

# Pavel Svoboda

## List of Publications by Year in descending order

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141  
papers

1,738  
citations

331259

21  
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360668

35  
g-index

145  
all docs

145  
docs citations

145  
times ranked

1231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Neumann's Kopp rule for the estimation of heat capacity of mixed oxides. <i>Thermochimica Acta</i> , 2010, 497, 7-13.	1.2	304
2	Magnetic ordering in $U_2Pd_2In$ and $U_2Pd_2Sn$ . <i>Physical Review B</i> , 1994, 50, 6792-6801.	1.1	67
3	Importance of anharmonic terms in the analysis of the specific heat of $UNi_2Si_2$ . <i>Physical Review B</i> , 2001, 63, .	1.1	54
4	Heavy fermion behavior of $U_2T_2X$ compounds. <i>Journal of Applied Physics</i> , 1994, 76, 6214-6216.	1.1	50
5	Magnetism in $U_2T_2X$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 140-144, 1367-1368.	1.0	48
6	Thermodynamics of the $Al_3Ni$ phase and revision of the $Al-Ni$ system. <i>Thermochimica Acta</i> , 2011, 512, 189-195.	1.2	43
7	Magnetism in $RENiAl$ compounds. <i>Journal of Applied Physics</i> , 1993, 73, 5677-5679.	1.1	37
8	Neutron diffraction study of magnetic structures in $TbNiAl$ . <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 166, 133-140.	1.0	37
9	Specific heat study of selected $RNi_5$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 595-596.	1.0	31
10	Magnetic properties of $RCuAl$ and $RNiAl$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 140-144, 1139-1140.	1.0	29
11	The magnetic phases of $NdCu_2$ . <i>Zeitschrift für Physik B-Condensed Matter</i> , 1996, 101, 499-510.	1.1	29
12	Heat capacity, enthalpy and entropy of calcium niobates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 397-402.	2.0	28
13	Heat capacity, enthalpy and entropy of strontium niobates $Sr_2Nb_{10}O_{27}$ and $Sr_5Nb_4O_{15}$ . <i>Journal of Alloys and Compounds</i> , 2009, 481, 35-39.	2.8	26
14	Magnetic phase transitions in $NdCu_2$ . <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 104-107, 1329-1330.	1.0	25
15	High-field magnetization of $U_2T_2X$ compounds ( $T = Co, Ni, Rh, Pd, Ir, Pt$ and $X = In, Sn$ ). <i>Physica B: Condensed Matter</i> , 1994, 201, 247-250.	1.3	25
16	Structure, non-stoichiometry and thermodynamic properties of $Bi_{1.85}Sr_2Co_{1.85}O_{7.7}$ ceramics. <i>Thermochimica Acta</i> , 2014, 582, 40-45.	1.2	25
17	Vapour phase approach for iron oxide nanoparticle synthesis from solid precursors. <i>Journal of Solid State Chemistry</i> , 2013, 200, 150-156.	1.4	24
18	Anisotropic magnetic properties and specific-heat study of $aTbFe_2Si_2$ single crystal. <i>Physical Review B</i> , 2004, 70, .	1.1	23

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19	Anisotropic magnetic and transport properties of UNiGe. IEEE Transactions on Magnetics, 1994, 30, 1214-1216.	1.2	22
20	Single Crystal Growth and Electrical Properties of CeRh <sub>2</sub> and CeIr <sub>2</sub> . Journal of the Physical Society of Japan, 1994, 63, 1502-1507.	0.7	22
21	Structural change in DyCu <sub>2</sub> single crystal induced by magnetic field. Europhysics Letters, 1999, 48, 410-414.	0.7	22
22	The analysis of the specific heat of RFe <sub>2</sub> Si <sub>2</sub> compounds. Physica B: Condensed Matter, 2003, 328, 139-141.	1.3	21
23	Liquid-Phase Synthesis of Nickel Nanoparticles stabilized by PVP and study of their structural and magnetic properties. Advanced Materials Letters, 2011, 2, 409-414.	0.3	21
24	Magnetic phases in unige. Journal of Alloys and Compounds, 1994, 213-214, 536-539.	2.8	20
25	Magnetic phase diagram of UNiGa. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1379-1380.	1.0	20
26	Heat capacity, enthalpy and entropy of strontium niobate Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> and calcium niobate Ca <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> . Thermochimica Acta, 2008, 475, 33-38.	1.2	20
27	Magnetic and Electrical Properties of UPd <sub>3</sub> . Journal of the Physical Society of Japan, 1994, 63, 1518-1529.	0.7	19
28	Magnetic anisotropy of UCoGa. Journal of Applied Physics, 1993, 73, 6554-6556.	1.1	18
29	Effect of hydrophobic coating on the magnetic anisotropy and radiofrequency heating of <sup>57</sup> Fe-Fe <sub>2</sub> O <sub>3</sub> nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 339, 106-113.	1.0	18
30	Heat capacity and phonon spectra of A <sub>3</sub> AlN. Journal of Thermal Analysis and Calorimetry, 2009, 95, 403-407.	2.0	16
31	Heat capacity, enthalpy and entropy of Sr <sub>14</sub> Co <sub>11</sub> O <sub>33</sub> and Sr <sub>6</sub> Co <sub>5</sub> O <sub>15</sub> . Thermochimica Acta, 2014, 575, 167-172.	1.2	16
32	Structural stability of LaCu <sub>2</sub> and YCu <sub>2</sub> studied by high-pressure x-ray diffraction and ab initio total energy calculations. Journal of Physics Condensed Matter, 2000, 12, 3219-3228.	0.7	14
33	The loss of ferromagnetism in (U <sub>v</sub> )Ga <sub>2</sub> (v = Y, Gd). Journal of the Less Common Metals, 1986, 121, 163-167.	0.9	13
34	Magnetic phase transitions in TmCu <sub>2</sub> . Journal of Physics F: Metal Physics, 1986, 16, L201-L204.	1.6	13
35	Magnetic hysteresis phenomena in high T <sub>c</sub> superconductors. European Physical Journal D, 1987, 37, 660-664.	0.4	13
36	Metamagnetic transitions and giant magnetoresistance in UNiGe. Physica B: Condensed Matter, 1994, 201, 251-254.	1.3	13

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37	Heat capacity, enthalpy and entropy of strontium bismuth niobate and strontium bismuth tantalate. <i>Thermochimica Acta</i> , 2006, 450, 105-109.	1.2	13
38	Thermodynamic properties of strontium metaniobate SrNb <sub>2</sub> O <sub>6</sub> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 985-990.	2.0	13
39	Magnetism in URhSi. <i>Journal of Applied Physics</i> , 1996, 79, 5221.	1.1	12
40	Magnetism in DyFe <sub>2</sub> Si <sub>2</sub> a single-crystal study. <i>Physica B: Condensed Matter</i> , 2005, 367, 19-28.	1.3	12
41	Oxygen non-stoichiometry and thermodynamic properties of Bi <sub>2</sub> Sr <sub>2</sub> CoO <sub>6+<math>\delta</math></sub> ceramics. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1219-1225.	2.8	12
42	One-pot synthesis of maghemite nanocrystals across aqueous and organic solvents for magnetic hyperthermia. <i>Applied Materials Today</i> , 2018, 12, 250-259.	2.3	12
43	Magnetoelastic interactions in the orthorhombic RECu <sub>2</sub> compounds (RE identical to Tb, Dy, Ho, Er, Tm). <i>Journal of Physics Condensed Matter</i> , 1990, 2, 7569-7573.	0.7	11
44	Modeling magnetostriction in RCu <sub>2</sub> compounds using McPhase. <i>Journal of Applied Physics</i> , 2002, 91, 8885.	1.1	11
45	Heat capacity, enthalpy and entropy of SrBi <sub>2</sub> O <sub>4</sub> and Sr <sub>2</sub> Bi <sub>2</sub> O <sub>5</sub> . <i>Thermochimica Acta</i> , 2012, 531, 60-65.	1.2	11
46	On crystal-field spectroscopy based on specific heat and thermal expansion measurements: application to the TmCu <sub>2</sub> intermetallic compound. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 10153-10163.	0.7	10
47	Magnetism and crystal field in NdCu <sub>5</sub> . <i>Physica B: Condensed Matter</i> , 1991, 168, 251-256.	1.3	10
48	Anomalous magnetic exchange interactions in SmCu <sub>2</sub> . <i>Physical Review B</i> , 2001, 64, .	1.1	10
49	Magnetic phase transitions in CePtSn. <i>Journal of Applied Physics</i> , 2001, 89, 7189-7191.	1.1	10

