

Pavel Svoboda

List of Publications by Year in descending order

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141
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1,738
citations

331259

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35
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145
all docs

145
docs citations

145
times ranked

1231
citing authors

#	ARTICLE	IF	CITATIONS
1	New type of magnetic structure in the $R_{2}T_{2}X$ group: $Tb_{2}Pd_{2}In$. Journal of Physics Condensed Matter, 2020, 32, 345801.	0.7	3
2	One-pot synthesis of maghemite nanocrystals across aqueous and organic solvents for magnetic hyperthermia. Applied Materials Today, 2018, 12, 250-259.	2.3	12
3	Impact of hydrogen absorption on crystal structure and magnetic properties of $RE_{2}T_{2}X$ compounds. Journal of Alloys and Compounds, 2015, 645, S76-S79.	2.8	8
4	Structure, oxygen non-stoichiometry and thermal properties of $(Bi_{0.4}Sr_{0.6})Sr_{2}CoO_{5+\delta}$. Thermochemica Acta, 2015, 600, 89-94.	1.2	9
5	Oxygen non-stoichiometry and thermodynamic properties of $Bi_{2}Sr_{2}CoO_{6+\delta}$ ceramics. Journal of the European Ceramic Society, 2014, 34, 1219-1225.	2.8	12
6	Structure, non-stoichiometry and thermodynamic properties of $Bi_{1.85}Sr_{2}Co_{1.85}O_{7.7\delta}$ ceramics. Thermochemica Acta, 2014, 582, 40-45.	1.2	25
7	Spatial and temporal community structure of desmids on a small spatial scale. Hydrobiologia, 2014, 722, 291-303.	1.0	8
8	Heat capacity, enthalpy and entropy of $Sr_{14}Co_{11}O_{33}$ and $Sr_{6}Co_{5}O_{15}$. Thermochemica Acta, 2014, 575, 167-172.	1.2	16
9	Hydrogen absorption in $RE_{2}T_{2}In$ compounds. Journal of Alloys and Compounds, 2013, 580, S105-S108.	2.8	3
10	Vapour phase approach for iron oxide nanoparticle synthesis from solid precursors. Journal of Solid State Chemistry, 2013, 200, 150-156.	1.4	24
11	Effect of hydrophobic coating on the magnetic anisotropy and radiofrequency heating of $\gamma\text{-Fe}_{2}O_{3}$ nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 339, 106-113.	1.0	18
12	Magnetic Properties of $Tb_{2}Pd_{2}In$; Single Crystal Study. Solid State Phenomena, 2012, 194, 58-61.	0.3	3
13	Heat capacity, enthalpy and entropy of $SrBi_{2}O_{4}$ and $Sr_{2}Bi_{2}O_{5}$. Thermochemica Acta, 2012, 531, 60-65.	1.2	11
14	Heat capacity, enthalpy and entropy of ternary bismuth tantalum oxides. Journal of Solid State Chemistry, 2011, 184, 241-245.	1.4	6
15	Thermodynamics of the $Al_{3}Ni$ phase and revision of the $Al\text{-}Ni$ system. Thermochemica Acta, 2011, 512, 189-195.	1.2	43
16	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
17	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
18	Application of Neumann-Kopp rule for the estimation of heat capacity of mixed oxides. Thermochemica Acta, 2010, 497, 7-13.	1.2	304

