

Jiri Pospisil

List of Publications by Year in descending order

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75
papers

548
citations

687363

13
h-index

839539

18
g-index

76
all docs

76
docs citations

76
times ranked

525
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordered array of Ti particles in Ti -matrix studied by Itinerant ferromagnetism in actinide U - Ti matrix studied by Physical Review B, 2017, 96, .	7.9	30
2	Itinerant ferromagnetism in actinide U - Ti matrix studied by Physical Review B, 2017, 96, .	3.2	27
3	Superconductivity in the YIr_2Si_2 and LaIr_2Si_2 Polymorphs. Journal of the Physical Society of Japan, 2012, 81, 104715.	1.6	24
4	Growth of Ti inclusions in Ti alloys: An X-ray diffraction study. Acta Materialia, 2013, 61, 6635-6645.	7.9	20
5	Wing structure in the phase diagram of the Ising ferromagnet URhGe close to its tricritical point investigated by angle-resolved magnetization measurements. Physical Review B, 2017, 96, .	3.2	20
6	Samarium magnetism studied on SmPd crystal. Physical Review B, 2010, 81, .	2.2	19
7	Influence of Sample Preparation Technology and Treatment on Magnetism and Superconductivity of UCoGe. Journal of the Physical Society of Japan, 2011, 80, 084709.	1.6	18
8	Evolution of magnetism in LuFeAl_{12-x} ($4 \times 2 \times 6$) single crystals. Journal of Alloys and Compounds, 2013, 563, 63-71.	5.5	18
9	Single crystal growth of TIMETAL LCB titanium alloy by a floating zone method. Journal of Crystal Growth, 2014, 405, 92-96.	1.5	17
10	Magnetic anisotropy in the van der Waals ferromagnet V_3I . Physical Review B, 2021, 103, .	3.2	17
11	Magnetic field induced phenomena in UIrGe in fields applied along the b axis. Physical Review B, 2018, 98, .	3.2	15
12	Evolution of ferromagnetic and non-Fermi-liquid states with doping: The case of Ru-doped UCoGe. Physical Review B, 2015, 92, .	3.2	14
13	Switching of magnetic ground states across the UIrGe alloy system. Physical Review B, 2017, 95, .	3.2	14
14	Ferromagnetism in UCoGe stabilized by transition metal doping. Journal of Applied Physics, 2009, 105, 07E114.	2.5	13
15	Pressure effect on the crystal lattice of unconventional superconductor UCoGe. Journal of Physics Condensed Matter, 2010, 22, 275603.	1.8	13
16	Positron annihilation spectroscopy study of radiation-induced defects in W and Fe irradiated with neutrons with different spectra. Scientific Reports, 2020, 10, 18898.	3.3	13
17	Critical behavior of magnetization in URhAl: Quasi-two-dimensional Ising system with long-range interactions. Physical Review B, 2018, 97, .	3.2	12
18	Magnetotransport as a probe of phase transformations in metallic antiferromagnets: The case of UIrSi ₃ . Physical Review B, 2019, 100, .	3.2	12

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19	Magnetic properties of the hydrogenated unconventional superconductor UCoGe. International Journal of Materials Research, 2009, 100, 1230-1233.	0.3	11
20	Influence of symmetry on Sm magnetism studied on SmIr ₂ Si ₂ polymorphs. Journal of Alloys and Compounds, 2013, 574, 459-466.	5.5	11
21	Shape memory behavior of a Ni ₃ Ta alloy pre-deformed in compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2900-2905.	5.6	10
22	Structure phase transitions of polymorphic compounds with layered crystal structures: The REIr ₂ Si ₂ case. Intermetallics, 2011, 19, 1622-1626.	3.9	10
23	Effect of Pressure on Magnetism of UIrGe. Journal of the Physical Society of Japan, 2017, 86, 044709.	1.6	10
24	Anisotropic magnetocaloric effect in TbNiAl. Journal of Alloys and Compounds, 2011, 509, 5931-5934.	5.5	9
25	Gradual Localization of 5 <i>f</i> States in Orthorhombic UTX Ferromagnets: Polarized Neutron Diffraction Study of Ru Substituted UCoGe. Journal of the Physical Society of Japan, 2015, 84, 084707.	1.6	9
26	Properties and Collapse of the Ferromagnetism in UCo _{1-x} Al _x Studied in Single Crystals. Journal of the Physical Society of Japan, 2016, 85, 034710.	1.6	9
27	Low magnetic field phase diagram of UCoGe. Physical Review B, 2010, 82, .	3.2	8
28	Complex magnetic phase diagram of a geometrically frustrated Sm lattice: Magnetometry and neutron diffraction study of SmPd ₂ Al. $\frac{R}{h} \text{ vs } \frac{1}{T}$ Physical Review B, 2013, 87, .	3.2	8
29	Complex magnetic phase diagram of a geometrically frustrated Sm lattice: Magnetometry and neutron diffraction study of SmPd ₂ Al. Physical Review B, 2013, 87, .	3.2	8
30	Magnetic properties of RE ₂ Fe ₁₇ xCr _x (RE=Pr, Gd). Journal of Magnetism and Magnetic Materials, 2007, 310, e629-e631.	2.3	7
31	Influence of anisotropy, the latent heat and the thermal history of alloy on martensitic transformation strain in Ni ₃ Ta single crystal. Journal of Alloys and Compounds, 2011, 509, 5500-5505.	5.5	7
32	Magnetic phase diagram of NdIr ₂ Si ₂ . Physical Review B, 2011, 83, .	3.2	7
33	The surface degradation and its impact on the magnetic properties of bulk V ₁₃ . Materials Chemistry and Physics, 2022, 278, 125590.	4.0	7
34	Low temperature AC susceptibility of UCoGe crystals. Journal of Physics: Conference Series, 2010, 200, 012161.	0.4	6
35	YPd ₂ Al ₃ A new superconducting compound. Journal of Alloys and Compounds, 2011, 509, 1401-1406.	5.5	6
36	Low-temperature study of an Er ₂ Ti ₂ O ₇ single crystal synthesized by floating zone technique and simplified feed rod preparation route. Journal of Crystal Growth, 2020, 546, 125783.	1.5	6

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37	Crystallographic and magnetic structure of UNi_4B . Physical Review B, 2021, 103, .	3.2	6
38	Growth and characterization of CePtIn single crystal. Journal of Crystal Growth, 2014, 394, 61-66.	1.5	5
39	Crystal structure evolution in the van der Waals vanadium trihalides. Journal of Physics Condensed Matter, 2022, 34, 294007.	1.8	5
40	Spectroscopy of thermoactivated relaxation processes in butadiene-styrene copolymers in the elementary relaxator approach. Polymer Bulletin, 1983, 9, 40-46.	3.3	4
41	Magnetism in hydrogenated UTGe compounds. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012051.	0.6	4
42	Magnetism in GdCo_2B_2 Studied on a Single Crystal. Journal of the Physical Society of Japan, 2014, 83, 054713.	1.6	4
43	Evolution of magnetism in UCoGe and UCoAl with Ru doping. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2015, 6, 015017.	1.5	4
44	Consecutive magnetic phase diagram of UCoGe-URhGe-UIrGe system. Physica B: Condensed Matter, 2018, 536, 532-534.	2.7	4
45	Inelastic X-ray scattering of RTAl_3 (R = La, Ce, T = Cu, Au). Physica B: Condensed Matter, 2018, 536, 24-27.	2.7	4
46	The effect of hydrogenation on magnetic interactions in CeNi. Journal of Physics Condensed Matter, 2009, 21, 446003.	1.8	3
47	Magnetism of UTGe compounds tuned by hydrogen absorption. Journal of Physics: Conference Series, 2010, 200, 012002.	0.4	3
48	Magnetism of UCoGe and $\text{U}_3\text{Co}_4\text{Ge}_7$. Journal of Magnetism and Magnetic Materials, 2010, 322, 1137-1139.	2.3	3
49	Magnetic Studies of Ternary Germanides $\text{U}_3\text{Co}_4\text{Ge}_7$ and $\text{U}_3\text{Co}_2\text{Ge}_7$ with Strong Uniaxial Anisotropy. Journal of the Physical Society of Japan, 2012, 81, 094703.	1.6	3
50	Influence of Ru on magnetic properties of Y_2Tl_7 (T = Fe, Co) and $\text{Y}_2\text{Fe}_{16}\text{Si}$ single crystals. Journal of Alloys and Compounds, 2015, 621, 415-422.	5.5	3
51	Evaluation of anisotropic small-angle neutron scattering data from metastable $\hat{\Gamma}^2$ -Ti alloy. Philosophical Magazine, 2018, 98, 3086-3108.	1.6	3
52	Magnetic phase diagram of the antiferromagnet $\text{U}_2\text{Rh}_2\text{Pb}$. Journal of Alloys and Compounds, 2020, 823, 153485.	5.5	3
53	Magnetic properties of $\text{TbMn}_{0.98}\text{Fe}_{0.02}\text{O}_3$ single crystal. Journal of Magnetism and Magnetic Materials, 2022, 549, 168986.	2.3	3
54	Tricritical fluctuations and elastic properties of the Ising antiferromagnet UIrSi_3 . Physical Review B, 2022, 105, .	2.2	3

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55	Luminescence of poly(N-vinylcarbazole) in the solution and solid state. European Physical Journal D, 1975, 25, 1176-1180.	0.4	2
56	Magnetic and thermodynamic properties and MCE of intermetallic compounds PrNi _{1-x} Ptx. Journal of Magnetism and Magnetic Materials, 2007, 316, e552-e554.	2.3	2
57	Synthesis and magnetic studies of ternary germanides U ₃ Co ₄ Ge ₇ and U ₃ Co ₂ Ge ₇ . IOP Conference Series: Materials Science and Engineering, 2010, 9, 012048.	0.6	2
58	Structural and magnetic study of SmTAl single crystals (T=Pd and Ni). Journal of Applied Physics, 2012, 111, 07E146.	2.5	2
59	Alloying-driven transition between ferromagnetism and antiferromagnetism in UTGe compounds: $U_{1-x}Co_x$. Physical Review B, 2022, 105, .	3.2	2
60	Electronic structure and magnetism of PrNixPt _{1-x} compounds. Journal of Alloys and Compounds, 2008, 450, 118-127.	5.5	1
61	Influence of Ru on the Magnetic Properties of Y ₂ T ₁₇ (T =) Tj ETQq ₁ 0.7843 ₁ rgBT / 0.3	0.3	1
62	Magnetic and transport properties of CePt ₃ Ge Kondo lattice in crystalline and sub-micron state. Journal of Alloys and Compounds, 2012, 520, 22-29.	5.5	1
63	Magnetoresistance and Hall effect of antiferromagnetic uranium compound URhIn ₅ . Journal of Physics: Conference Series, 2017, 807, 012015.	0.4	1
64	Magnon excitations and quantum critical behavior of the ferromagnet U ₄ Ru ₇ Ge ₆ . Physical Review B, 2018, 98, .	3.2	1
65	Magnetization reversal in NdMn ₈ Fe ₀ O ₃ . Journal of Magnetism and Magnetic Materials, 2022, 541, 168531.	2.3	1
66	TSDC study of chemical induced crosslinking in polybutadiene rubber. , 0, , .		0
67	Magnetic phase transitions in SmPd ₂ Al ₃ . Journal of Physics: Conference Series, 2010, 200, 032058.	0.4	0
68	Influence of the Texture and Strain on the Behaviour of Ni _{53.6} Mn _{27.1} Ga _{19.3} and Ni _{54.2} Mn _{29.4} Ga _{16.4} Shape Memory Alloys. Journal of Materials, 2013, 2013, 1-8.	0.1	0
69	Magnetism in UCo _{0.88} