Vitalij K Pecharsky

List of Publications by Year
in descending order

294 papers	23,565 citations	18482 62 h-index	8167 148 g-index
304 all docs	304 docs citations	304 times ranked	6926 citing authors

#	Article	IF	Citations
1	Magnetothermal properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si24.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="bold">H</mml:mi><mml:mi mathvariant="bold">o</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>-</mml:mo><mml:mi mathvariant="bold-italic">x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="bold">D</mml:mi><mml:mi	2.8	9
2	Indium segregation in Gd5(Si,ÂGe)4 magnetocaloric materials. Journal of Alloys and Compounds, 2022, 893, 162245.	5.5	3
3	Hidden first-order phase transitions and large magnetocaloric effects in GdNi1â^'xCox. Journal of Alloys and Compounds, 2022, 897, 163186.	5.5	11
4	Correlating Crystallography, Magnetism, and Electronic Structure Across Anhysteretic First-Order Phase Transition in Pr₂In. ECS Journal of Solid State Science and Technology, 2022, 11, 043005.	1.8	4
5	Inducing Fe moment in LaFeSi with p-block element substitution. AIP Advances, 2022, 12, .	1.3	2
6	Anomalous electrical transport behavior in the vicinity of the first-order magnetostructural transition in the giant magnetocaloric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Gd</mml:mi><mml:mn>4</mml:mn></mml:msub><mml: Physical Review B, 2022, 105, .	3.2	1
7	Bulk-like first-order magnetoelastic transition in FeRh particles. Journal of Alloys and Compounds, 2022, 921, 165993.	5.5	5
8	Distinctive exchange bias and unusual memory effects in magnetically compensated Pr_{0.75}Gd_{0.25}ScGe. Journal of Materials Chemistry C, 2021, 9, 181-188.	5.5	6
9	Magnetocaloric properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mrow><mml:mi mathvariant="bold">T</mml:mi><mml:msub><mml:mi mathvariant="bold">m</mml:mi><mml:mi mathvariant="bold-italic">x</mml:mi></mml:msub><mml:mi mathvariant="bold">D</mml:mi><mml:msub><mml:mi mathvariant="bold">y</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi	5.5	4
10	Protein-assisted scalable mechanochemical exfoliation of few-layer biocompatible graphene nanosheets. Royal Society Open Science, 2021, 8, 200911.	2.4	2
11	Unlocking large compressive strains in thin active elastocaloric layers. Applied Thermal Engineering, 2021, 190, 116850.	6.0	13
12	A New Complex Borohydride LiAl(BH4)2Cl2. Inorganics, 2021, 9, 35.	2.7	0
13	Controlling magnetostructural transition and magnetocaloric effect in multi-component transition-metal-based materials. Journal of Applied Physics, 2021, 129, 193901.	2.5	14
14	Extraordinarily strong magneto-responsiveness in phase-separated LaFe2Si. Acta Materialia, 2021, 215, 117083.	7.9	2
15	Magnetoelastic transition and magnetocaloric effect in induction melted Fe100â^'xRhx bulk alloys with xÂ=Â50, 51. Journal of Alloys and Compounds, 2021, 871, 159586.	5.5	14
16	Toward efficient elastocaloric systems: Predicting material thermal properties with high fidelity. Acta Materialia, 2021, 217, 117162.	7.9	3
17	Incommensurate transition-metal dichalcogenides via mechanochemical reshuffling of binary precursors. Nanoscale Advances, 2021, 3, 4065-4071.	4.6	4
18	Crystal and Magnetic Structures of the Ternary Ho2Ni0.8Si1.2 and Ho2Ni0.8Ge1.2 Compounds: An Example of Intermetallics Crystallizing with the Zr2Ni1â€“xP Prototype. Inorganic Chemistry, 2021, 60, 16397-16408.	4.0	0