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19	Heat capacity, enthalpy and entropy of calcium niobates. Journal of Thermal Analysis and Calorimetry, 2009, 95, 397-402.	2.0	28
20	Heat capacity and phonon spectra of A ₃ AlN. Journal of Thermal Analysis and Calorimetry, 2009, 95, 403-407.	2.0	16
21	Heat capacity, enthalpy and entropy of strontium niobates Sr ₂ Nb ₁₀ O ₂₇ and Sr ₅ Nb ₄ O ₁₅ . Journal of Alloys and Compounds, 2009, 481, 35-39.	2.8	26
22	Low-temperature specific heat of selected ceramics. International Journal of Materials Research, 2009, 100, 1246-1248.	0.1	3
23	Thermodynamic properties of strontium metaniobate SrNb ₂ O ₆ . Journal of Thermal Analysis and Calorimetry, 2008, 91, 985-990.	2.0	13
24	Heat capacity, enthalpy and entropy of strontium niobate Sr ₂ Nb ₂ O ₇ and calcium niobate Ca ₂ Nb ₂ O ₇ . Thermochimica Acta, 2008, 475, 33-38.	1.2	20
25	Giant magnetostrain based on strong single ion anisotropy of rare earth materials. European Physical Journal: Special Topics, 2008, 158, 125-130.	1.2	1
26	Magnetic and transport properties of R(Mn, In) ₂ (R = rare-earth metals) with AIB ₂ -structure type. Physica B: Condensed Matter, 2007, 393, 321-327.	1.3	2
27	Ising-axis conversion in. Journal of Magnetism and Magnetic Materials, 2007, 310, 1767-1769.	1.0	1
28	Neutron diffraction study of TbFe ₂ Si ₂ single crystal. Journal of Magnetism and Magnetic Materials, 2007, 316, e481-e483.	1.0	0
29	Influence of on the magnetic state of. Journal of Magnetism and Magnetic Materials, 2007, 316, e699-e702.	1.0	4
30	Heat capacity and heat content of BiNb ₅ O ₁₄ . Journal of Thermal Analysis and Calorimetry, 2007, 87, 553-556.	2.0	9
31	Double phase transition and magnetic ordering in NdFe ₂ Si ₂ single crystal. Journal of Magnetism and Magnetic Materials, 2007, 310, 1755-1757.	1.0	0
32	Magnetic properties of non-stoichiometric U _{1+x} Ni _{1+y} Al compounds. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 171-174.	0.8	0
33	Specific heat of intermetallic compounds. Physica B: Condensed Matter, 2006, 378-380, 1107-1108.	1.3	3
34	Thermal and magnetic properties of Ce ₅ Ni ₂ Si ₃ . Physica B: Condensed Matter, 2006, 378-380, 851-853.	1.3	4
35	Heat capacity, enthalpy and entropy of strontium bismuth niobate and strontium bismuth tantalate. Thermochimica Acta, 2006, 450, 105-109.	1.2	13
36	Magnetic and transport properties of $\langle \text{mml:math altimg="si8.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-bib/dtd" \rangle$ Journ	1.0	2

#	ARTICLE	IF	CITATIONS
37	<p>heat analysis of heavy REFe</p> <pre><mml:math altimg="si24.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:tbl="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier. journ</pre>	1.0	3

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#	ARTICLE	IF	CITATIONS
55	Antiferromagnetic correlations and magnetocaloric phenomena in UNi ₂ Si ₂ . Physica B: Condensed Matter, 2003, 339, 177-181.	1.3	2
56	Crystal growth and basic thermodynamic properties of NdFe ₂ Si ₂ . Physica B: Condensed Matter, 2003, 328, 173-178.	1.3	8
57	Magnetic correlations reflected by anomalies in transport and elastic properties of uranium intermetallics. Physica B: Condensed Matter, 2003, 328, 95-99.	1.3	2
58	The analysis of the specific heat of RFe ₂ Si ₂ compounds. Physica B: Condensed Matter, 2003, 328, 139-141.	1.3	21
59	Magnetic ordering and specific heat analysis of TmPtSn. Physica B: Condensed Matter, 2003, 328, 142-144.	1.3	3
60	Antiferromagnetism and magnetoleasticity of UNiAl. Physica B: Condensed Matter, 2003, 329-333, 480-481.	1.3	2
61	Evolution of magnetic structures in U(Ni _{1-x} Pd _x) ₂ Si ₂ system. Physica B: Condensed Matter, 2003, 329-333, 502-503.	1.3	1
62	Thermodynamic properties of SmCu ₂ . Physica B: Condensed Matter, 2003, 329-333, 504-505.	1.3	3
63	Superconductivity in LaCu ₆ and possible applications. Physica C: Superconductivity and Its Applications, 2003, 388-389, 565-566.	0.6	3
64	Modeling magnetostriction in RCu ₂ compounds using McPhase. Journal of Applied Physics, 2002, 91, 8885.	1.1	11
65	On the crystal structure and magnetism of CePtSn at low temperatures. Journal of Alloys and Compounds, 2002, 334, 50-52.	2.8	4
66	Crystal growth and magnetic properties of SmCu ₂ . European Physical Journal D, 2002, 52, A233-A236.	0.4	1
67	Complex magnetic phase diagram of TmCu ₂ . Applied Physics A: Materials Science and Processing, 2002, 74, s748-s750.	1.1	1
68	Neutron-diffraction study of CePtSn. Applied Physics A: Materials Science and Processing, 2002, 74, s731-s733.	1.1	6
69	Crystal field-phonon coupling in the Kondo lattice CeCu ₂ . Applied Physics A: Materials Science and Processing, 2002, 74, s571-s573.	1.1	3
70	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
71	Unusual phonon softening in the Kondo lattice CeCu ₂ . Physica B: Condensed Matter, 2002, 312-313, 181-183.	1.3	5
72	Magnetic phase diagram and critical scattering of UNi ₂ Si ₂ . Physica B: Condensed Matter, 2002, 322, 248-251.	1.3	4

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73	Magnetic Phase Transitions in CePtSn. European Physical Journal D, 2002, 52, 259-262.	0.4	2
74	Antiferromagnetic Ordering in TmCu ₂ . European Physical Journal D, 2002, 52, 267-270.	0.4	2
75	On some magnetic phase transitions in CePtSn. Journal of Alloys and Compounds, 2001, 323-324, 380-383.	2.8	1
76	Magnetic phase diagram of UNi ₂ Si ₂ under magnetic field and high-pressure. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 585-587.	1.0	0
77	Field dependence of the incommensurate magnetic order in UNiGe. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 70-71.	1.0	0
78	Anomalous magnetic exchange interactions in SmCu ₂ . Physical Review B, 2001, 64, .	1.1	10
79	Importance of anharmonic terms in the analysis of the specific heat of UNi ₂ Si ₂ . Physical Review B, 2001, 63, .	1.1	54
80	Magnetic phase transitions in CePtSn. Journal of Applied Physics, 2001, 89, 7189-7191.	1.1	10
81	Magnetic field induced irreversibility in UNiAl. Journal of Applied Physics, 2001, 89, 7639-7641.	1.1	6
82	Magnetic phase diagram of UNi ₂ Si ₂ in high fields. Physica B: Condensed Matter, 2000, 276-278, 686-687.	1.3	5
83	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
84	Crystallographic and magnetic structures of U(Ni _{1-x} Tx)Al compounds. Physica B: Condensed Matter, 2000, 276-278, 714-715.	1.3	1
85	Giant magneto-striction in TbCu ₂ and DyCu ₂ crystals. Physica B: Condensed Matter, 2000, 284-288, 1331-1332.	1.3	6
86	Structural stability of LaCu ₂ and YCu ₂ 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
87	Structural change in DyCu ₂ single crystal induced by magnetic field. Europhysics Letters, 1999, 48, 410-414.	0.7	22
88	Magnetic structure of U ₂ Pt ₂ Sn. Journal of Magnetism and Magnetic Materials, 1999, 202, 451-457.	1.0	7
89	High-field transition in TbCu ₂ . Physica B: Condensed Matter, 1998, 246-247, 479-482.	1.3	4
90	Reduced magnetic moments in UNiSi. Journal of Alloys and Compounds, 1998, 269, 43-49.	2.8	4

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91	Specific Heat and Phase Diagram of NdCu ₂ in Magnetic Field. Journal of the Physical Society of Japan, 1998, 67, 594-598.	0.7	4
92	Neutron diffraction study of magnetic structures in TbNiAl. Journal of Magnetism and Magnetic Materials, 1997, 166, 133-140.	1.0	37
93	Crystallographic and magnetic structures in UTSi compounds. Physica B: Condensed Matter, 1997, 230-232, 39-42.	1.3	9
94	Diffuse magnetic neutron scattering in NdCu ₂ . Physica B: Condensed Matter, 1997, 234-236, 640-641.	1.3	0
95	Observation of higher-order harmonics in AF ₂ phase of NdCu ₂ . Physica B: Condensed Matter, 1997, 234-236, 642-643.	1.3	3
96	Commensurate and incommensurate magnetic order of UPdSi. Physica B: Condensed Matter, 1997, 241-243, 687-689.	1.3	4
97	Electronic structure of URhSi. Solid State Communications, 1997, 104, 597-601.	0.9	9
98	Electronic properties of U ₂ Pt ₂ Sn. Journal of Applied Physics, 1996, 79, 6361.	1.1	5
99	Magnetic anisotropy of U ₂ Pd ₂ In. Physica B: Condensed Matter, 1996, 223-224, 225-227.	1.3	9
100	The magnetic phases of NdCu ₂ . Zeitschrift für Physik B-Condensed Matter, 1996, 101, 499-510.	1.1	29
101	Neutron diffraction study of magnetic ordering in NdNiAl and PrNiAl. Journal of Magnetism and Magnetic Materials, 1996, 164, 183-186.	1.0	7
102	Magnetism in URhSi. Journal of Applied Physics, 1996, 79, 5221.	1.1	12
103	Magnetic and Electrical Properties of NdCu ₂ . Journal of the Physical Society of Japan, 1995, 64, 4889-4895.	0.7	4
104	The specific heat of single crystal NdCu ₂ . Physica B: Condensed Matter, 1995, 206-207, 395-397.	1.3	7
105	High field magnetization of a NdCu ₂ single crystal. Physica B: Condensed Matter, 1995, 211, 172-174.	1.3	4
106	Muon spin rotation spectroscopy on a UNiGa single crystal. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1381-1382.	1.0	5
107	Magnetism in U ₂ T ₂ X compounds. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1367-1368.	1.0	48
108	Magnetic properties of RCuAl and RNiAl compounds. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1139-1140.	1.0	29

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109	Anisotropic magnetic and transport properties of NdCu ₂ . Journal of Magnetism and Magnetic Materials, 1995, 150, 151-156.	1.0	1
110	Magnetic phase diagram of UNiGa. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1379-1380.	1.0	20
111	Anisotropic magnetic and transport properties of UNiGe. IEEE Transactions on Magnetics, 1994, 30, 1214-1216.	1.2	22
112	Incommensurate antiferromagnetic phase in UNiGe. Journal of Applied Physics, 1994, 76, 6217-6219.	1.1	6
113	Heavy fermion behavior of U ₂ T ₂ X compounds. Journal of Applied Physics, 1994, 76, 6214-6216.	1.1	50
114	Magnetic ordering in U ₂ Pd ₂ In and U ₂ Pd ₂ Sn. Physical Review B, 1994, 50, 6792-6801.	1.1	67
115	High-field magnetization of U ₂ T ₂ X compounds (T = Co, Ni, Rh, Pd, Ir, Pt and X = In, Sn). Physica B: Condensed Matter, 1994, 201, 247-250.	1.3	25
116	Metamagnetic transitions and giant magnetoresistance in UNiGe. Physica B: Condensed Matter, 1994, 201, 251-254.	1.3	13
117	Single crystal growth and electrical properties of CeRh ₂ and CeIr ₂ . Physica B: Condensed Matter, 1994, 199-200, 570-571.	1.3	3
118	Fermi surface properties of UPd ₃ . Physica B: Condensed Matter, 1994, 199-200, 654-655.	1.3	0
119	Magnetic phases in unige. Journal of Alloys and Compounds, 1994, 213-214, 536-539.	2.8	20
120	Single Crystal Growth and Electrical Properties of CeRh ₂ and CeIr ₂ . Journal of the Physical Society of Japan, 1994, 63, 1502-1507.	0.7	22
121	Magnetic and Electrical Properties of UPd ₃ . Journal of the Physical Society of Japan, 1994, 63, 1518-1529.	0.7	19
122	MAGNETISM IN UPtIn. International Journal of Modern Physics B, 1993, 07, 842-845.	1.0	1
123	Antiferromagnetic domains in UPdSn. Journal of Applied Physics, 1993, 73, 6551-6553.	1.1	9
124	Magnetic anisotropy of UCoGa. Journal of Applied Physics, 1993, 73, 6554-6556.	1.1	18
125	Magnetism in RENiAl compounds. Journal of Applied Physics, 1993, 73, 5677-5679.	1.1	37
126	Magnetic phase transitions in NdCu ₂ . Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1329-1330.	1.0	25

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127	Magnetism and crystal field in NdCu ₅ . Physica B: Condensed Matter, 1991, 168, 251-256.	1.3	10
128	Magnetic phase transitions in Tm(Cu _{1-x} Ni _x) ₂ . Journal of Magnetism and Magnetic Materials, 1990, 83, 297-299.	1.0	3
129	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
130	Magnetoelastic interactions in the orthorhombic RECu ₂ compounds (RE identical to Tb, Dy, Ho, Er, Tm). Journal of Physics Condensed Matter, 1990, 2, 7569-7573.	0.7	11
131	On crystal-field spectroscopy based on specific heat and thermal expansion measurements: application to the TmCu ₂ intermetallic compound. Journal of Physics Condensed Matter, 1989, 1, 10153-10163.	0.7	10
132	Magnetic Behaviour of TmCu ₂ below T _N . Physica Status Solidi A, 1989, 111, 285-288.	1.7	8
133	The Influence of Crystal Field Splitting on the Paramagnetic Magnetisation of TmCu ₂ . Physica Status Solidi (B): Basic Research, 1989, 153, K69.	0.7	5
134	Magnetic properties of REBa ₂ Cu ₃ O ₇ (RE = Y, Nd, Sm, Eu, Gd, Dy, Ho). Physica C: Superconductivity and Its Applications, 1988, 153-155, 186-187.	0.6	4
135	MAGNETISM AND CRYSTAL FIELD IN TmCu ₂ . Journal De Physique Colloque, 1988, 49, C8-415-C8-416.	0.2	5
136	CRYSTAL-FIELD EFFECTS IN REBa ₂ Cu ₃ O ₇ . Journal De Physique Colloque, 1988, 49, C8-2177-C8-2178.	0.2	8
137	Magnetic hysteresis phenomena in high T _c superconductors. European Physical Journal D, 1987, 37, 660-664.	0.4	13
138	The loss of ferromagnetism in (Uv)Ga ₂ (v = Y, Gd). Journal of the Less Common Metals, 1986, 121, 163-167.	0.9	13
139	Magnetic and crystallographic properties of Gd(Cu _{1-x} Ni _x) ₂ and Gd(Cu _{1-x} Al _x) ₂ intermetallic compounds. Physica Status Solidi A, 1986, 97, 501-509.	1.7	9
140	Magnetic and Crystallographic Properties of Gd(Cu _{1-x} Co _x) ₂ . Physica Status Solidi A, 1986, 98, 221-227.	1.7	4
141	Magnetic phase transitions in TmCu ₂ . Journal of Physics F: Metal Physics, 1986, 16, L201-L204.	1.6	13