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55	Electronic structure of URhSi. Solid State Communications, 1997, 104, 597-601.	0.9	9
56	Heat capacity and heat content of BiNb5O14. Journal of Thermal Analysis and Calorimetry, 2007, 87, 553-556.	2.0	9
57	Structure, oxygen non-stoichiometry and thermal properties of (Bi0.4Sr0.6)Sr2CoO5. Thermochemical Acta, 2015, 600, 89-94.	1.2	9
58	Magnetic Behaviour of TmCu2 below TN. Physica Status Solidi A, 1989, 111, 285-288.	1.7	8
59	Crystal growth and basic thermodynamic properties of NdFe2Si2. Physica B: Condensed Matter, 2003, 328, 173-178.	1.3	8
60	Spatial and temporal community structure of desmids on a small spatial scale. Hydrobiologia, 2014, 722, 291-303.	1.0	8
61	Impact of hydrogen absorption on crystal structure and magnetic properties of RE2T2X compounds. Journal of Alloys and Compounds, 2015, 645, S76-S79.	2.8	8
62	CRYSTAL-FIELD EFFECTS IN REBa2Cu3O7. Journal De Physique Colloque, 1988, 49, C8-2177-C8-2178.	0.2	8
63	The specific heat of single crystal NdCu2. Physica B: Condensed Matter, 1995, 206-207, 395-397.	1.3	7
64	Neutron diffraction study of magnetic ordering in NdNiAl and PrNiAl. Journal of Magnetism and Magnetic Materials, 1996, 164, 183-186.	1.0	7
65	Magnetic structure of U2Pt2Sn. Journal of Magnetism and Magnetic Materials, 1999, 202, 451-457.	1.0	7
66	Incommensurate antiferromagnetic phase in UNiGe. Journal of Applied Physics, 1994, 76, 6217-6219.	1.1	6
67	Giant magneto-striction in TbCu2 and DyCu2 crystals. Physica B: Condensed Matter, 2000, 284-288, 1331-1332.	1.3	6
68	Magnetic field induced irreversibility in UNiAl. Journal of Applied Physics, 2001, 89, 7639-7641.	1.1	6
69	Neutron-diffraction study of CePtSn. Applied Physics A: Materials Science and Processing, 2002, 74, s731-s733.	1.1	6
70	Specific-heat and Magnetization Studies in Ce(Ni1-xCu1-x)5 Heavy-fermion Compounds. European Physical Journal D, 2004, 54, 311-314.	0.4	6
71	Magnetism in CeAu2Si2 (single crystal). Journal of Magnetism and Magnetic Materials, 2004, 272-276, E405-E407.	1.0	6
72	Interplay between mesoscopic phase separation and bulk magnetism in the layered NaxCoO2. Physical Review B, 2005, 72, .	1.1	6

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73	Heat capacity, enthalpy and entropy of ternary bismuth tantalum oxides. Journal of Solid State Chemistry, 2011, 184, 241-245.	1.4	6
74	The Influence of Crystal Field Splitting on the Paramagnetic Magnetisation of $\text{TmCu}_2$ . Physica Status Solidi (B): Basic Research, 1989, 153, K69.	0.7	5
75	Muon spin rotation spectroscopy on a $\text{UNiGa}$ single crystal. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1381-1382.	1.0	5
76	Electronic properties of $\text{U}_2\text{Pt}_2\text{Sn}$ . Journal of Applied Physics, 1996, 79, 6361.	1.1	5
77	Magnetic phase diagram of $\text{UNi}_2\text{Si}_2$ in high fields. Physica B: Condensed Matter, 2000, 276-278, 686-687.	1.3	5
78	Unusual phonon softening in the Kondo lattice $\text{CeCu}_2$ . Physica B: Condensed Matter, 2002, 312-313, 181-183.	1.3	5
79	MAGNETISM AND CRYSTAL FIELD IN $\text{TmCu}_2$ . Journal De Physique Colloque, 1988, 49, C8-415-C8-416.	0.2	5
80	Magnetic and Crystallographic Properties of $\text{Gd}(\text{Cu}_{1-x}\text{Co}_x)_2$ . Physica Status Solidi A, 1986, 98, 221-227.	1.7	4
81	Magnetic properties of $\text{REBa}_2\text{Cu}_3\text{O}_7$ (RE = Y, Nd, Sm, Eu, Gd, Dy, Ho). Physica C: Superconductivity and Its Applications, 1988, 153-155, 186-187.	0.6	4
82	Magnetic and Electrical Properties of $\text{NdCu}_2$ . Journal of the Physical Society of Japan, 1995, 64, 4889-4895.	0.7	4
83	High field magnetization of a $\text{NdCu}_2$ single crystal. Physica B: Condensed Matter, 1995, 211, 172-174.	1.3	4
84	Commensurate and incommensurate magnetic order of $\text{UPdSi}$ . Physica B: Condensed Matter, 1997, 241-243, 687-689.	1.3	4
85	High-field transition in $\text{TbCu}_2$ . Physica B: Condensed Matter, 1998, 246-247, 479-482.	1.3	4
86	Reduced magnetic moments in $\text{UNiSi}$ . Journal of Alloys and Compounds, 1998, 269, 43-49.	2.8	4
87	Specific Heat and Phase Diagram of $\text{NdCu}_2$ in Magnetic Field. Journal of the Physical Society of Japan, 1998, 67, 594-598.	0.7	4
88	On the crystal structure and magnetism of $\text{CePtSn}$ at low temperatures. Journal of Alloys and Compounds, 2002, 334, 50-52.	2.8	4
89	Magnetic phase diagram and critical scattering of $\text{UNi}_2\text{Si}_2$ . Physica B: Condensed Matter, 2002, 322, 248-251.	1.3	4
90	Thermal and magnetic properties of $\text{Ce}_5\text{Ni}_2\text{Si}_3$ . Physica B: Condensed Matter, 2006, 378-380, 851-853.	1.3	4

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91	Influence of on the magnetic state of. Journal of Magnetism and Magnetic Materials, 2007, 316, e699-e702.	1.0	4
92	Magnetic phase transitions in $Tm(Cu_{1-x}Ni_x)_2$ . Journal of Magnetism and Magnetic Materials, 1990, 83, 297-299.	1.0	3
93	Importance of higher order terms in CF Hamiltonian for interpretation of magnetization curves in $Tb(Cu_{0.7}Ni_{0.3})_2$ . Journal of Magnetism and Magnetic Materials, 1990, 88, 383-386.	1.0	3
94	Single crystal growth and electrical properties of $CeRh_2$ and $CeIr_2$ . Physica B: Condensed Matter, 1994, 199-200, 570-571.	1.3	3
95	Observation of higher-order harmonics in AF2 phase of $NdCu_2$ . Physica B: Condensed Matter, 1997, 234-236, 642-643.	1.3	3
96	Crystal field-phonon coupling in the Kondo lattice $CeCu_2$ . Applied Physics A: Materials Science and Processing, 2002, 74, s571-s573.	1.1	3
97	Magnetic ordering and specific heat analysis of $TmPtSn$ . Physica B: Condensed Matter, 2003, 328, 142-144.	1.3	3
98	Thermodynamic properties of $SmCu_2$ . Physica B: Condensed Matter, 2003, 329-333, 504-505.	1.3	3
99	Superconductivity in $LaCu_6$ and possible applications. Physica C: Superconductivity and Its Applications, 2003, 388-389, 565-566. Specific heat analysis of heavy REFe	0.6	3
100	Specific heat analysis of heavy REFe xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-bib/dtd"	1.0	3
101	Specific heat of intermetallic compounds. Physica B: Condensed Matter, 2006, 378-380, 1107-1108.	1.3	3
102	Low-temperature specific heat of selected ceramics. International Journal of Materials Research, 2009, 100, 1246-1248.	0.1	3
103	Effect of pressure on magnetic properties of the fluctuating-valence system $Ce(Ni_{1-x}Cu_x)_5$ . Low Temperature Physics, 2011, 37, 847-851.	0.2	3
104	Magnetic Properties of $Tb_{2-x}Pd_{2+x}In$ ; Single Crystal Study. Solid State Phenomena, 2012, 194, 58-61.	0.3	3
105	Hydrogen absorption in $RE_2T_2In$ compounds. Journal of Alloys and Compounds, 2013, 580, S105-S108.	2.8	3
106	New type of magnetic structure in the $R_{2-x}T_{2+x}$ group: $Tb_{2-x}Pd_{2+x}In$ . Journal of Physics Condensed Matter, 2020, 32, 345801.	0.7	3
107	Magnetic structure of $DyCu_2$ in the virgin and in the converted state. Physica B: Condensed Matter, 2000, 276-278, 600-601.	1.3	2
108	Magnetic Phase Transitions in $CePtSn$ . European Physical Journal D, 2002, 52, 259-262.	0.4	2

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109	Antiferromagnetic Ordering in TmCu <sub>2</sub> . European Physical Journal D, 2002, 52, 267-270.	0.4	2
110	Antiferromagnetic correlations and magnetocaloric phenomena in UNi <sub>2</sub> Si <sub>2</sub> . Physica B: Condensed Matter, 2003, 339, 177-181.	1.3	2
111	Magnetic correlations reflected by anomalies in transport and elastic properties of uranium intermetallics. Physica B: Condensed Matter, 2003, 328, 95-99.	1.3	2
112	Antiferromagnetism and magnetoleasticity of UNiAl. Physica B: Condensed Matter, 2003, 329-333, 480-481.	1.3	2
113	Magnetic and transport properties of $\langle \text{mml:math altimg="si8.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-ce/dtd" \rangle$	1.0	2
114	Magnetic and transport properties of R(Mn, In) <sub>2</sub> (R = rare-earth metals) with AlB <sub>2</sub> -structure type. Physica B: Condensed Matter, 2007, 393, 321-327.	1.3	2
115	MAGNETISM IN UPtIn. International Journal of Modern Physics B, 1993, 07, 842-845.	1.0	1
116	Anisotropic magnetic and transport properties of NdCu <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 1995, 150, 151-156.	1.0	1
117	Crystallographic and magnetic structures of U(Ni <sub>1-x</sub> Tx)Al compounds. Physica B: Condensed Matter, 2000, 276-278, 714-715.	1.3	1
118	On some magnetic phase transitions in CePtSn. Journal of Alloys and Compounds, 2001, 323-324, 380-383.	2.8	1
119	Crystal growth and magnetic properties of SmCu <sub>2</sub> . European Physical Journal D, 2002, 52, A233-A236.	0.4	1
120	Complex magnetic phase diagram of TmCu <sub>2</sub> . Applied Physics A: Materials Science and Processing, 2002, 74, s748-s750.	1.1	1
121	Evolution of magnetic structures in U(Ni <sub>1-x</sub> Pdx) <sub>2</sub> Si <sub>2</sub> system. Physica B: Condensed Matter, 2003, 329-333, 502-503.	1.3	1
122	Magnetic phases in UNi <sub>2</sub> Si <sub>2</sub> . Open Physics, 2004, 2, .	0.8	1
123	Magnetic phase transitions in NdCu <sub>2</sub> under pressure. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 470-472.	1.0	1
124	Magnetic properties of NdFe <sub>2</sub> Si <sub>2</sub> single-crystal. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 587-588.	1.0	1
125	Low-temperature specific heat and resistivity studies in the compounds. Physica B: Condensed Matter, 2005, 359-361, 281-283.	1.3	1
126	Sample holder for neutron scattering in high magnetic fields. Review of Scientific Instruments, 2005, 76, 113901.	0.6	1



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127	Ising-axis conversion in. Journal of Magnetism and Magnetic Materials, 2007, 310, 1767-1769.	1.0	1
128	Giant magnetostrain based on strong single ion anisotropy of rare earth materials. European Physical Journal: Special Topics, 2008, 158, 125-130.	1.2	1
129	Fermi surface properties of UPd3. Physica B: Condensed Matter, 1994, 199-200, 654-655.	1.3	0
130	Diffuse magnetic neutron scattering in NdCu2. Physica B: Condensed Matter, 1997, 234-236, 640-641.	1.3	0
131	Magnetic phase diagram of UNi2Si2 under magnetic field and high-pressure. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 585-587.	1.0	0
132	Field dependence of the incommensurate magnetic order in UNiGe. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 70-71.	1.0	0
133	Evolution of magnetic structures in the UNi 2 Si 2 -UPd 2 Si 2 system. Applied Physics A: Materials Science and Processing, 2002, 74, s746-s747.	1.1	0
134	Magnetic Properties of Selected RFe2Si2 Compounds. European Physical Journal D, 2004, 54, 283-286.	0.4	0
135	Adiabatic Demagnetization and Magnetocaloric Effect of TbAl2. European Physical Journal D, 2004, 54, 331-334.	0.4	0
136	Substitutional Disorder Effect on the Ising-axis Conversion in (Tb0.5Y0.5)Cu2. European Physical Journal D, 2004, 54, 335-338.	0.4	0
137	Thermodynamic Properties of Na0.65CoO2. European Physical Journal D, 2004, 54, 539-542.	0.4	0
138	Anomalous magnetic behavior in Sm(Fe1-xMn x)2Si2 system. Journal of Alloys and Compounds, 2004, 383, 140-143.	2.8	0
139	Magnetic properties of non-stoichiometric U1+xNi1+yAl compounds. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 171-174.	0.8	0
140	Neutron diffraction study of TbFe2Si2 single crystal. Journal of Magnetism and Magnetic Materials, 2007, 316, e481-e483.	1.0	0
141	Double phase transition and magnetic ordering in NdFe2Si2 single crystal. Journal of Magnetism and Magnetic Materials, 2007, 310, 1755-1757.	1.0	0