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19	The effect of cooling rate on magnetothermal properties of Fe49Rh51. Journal of Magnetism and Magnetic Materials, 2020, 498, 166130.	2.3	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(H₂O)₄; Ln = Sm, Eu, Tb. New Journal of Chemistry, 2020, 44, 1054-1062.	2.8	17
21	Low-Temperature Crystal Structure and Mean-Field Modeling of ErxDy1â^'xAl2 Intermetallics. Metals, 2020, 10, 1662.	2.3	3
22	Free-energy analysis of the nonhysteretic first-order phase transition of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2020, 102, .	3.2	10
23	First-order magnetic phase transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">P</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>In</mml:mi></mml:mrow></mml:math> with negligible thermomagnetic hysteresis. Physical Review B, 2020, 101, .	3.2	28
24	Unprecedented generation of 3D heterostructures by mechanochemical disassembly and re-ordering of incommensurate metal chalcogenides. Nature Communications, 2020, 11, 3005.	12.8	7
25	Magnetic structure of selected Gd intermetallic alloys from first principles. Physical Review B, 2020, 101, .	3.2	5
26	Differential effect of magnetic alignment on additive manufacturing of magnetocaloric particles. AIP Advances, 2020, 10, .	1.3	9
27	Magnetic and transport behaviors of non-centrosymmetric Nd7Ni2Pd. AIP Advances, 2020, 10, 015103.	1.3	2
28	Low-force compressive and tensile actuation for elastocaloric heat pumps. Applied Materials Today, 2020, 19, 100557.	4.3	21
29	Compact and efficient elastocaloric heat pumpsâ€"Is there a path forward?. Journal of Applied Physics, 2020, 127, .	2.5	25
30	Crystal structure and physical properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi><mml:mn>2</mml:mn></mml:m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mrow><mml:mn>2</mml:mn></mm allo. Physical Review Materials, 2020, 4, .	2.4	3
31	Magnetocaloric Effect of Micro- and Nanoparticles of Gd5Si4. Jom, 2019, 71, 3159-3163.	1.9	11
32	Designed materials with the giant magnetocaloric effect near room temperature. Acta Materialia, 2019, 180, 341-348.	7.9	73
33	Giant enhancement of the magnetocaloric response in Niâ€"Coâ€"Mnâ€"Ti by rapid solidification. Acta Materialia, 2019, 173, 225-230.	7.9	76
34	Stability of magnetocaloric La(FexCoySi1-x-y)13 in water and air. AIP Advances, 2019, 9, 035239.	1.3	1
35	Magnetostructural behavior in the non-centrosymmetric compound Nd₇Pd₃. Journal of Physics Condensed Matter, 2019, 31, 265801.	1.8	4
36	Gd5Si4-PVDF nanocomposite films and their potential for triboelectric energy harvesting applications. AIP Advances, 2019, 9, .	1.3	7

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37	Antiferromagnetism of Î²-Ce under hydrostatic pressure. Solid State Communications, 2019, 294, 36-38.	1.9	0
38	Enhancement of microwave absorption bandwidth of polymer blend using ferromagnetic gadolinium silicide nanoparticles. Materials Letters, 2019, 252, 178-181.	2.6	12
39	Mechanochemical reactions and hydrogen storage capacities in MBH4â€“SiS2 systems (M Li or Na). International Journal of Hydrogen Energy, 2019, 44, 7381-7391.	7.1	13
40	Managing hysteresis of Gd5Si2Ge2 by magnetic field cycling. Journal of Applied Physics, 2019, 126, 243902.	2.5	11
41	The first-order magnetoelastic transition in Eu2In: A 151Eu MÃ¶ssbauer study. AIP Advances, 2019, 9, 125137.	1.3	5
42	Inkjet Printing of Magnetic Particles Toward Anisotropic Magnetic Properties. Scientific Reports, 2019, 9, 16261.	3.3	15
43	Gadolinium silicide (Gd₅Si₄) nanoparticles for tuneable broad band microwave absorption. Materials Research Express, 2019, 6, 055053.	1.6	12
44	Anomalous effects of Sc substitution and processing on magnetism and structure of (Gd1â^'xScx)5Ge4. Journal of Magnetism and Magnetic Materials, 2019, 474, 482-492.	2.3	3
45	Magnetic and magnetocaloric properties of DyCo2Cx alloys. Journal of Alloys and Compounds, 2019, 777, 152-156.	5.5	11
46	Anomalous specific heat and magnetic properties of TmxDy1-xAl2 (0Ââ‰Âx â‰ 1). Journal of Alloys and Compounds, 2019, 774, 321-330.	5.5	6
47	From <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">I</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 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="n	2.4	2
48	Caloric effects in ferroic materials. MRS Bulletin, 2018, 43, 264-268.	3.5	57
49	Material-based figure of merit for caloric materials. Journal of Applied Physics, 2018, 123, .	2.5	244
50	Mechanochemistry of the LiBH₄â€“AlCl₃ System: Structural Characterization of the Products by Solid-State NMR. Journal of Physical Chemistry C, 2018, 122, 1955-1962.	3.1	7
51	Magnetostructural phase transitions and magnetocaloric effect in (Gd5-xScx)Si1.8Ge2.2. Acta Materialia, 2018, 145, 369-376.	7.9	34
52	Investigating phase transition temperatures of size separated gadolinium silicide magnetic nanoparticles. AIP Advances, 2018, 8, 056428.	1.3	15
53	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
54	High-throughput search for caloric materials: the CaloriCool approach. Journal Physics D: Applied Physics, 2018, 51, 024002.	2.8	46

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55	Controlling magnetism via transition metal exchange in the series of intermetallics Eu(T1,T2)5In (T =) Tj ETQq1 1 0.784314 rgBT /Ove	5.5	1
56	Multi-principal element transition metal dichalcogenides via reactive fusion of 3D-heterostructures. Chemical Communications, 2018, 54, 12574-12577.	4.1	7
57	Manipulating the stability of crystallographic and magnetic sub-lattices: A first-order magnetoelastic transformation in transition metal based Laves phase. Acta Materialia, 2018, 154, 365-374.	7.9	29
58	Non-hysteretic first-order phase transition with large latent heat and giant low-field magnetocaloric effect. Nature Communications, 2018, 9, 2925.	12.8	102
59	Anisotropy induced anomalies in Dy_{1â^'x}Tb_xAl₂. Journal of Materials Chemistry C, 2017, 5, 896-901.	5.5	7
60	Enhancement of ?-phase in PVDF films embedded with ferromagnetic Gd5Si4 nanoparticles for piezoelectric energy harvesting. AIP Advances, 2017, 7, .	1.3	42
61	Magnetocaloric Behavior in Ternary Europium Indides EuT₅In: Probing the Design Capability of First-Principles-Based Methods on the Multifaceted Magnetic Materials. Chemistry of Materials, 2017, 29, 2599-2614.	6.7	29
62	EuNi₅InH_{1.5â^'x} (x = 0â€“1.5): hydrogen induced structural and magnetic transitions. Journal of Materials Chemistry C, 2017, 5, 2994-3006.	5.5	10
63	Enhancing Magnetic Functionality with Scandium: Breaking Stereotypes in the Design of Rare Earth Materials. Chemistry of Materials, 2017, 29, 3962-3970.	6.7	16
64	R₃Au₉Pn (R = Y, Gdâ€“Tm; Pn = Sb, Bi): A Link between Cu₁₀Sn₃ and Gd₁₄Ag₅₁. Inorganic Chemistry, 2017, 56, 7247-7256.	4.0	10
65	Breaking the paradigm: record quindecim charged magnetic ionic liquids. Materials Horizons, 2017, 4, 217-221.	12.2	20
66	Open-Framework Manganese(II) and Cobalt(II) Borophosphates with Helical Chains: Structures, Magnetic, and Luminescent Properties. Inorganic Chemistry, 2017, 56, 11104-11112.	4.0	17
67	Ferromagnetic Gd5Si4 Nanoparticles as T2 Contrast Agents for Magnetic Resonance Imaging. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	19
68	Role of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>f</mml:mi></mml:mrow></mml:m in crystallographic and magnetic complexity. Physical Review B, 2017, 96, .	3.2	8
69	Crystal, magnetic, calorimetric and electronic structure investigation of GdScGe1â€“xSbxcompounds. Journal of Physics Condensed Matter, 2017, 29, 485802.	1.8	10
70	A benign synthesis of alane by the composition-controlled mechanochemical reaction of sodium hydride and aluminum chloride. Journal of Materials Science, 2017, 52, 11900-11910.	3.7	3
71	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
72	Synthesis, Structure, and Hydrogen-Sorption Properties of (Ti,Zr)4Ni2N x Subnitrides. Materials Science, 2017, 53, 306-315.	0.9	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.	3.4	37
74	Tunable magnetism and structural transformations in mixed light- and heavy-lanthanide dialuminides. Physical Review B, 2016, 94, .	3.2	5
75	Balancing structural distortions via competing 4f and itinerant interactions: a case of polymorphism in magnetocaloric HoCo₂. Journal of Materials Chemistry C, 2016, 4, 4521-4531.	5.5	29
76	Towards Direct Synthesis of Alane: A Predicted Defectâ€Mediated Pathway Confirmed Experimentally. ChemSusChem, 2016, 9, 2358-2364.	6.8	5
77	Gd₃Ni₂ and Gd₃Co_xNi_{2â^'x}: magnetism and unexpected Co/Ni crystallographic ordering. Journal of Materials Chemistry C, 2016, 4, 6078-6089.	5.5	22
78	The effect of boron doping on crystal structure, magnetic properties and magnetocaloric effect of DyCo2. Journal of Magnetism and Magnetic Materials, 2016, 405, 122-128.	2.3	13
79	Magnetic properties and magnetic entropy changes of MRE2Co7 compounds. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	5.1	4
80	Room temperature ferromagnetic nanoparticles of Gd<inf>5</inf>Si<inf>4</inf>. , 2015, , .		0
81	Î³â€Brasses with Spontaneous Magnetization: Atom Site Preferences and Magnetism in the Feâ€Zn and Feâ€Pdâ€Zn Phase Spaces. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 270-278.	1.2	19
82	Complex Magnetism of Lanthanide Intermetallics and the Role of their Valence Electrons:AbÂInitioTheory and Experiment. Physical Review Letters, 2015, 115, 207201.	7.8	24
83	Magnetostructural phase transformations in Tb1â^'xMn2. Journal of Materials Chemistry C, 2015, 3, 2422-2430.	5.5	5
84	Investigation of Room Temperature Ferromagnetic Nanoparticles of Gd5Si4. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	26
85	Cation-Poor Complex Metallic Alloys in Ba(Eu)â€“Auâ€“Al(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
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.	1.8	15
87	Low temperature crystal structure and magnetic properties of RAl2. Journal of Applied Physics, 2014, 115, 17E109.	2.5	9
88	In situ X-ray powder diffraction study of Ho5Ge4. Journal of Applied Physics, 2014, 115, 17E105.	2.5	1
89	Growth and characterization of Pt-protected Gd5Si4 thin films. Journal of Applied Physics, 2014, 115, 17C113.	2.5	11
90	On the magnetic order of Gd5Ge3. Journal of Applied Physics, 2014, 115, 17A901.	2.5	3

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91	Formation of Co Moment in the Paramagnetic Phase of RCo₂. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
92	R5T4 Compounds. Fundamental Theories of Physics, 2014, 44, 283-449.	0.3	9
93	Spin-glass behavior in a giant unit cell compound Tb₁₁₇Fe₅₂Ge_{113.8(1)}. Journal of Physics Condensed Matter, 2014, 26, 416003.	1.8	5
94	Unexpected magnetism, Griffiths phase, and exchange bias in the mixed lanthanide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Pr</mml:mtext><mml:mrow><mml:mn>0.6</mml:mn <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Er</mml:mtext><mml:mrow><mml:mn>0.4</mml:mn <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Al</mml:mtext><mml:mn>2</mml:mn></mml:ms.	3.2	23
95	The nature of the first order isostructural transition in GdRhSn. Journal of Alloys and Compounds, 2014, 613, 280-287.	5.5	20
96	Dry mechanochemical synthesis of alane from LiH and AlCl₃. Faraday Discussions, 2014, 170, 137-153.	3.2	20
97	Magnetocaloric effect of Pr2Fe17â^'x Mn x alloys. Rare Metals, 2014, 33, 552-555.	7.1	14
98	Solvent-free mechanochemical synthesis of alane, AlH₃: effect of pressure on the reaction pathway. Green Chemistry, 2014, 16, 4378-4388.	9.0	27
99	Electronic structure, magnetic properties, and magnetostructural transformations in rare earth dialuminides. Journal of Applied Physics, 2014, 115, .	2.5	8
100	Electronic contribution to the enhancement of the ferromagnetic ordering temperature by Si substitution in Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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109	Anomalous Schottky Specific Heat and Structural Distortion in Ferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>PrAl</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 110, 186405.	7.8	38
110	Magnetic properties of Ho1âˆ'xErxAl2 alloys. Journal of Applied Physics, 2013, 113, .	2.5	3
111	Unusual magnetic frustration in Lu-doped Gd5Ge4. Journal of Applied Physics, 2013, 113, .	2.5	9
112	Crystal structure of Tb5Ni2In4 and Y5Ni2In4, and magnetic properties of Dy5Ni2In4. Journal of Applied Physics, 2012, 111, .	2.5	11
113	Anisotropic magnetic deflagration in single crystals of Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	3.2	7
114	Low-temperature crystal structure and magnetic properties of Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	3.2	12
115	Magnetism and magnetocaloric ordered crystal Physical Review B, 2012, 85, . xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	3.2	10
116	Magnetic and structural properties of single-crystalline Er<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 85, .	3.2	9
117	On the nature of the magnetocaloric effect of the first-order magnetostructural transition. Scripta Materialia, 2012, 67, 572-577.	5.2	167
118	Solid-State NMR Study of Li-Assisted Dehydrogenation of Ammonia Borane. Inorganic Chemistry, 2012, 51, 4108-4115.	4.0	14
119	Mechanochemical transformations in NaNH2-MgH2 mixtures. Journal of Alloys and Compounds, 2012, 513, 324-327.	5.5	18
120	New magnetic configuration in paramagnetic phase of HoCo2. Journal of Applied Physics, 2012, 111, 07E315.	2.5	15
121	Barocaloric effect in the magnetocaloric prototype Gd5Si2Ge2. Applied Physics Letters, 2012, 101, 071906.	3.3	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 Yb5Ge4â€‰â^'â€‰x (Sb, Ga) x : (xâ€‰â‰â€‰1). Hyperfine Interactions, 2012, 208, 59-63.	0.5	9
124	Asymmetry of the latent heat signature in b-axis oriented single crystal Gd₅Si₂Ge₂. Materials Research Society Symposia Proceedings, 2011, 1310, 1.	0.1	1
125	Crystal structure and magnetic properties of R5Sn4 alloys, where R is Tb, Dy, Ho, and Er. Journal of Applied Physics, 2011, 109, 07A917.	2.5	7
126	Effect of Ca on the microstructure and magnetocaloric effects in the La1âˆ'xCaxFe11.5Si1.5 compounds. Journal of Alloys and Compounds, 2011, 509, 3746-3750.	5.5	15

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127	First order transition in Dy5Si3Ge: Transport and thermal properties, and first principles calculations. Journal of Applied Physics, 2011, 109, 07A923.	2.5	4
128	Investigation of the thermochemical transformations in the LiAlH4â€“LiNH2 system. International Journal of Hydrogen Energy, 2011, 36, 10626-10634.	7.1	16
129	Extraordinary Responsive Intermetallic Compounds: the R₅T₄ Family (R = Rare Earth, T = Group 13â€“15 Element). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 1948-1956.	1.2	19
130	The role of demagnetization factor in determining the â€˜trueâ€™ value of the Curie temperature. Journal of Magnetism and Magnetic Materials, 2011, 323, 2453-2457.	2.3	28
131	Magnetic and thermal properties of Er<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>75</mml:mn></mml:msub></mml:math>Dy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>25</mml:mn></mml:msub></mml:math>single crystals. Physical Review B, 2011, 84, .	3.2	1
132	Spin reorientation transitions in Ho1-xDyxAl2 alloys. Journal of Applied Physics, 2011, 110, .	2.5	15
133	Electronic structure, magnetic properties, and magnetostructural transition in Tb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow />	3.2	12
134	Effect of Si doping and applied pressure upon magnetostructural properties of Tb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow />		

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145	Magnetic properties of Er1â^'xDyxAl2 (0â‰¤xâ‰¤1) compounds in low applied fields. Journal of Applied Physics, 2010, 107, 09A723.	2.5	4
146	Influence of Y substitutions on the magnetism of Gd5Ge4. Journal of Applied Physics, 2010, 107, 09A908.	2.5	9
147	Magnetostructural transition in Ce(Fe0.975Ga0.025)2 compound. Journal of Applied Physics, 2010, 107, 09E133.	2.5	3
148	Magnetic and magnetothermodynamic properties of Ho5Si4. Journal of Applied Physics, 2010, 107, .	2.5	15
149	Consequences of the magnetocaloric effect on magnetometry measurements. Journal of Applied Physics, 2010, 108, .	2.5	13
150	Mechanically induced reactions in organic solids: liquid eutectics or solid-state processes?. New Journal of Chemistry, 2010, 34, 25-28.	2.8	60
151	Mechanochemically driven nonequilibrium processes in MNH2â€“CaH2 systems (M=Li or Na). Journal of Alloys and Compounds, 2010, 506, 224-230.	5.5	5
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