical synthesis, luminescent and magnetic properties of lanthanide benzene-1,4-dicarboxylate coordination polymers (Ln _{0.5} Gd _{0.5}) ₂ (1,4-BDC) ₃ (H ₂ O) ₄ ; Ln = Sm, Eu, Tb. New Journal of Chemistry, 2020, 44, 1054-1062.	1.4	17
21	Low-Temperature Crystal Structure and Mean-Field Modeling of Er _x Dy _{1-x} Al ₂ Intermetallics. Metals, 2020, 10, 1662.	1.0	3
22	Free-energy analysis of the nonhysteretic first-order phase transition of $\text{Eu}_{1-x}\text{Mn}_x$. Physical Review B, 2020, 102, .		
23	First-order magnetic phase transition in $\text{P}_{1-x}\text{In}_x$ with negligible thermomagnetic hysteresis. Physical Review B, 2020, 101, .	1.1	28
24	Unprecedented generation of 3D heterostructures by mechanochemical disassembly and re-ordering of incommensurate metal chalcogenides. Nature Communications, 2020, 11, 3005.	5.8	7
25	Magnetic structure of selected Gd intermetallic alloys from first principles. Physical Review B, 2020, 101, .	1.1	5
26	Differential effect of magnetic alignment on additive manufacturing of magnetocaloric particles. AIP Advances, 2020, 10, .	0.6	9
27	Magnetic and transport behaviors of non-centrosymmetric Nd ₇ Ni ₂ Pd. AIP Advances, 2020, 10, 015103.	0.6	2
28	Low-force compressive and tensile actuation for elastocaloric heat pumps. Applied Materials Today, 2020, 19, 100557.	2.3	21
29	Compact and efficient elastocaloric heat pumps—Is there a path forward?. Journal of Applied Physics, 2020, 127, .	1.1	25
30	Crystal structure and physical properties of Yb_2Mn_2 and Eu_2Mn_2 alloys. Physical Review Materials, 2020, 4, .	0.9	3
31	Magnetocaloric Effect of Micro- and Nanoparticles of Gd ₅ Si ₄ . Jom, 2019, 71, 3159-3163.	0.9	11
32	Designed materials with the giant magnetocaloric effect near room temperature. Acta Materialia, 2019, 180, 341-348.	3.8	73
33	Giant enhancement of the magnetocaloric response in NiCoMnTi by rapid solidification. Acta Materialia, 2019, 173, 225-230.	3.8	76
34	Stability of magnetocaloric La(FexCoySi _{1-x-y}) ₁₃ in water and air. AIP Advances, 2019, 9, 035239.	0.6	1
35	Magnetostructural behavior in the non-centrosymmetric compound Nd ₇ Pd ₃ . Journal of Physics Condensed Matter, 2019, 31, 265801.	0.7	4
36	Gd ₅ Si ₄ -PVDF nanocomposite films and their potential for triboelectric energy harvesting applications. AIP Advances, 2019, 9, .	0.6	7

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37	Antiferromagnetism of \hat{I}^2 -Ce under hydrostatic pressure. Solid State Communications, 2019, 294, 36-38.	0.9	0
38	Enhancement of microwave absorption bandwidth of polymer blend using ferromagnetic gadolinium silicide nanoparticles. Materials Letters, 2019, 252, 178-181.	1.3	12
39	Mechanochemical reactions and hydrogen storage capacities in MBH4 \hat{e} "SiS2 systems (M Li or Na). International Journal of Hydrogen Energy, 2019, 44, 7381-7391.	3.8	13
40	Managing hysteresis of Gd5Si2Ge2 by magnetic field cycling. Journal of Applied Physics, 2019, 126, 243902.	1.1	11
41	The first-order magnetoelastic transition in Eu2In: A ^{151}Eu M \hat{e} ssbauer study. AIP Advances, 2019, 9, 125137.	0.6	5
42	Inkjet Printing of Magnetic Particles Toward Anisotropic Magnetic Properties. Scientific Reports, 2019, 9, 16261.	1.6	15
43	Gadolinium silicide (Gd ₅ Si ₄) nanoparticles for tuneable broad band microwave absorption. Materials Research Express, 2019, 6, 055053.	0.8	12
44	Anomalous effects of Sc substitution and processing on magnetism and structure of (Gd $^{\wedge}$ xScx)5Ge4. Journal of Magnetism and Magnetic Materials, 2019, 474, 482-492.	1.0	3
45	Magnetic and magnetocaloric properties of DyCo2Cx alloys. Journal of Alloys and Compounds, 2019, 777, 152-156.	2.8	11
46	Anomalous specific heat and magnetic properties of TmxDy1-xAl2 (0 \hat{a} % \hat{A} x \hat{a} % 1). Journal of Alloys and Compounds, 2019, 774, 321-330.	2.8	6
47	http://www.w3.org/1998/Math/MathML <mml:mrow><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> to	0.9	2
48	Caloric effects in ferroic materials. MRS Bulletin, 2018, 43, 264-268.	1.7	57
49	Material-based figure of merit for caloric materials. Journal of Applied Physics, 2018, 123, .	1.1	244
50	Mechanochemistry of the LiBH ₄ \hat{e} "AlCl ₃ System: Structural Characterization of the Products by Solid-State NMR. Journal of Physical Chemistry C, 2018, 122, 1955-1962.	1.5	7
51	Magnetostructural phase transitions and magnetocaloric effect in (Gd5-xScx)Si1.8Ge2.2. Acta Materialia, 2018, 145, 369-376.	3.8	34
52	Investigating phase transition temperatures of size separated gadolinium silicide magnetic nanoparticles. AIP Advances, 2018, 8, 056428.	0.6	15
53	Best practices in evaluation of the magnetocaloric effect from bulk magnetization measurements. Journal of Magnetism and Magnetic Materials, 2018, 458, 301-309.	1.0	54
54	High-throughput search for caloric materials: the CaloriCool approach. Journal Physics D: Applied Physics, 2018, 51, 024002.	1.3	46

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55	Controlling magnetism via transition metal exchange in the series of intermetallics $\text{Eu}(\text{T}_1, \text{T}_2)_5\text{In}$ ($\text{T} = \text{Tj, ET, Qq, 1, 1}$)	0.784314	14
56	Multi-principal element transition metal dichalcogenides via reactive fusion of 3D-heterostructures. <i>Chemical Communications</i> , 2018, 54, 12574-12577.	2.2	7
57	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.	3.8	29
58	Non-hysteretic first-order phase transition with large latent heat and giant low-field magnetocaloric effect. <i>Nature Communications</i> , 2018, 9, 2925.	5.8	102
59	Anisotropy induced anomalies in $\text{Dy}_{1-x}\text{Tb}_x\text{Al}_2$. <i>Journal of Materials Chemistry C</i> , 2017, 5, 896-901.	2.7	7
60	Enhancement of β -phase in PVDF films embedded with ferromagnetic Gd_5Si_4 nanoparticles for piezoelectric energy harvesting. <i>AIP Advances</i> , 2017, 7, .	0.6	42
61	Magnetocaloric Behavior in Ternary Europium Indides EuT_5In : Probing the Design Capability of First-Principles-Based Methods on the Multifaceted Magnetic Materials. <i>Chemistry of Materials</i> , 2017, 29, 2599-2614.	3.2	29
62	$\text{EuNi}_5\text{InH}_{1.5x}$ ($x = 0 \text{--} 1.5$): hydrogen induced structural and magnetic transitions. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2994-3006.	2.7	10
63	Enhancing Magnetic Functionality with Scandium: Breaking Stereotypes in the Design of Rare Earth Materials. <i>Chemistry of Materials</i> , 2017, 29, 3962-3970.	3.2	16
64	$\text{Cu}_3\text{Au}_9\text{Pn}$ ($\text{Pn} = \text{Y, Gd--Tm; Pn} = \text{Sb, Bi}$): A Link between $\text{Cu}_{10}\text{Sn}_3$ and $\text{Gd}_{14}\text{Ag}_{51}$. <i>Inorganic Chemistry</i> , 2017, 56, 7247-7256.	1.9	10
65	Breaking the paradigm: record quindecim charged magnetic ionic liquids. <i>Materials Horizons</i> , 2017, 4, 217-221.	6.4	20
66	Open-Framework Manganese(II) and Cobalt(II) Borophosphates with Helical Chains: Structures, Magnetic, and Luminescent Properties. <i>Inorganic Chemistry</i> , 2017, 56, 11104-11112.	1.9	17
67	Ferromagnetic Gd_5Si_4 Nanoparticles as T2 Contrast Agents for Magnetic Resonance Imaging. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-4.	0.6	19
68	Role of mml:math in crystallographic and magnetic complexity. <i>Physical Review B</i> , 2017, 96, .	1.1	8
69	Crystal, magnetic, calorimetric and electronic structure investigation of $\text{GdScGe}_{1-x}\text{Sbx}$ compounds. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 485802.	0.7	10
70	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.	1.7	3
71	Solvent-free mechanochemical synthesis and magnetic properties of rare-earth based metal-organic frameworks. <i>Journal of Alloys and Compounds</i> , 2017, 696, 118-122.	2.8	39
72	Synthesis, Structure, and Hydrogen-Sorption Properties of $(\text{Ti, Zr})_4\text{Ni}_2\text{N}_x$ Subnitrides. <i>Materials Science</i> , 2017, 53, 306-315.	0.3	1

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73	(Magneto)caloric refrigeration: is there light at the end of the tunnel?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150305.	1.6	37
74	Tunable magnetism and structural transformations in mixed light- and heavy-lanthanide dialuminides. Physical Review B, 2016, 94, .	1.1	5
75	Balancing structural distortions via competing 4f and itinerant interactions: a case of polymorphism in magnetocaloric HoCo ₂ . Journal of Materials Chemistry C, 2016, 4, 4521-4531.	2.7	29
76	Towards Direct Synthesis of Alane: A Predicted Defect-Mediated Pathway Confirmed Experimentally. ChemSusChem, 2016, 9, 2358-2364.	3.6	5
77	Gd ₃ Ni ₂ and Gd ₃ Co _x Ni _{2-x} : magnetism and unexpected Co/Ni crystallographic ordering. Journal of Materials Chemistry C, 2016, 4, 6078-6089.	2.7	22
78	The effect of boron doping on crystal structure, magnetic properties and magnetocaloric effect of DyCo ₂ . Journal of Magnetism and Magnetic Materials, 2016, 405, 122-128.	1.0	13
79	Magnetic properties and magnetic entropy changes of MRE ₂ Co ₇ compounds. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	2.0	4
80	Room temperature ferromagnetic nanoparticles of Gd ₅ Si ₄ . , 2015, , .		0
81	Brasses with Spontaneous Magnetization: Atom Site Preferences and Magnetism in the Fe-Zn and Fe-Pd-Zn Phase Spaces. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 270-278.	0.6	19
82	Complex Magnetism of Lanthanide Intermetallics and the Role of their Valence Electrons: Theory and Experiment. Physical Review Letters, 2015, 115, 207201.	2.9	24
83	Magnetostructural phase transformations in Tb _x Mn ₂ . Journal of Materials Chemistry C, 2015, 3, 2422-2430.	2.7	5
84	Investigation of Room Temperature Ferromagnetic Nanoparticles of Gd ₅ Si ₄ . IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	26
85	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. Inorganic Chemistry, 2015, 54, 10296-10308.	1.9	30
86	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.	0.7	15
87	Low temperature crystal structure and magnetic properties of RAl ₂ . Journal of Applied Physics, 2014, 115, 17E109.	1.1	9
88	In situ X-ray powder diffraction study of Ho ₅ Ge ₄ . Journal of Applied Physics, 2014, 115, 17E105.	1.1	1
89	Growth and characterization of Pt-protected Gd ₅ Si ₄ thin films. Journal of Applied Physics, 2014, 115, 17C113.	1.1	11
90	On the magnetic order of Gd ₅ Ge ₃ . Journal of Applied Physics, 2014, 115, 17A901.	1.1	3

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91	Formation of Co Moment in the Paramagnetic Phase of RCo_2 . IEEE Transactions on Magnetism, 2014, 50, 1-4.	1.2	4
92	R5T4 Compounds. Fundamental Theories of Physics, 2014, 44, 283-449.	0.1	9
93	Spin-glass behavior in a giant unit cell compound $\text{Tb}_{117}\text{Fe}_{52}\text{Ge}_{113.8(1)}$. Journal of Physics Condensed Matter, 2014, 26, 416003.	0.7	5
94	Unexpected magnetism, Griffiths phase, and exchange bias in the mixed lanthanide $\text{Pr}_{1-x}\text{Er}_x$. Journal of Applied Physics, 2014, 115, 044302.	1.1	23
95	The nature of the first order isostructural transition in GdRhSn . Journal of Alloys and Compounds, 2014, 613, 280-287.	2.8	20
96	Dry mechanochemical synthesis of alane from LiH and AlCl_3 . Faraday Discussions, 2014, 170, 137-153.	1.6	20
97	Magnetocaloric effect of $\text{Pr}_2\text{Fe}_{17-x}\text{Mn}_x$ alloys. Rare Metals, 2014, 33, 552-555.	3.6	14
98	Solvent-free mechanochemical synthesis of alane, AlH_3 : effect of pressure on the reaction pathway. Green Chemistry, 2014, 16, 4378-4388.	4.6	27
99	Electronic structure, magnetic properties, and magnetostructural transformations in rare earth dialuminides. Journal of Applied Physics, 2014, 115, 044302.	1.1	8
100	Electronic contribution to the enhancement of the ferromagnetic ordering temperature by Si substitution in $\text{Gd}_{1-x}\text{Si}_x$. Journal of Applied Physics, 2014, 115, 044302.		

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109	Anomalous Schottky Specific Heat and Structural Distortion in Ferromagnetic PrAl_2 . Physical Review Letters, 2013, 110, 186405.	2.9	38
110	Magnetic properties of $\text{Ho}_{1-x}\text{Er}_x\text{Al}_2$ alloys. Journal of Applied Physics, 2013, 113, .	1.1	3
111	Unusual magnetic frustration in Lu-doped Gd_5Ge_4 . Journal of Applied Physics, 2013, 113, .	1.1	9
112	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, .	1.1	11
113	Anisotropic magnetic deflagration in single crystals of $\text{Gd}_5\text{Si}_2\text{Ge}_2$. Physical Review B, 2012, 85, .	1.1	7
114	Low-temperature crystal structure and magnetic properties of $\text{Gd}_5\text{Si}_2\text{Ge}_2$. Physical Review B, 2012, 85, .	1.1	12
115	Magnetism and magnetocaloric effect of single-crystal Si_2Mn_5 . Physical Review B, 2012, 85, .	1.1	10
116	Magnetic and structural properties of single-crystalline $\text{Er}_5\text{Si}_2\text{Mn}_4$. Physical Review B, 2012, 85, .	1.1	9
117	On the nature of the magnetocaloric effect of the first-order magnetostructural transition. Scripta Materialia, 2012, 67, 572-577.	2.6	167
118	Solid-State NMR Study of Li-Assisted Dehydrogenation of Ammonia Borane. Inorganic Chemistry, 2012, 51, 4108-4115.	1.9	14
119	Mechanochemical transformations in NaNH_2 - MgH_2 mixtures. Journal of Alloys and Compounds, 2012, 513, 324-327.	2.8	18
120	New magnetic configuration in paramagnetic phase of HoCo_2 . Journal of Applied Physics, 2012, 111, 07E315.	1.1	15
121	Barocaloric effect in the magnetocaloric prototype $\text{Gd}_5\text{Si}_2\text{Ge}_2$. Applied Physics Letters, 2012, 101, 071906.	1.5	127
122	Structure evolution and dielectric behavior of polystyrene-capped barium titanate nanoparticles. Journal of Materials Chemistry, 2012, , .	6.7	17
123	Doping-induced valence change in Yb_5Ge_4 (Sb, Ga) x : ($x \in [0, 1]$). Hyperfine Interactions, 2012, 208, 59-63.		
124	Asymmetry of the latent heat signature in c -axis oriented single crystal $\text{Gd}_5\text{Si}_2\text{Ge}_2$. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	1
125	Crystal structure and magnetic properties of R_5Sn_4 alloys, where R is Tb, Dy, Ho, and Er. Journal of Applied Physics, 2011, 109, 07A917.	1.1	7
126	Effect of Ca on the microstructure and magnetocaloric effects in the $\text{La}_{1-x}\text{Ca}_x\text{Fe}_{1.5}\text{Si}_{1.5}$ compounds. Journal of Alloys and Compounds, 2011, 509, 3746-3750.	2.8	15

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127	First order transition in Dy ₅ Si ₃ Ge: Transport and thermal properties, and first principles calculations. Journal of Applied Physics, 2011, 109, 07A923.	1.1	4
128	Investigation of the thermochemical transformations in the LiAlH ₄ –LiNH ₂ system. International Journal of Hydrogen Energy, 2011, 36, 10626-10634.	3.8	16
129	Extraordinary Responsive Intermetallic Compounds: the R ₅ T ₄ Family (R = Rare Earth, T = Group 13–15 Element). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 1948-1956.	0.6	19
130	The role of demagnetization factor in determining the $\mu_0 H_{c2}$ value of the Curie temperature. Journal of Magnetism and Magnetic Materials, 2011, 323, 2453-2457.	1.0	28
131	Magnetic and thermal properties of Er ₇₅ Mn ₂₅ single crystals. Physical Review B, 2011, 84, .	1.1	1
132	Spin reorientation transitions in Ho _{1-x} Dy _x Al ₂ alloys. Journal of Applied Physics, 2011, 110, . Electronic structure, magnetic properties, and magnetostructural transition in Tb	1.1	15
133	Effect of Si-doping and applied pressure upon magnetostructural properties of Tb	1.1	12
134			

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145	Magnetic properties of $\text{Er}_{1-x}\text{Dy}_x\text{Al}_2$ ($0 \leq x \leq 1$) compounds in low applied fields. Journal of Applied Physics, 2010, 107, 09A723.	1.1	4
146	Influence of Y substitutions on the magnetism of Gd_5Ge_4 . Journal of Applied Physics, 2010, 107, 09A908.	1.1	9
147	Magnetostructural transition in $\text{Ce}(\text{Fe}_{0.975}\text{Ga}_{0.025})_2$ compound. Journal of Applied Physics, 2010, 107, 09E133.	1.1	3
148	Magnetic and magnetothermodynamic properties of Ho_5Si_4 . Journal of Applied Physics, 2010, 107, .	1.1	15
149	Consequences of the magnetocaloric effect on magnetometry measurements. Journal of Applied Physics, 2010, 108, .	1.1	13
150	Mechanically induced reactions in organic solids: liquid eutectics or solid-state processes?. New Journal of Chemistry, 2010, 34, 25-28.	1.4	60
151	Mechanochemically driven nonequilibrium processes in $\text{MNH}_2\text{-CaH}_2$ systems (M=Li or Na). Journal of Alloys and Compounds, 2010, 506, 224-230.	2.8	5
152	Enhancement of the glass-forming ability by Zr microalloying and its influence on the magnetocaloric properties of bulk amorphous Gd-Co-Al . Journal of Applied Physics, 2010, 108, 053916.	1.1	16
153	Competing crystal and magnetic structures in Gd_5Ge_4 . Physical Review B, 2010, 82, .	1.1	10
154	Magnetostructural transition in Ho_5Ge_4 . Physical Review B, 2009, 79, .	1.1	17
155	Magnetocaloric effect of $\text{Er}_{1-x}\text{La}_x\text{Ni}_5$ under hydrostatic pressure. Physical Review B, 2009, 79, .	1.1	6
156	Spontaneous generation of voltage in the magnetocaloric compound $\text{La}_{1-x}\text{Ni}_5$. Physical Review B, 2009, 80, .	1.1	6
157	Electrical resistivity and magnetoresistance of single-crystal $\text{Tb}_{1-x}\text{Ni}_5$. Physical Review B, 2009, 80, .	1.1	17
158	Magnetic, magnetocaloric and magnetoresistance properties of Nd_7Pd_3 . Journal of Physics Condensed Matter, 2009, 21, 456004.	0.7	12
159	Metamagnetism Seeded by Nanostructural Features of Single-Crystalline $\text{Gd}_5\text{Si}_2\text{Ge}_2$. Advanced Materials, 2009, 21, 3780-3783.	11.1	61
160	Making the most of the magnetic and lattice entropy changes. Journal of Magnetism and Magnetic Materials, 2009, 321, 3541-3547.	1.0	84
161	Magnetostructural transition in $\text{Gd}_5\text{Si}_2\text{Ge}_2$. Physical Review B, 2009, 80, .	1.1	17
162	The magnetothermal behavior of mixed-valence Eu_3O_4 . Journal of Applied Physics, 2009, 106, 043918.	1.1	13

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163	Spontaneous generation of voltage in the magnetocaloric compound Tb ₅ Si _{2.2} Ge _{1.8} and elemental Gd. Journal of Alloys and Compounds, 2009, 488, 550-553.	2.8	7
164	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.	2.8	5
165	Thirty years of near room temperature magnetic cooling: Where we are today and future prospects. International Journal of Refrigeration, 2008, 31, 945-961.	1.8	594
166	Overview No. 145 Metamagnetic transitions, phase coexistence and metastability in functional magnetic materials. Acta Materialia, 2008, 56, 5895-5906.	3.8	74
167	Origins of ferromagnetism and antiferromagnetism in Gd ₅ Ge ₄ . Journal of Physics Condensed Matter, 2008, 20, 235235.	0.7	30
168	Understanding the extraordinary magnetoelastic behavior in GdNi. Physical Review B, 2008, 78, .	1.1	25
169	Spin flop transition in Gd_5Ge_4 observed by x-ray resonant magnetic scattering and first-principles calculations of magnetic anisotropy. Physical Review B, 2008, 77, .	1.1	11
170	Magnetic spectroscopy at high pressures using X-ray magnetic circular dichroism. High Pressure Research, 2008, 28, 185-192.	0.4	17
171	Magnetostructural transition in Gd ₅ Si _{0.5} Ge _{3.5} : Magnetic and x-ray powder diffraction measurements, and theoretical calculations. Physical Review B, 2008, 77, .	1.1	36
172	Local probing of arrested kinetics in Gd ₅ Ge ₄ . Journal of Physics Condensed Matter, 2008, 20, 465212.	0.7	11
173	Unusual magnetic properties of Gd_5Si_4 observed by x-ray resonant magnetic scattering and first-principles calculations of magnetic anisotropy. Physical Review B, 2008, 77, .	1.1	30
174	Pressure-induced removal of magnetostructural inhomogeneity in Ge-rich Gd_5Si_4 . Physical Review B, 2008, 77, .		

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181	Field-cooling size and temperature effects on the character of the magnetostructural transformation in Gd_5Ge_4 . Physical Review B, 2007, 76, .	1.1	21
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183	Devitrification of the low temperature magnetic-glass state in Gd_5Ge_4 . Physical Review B, 2007, 75, .	1.1	47
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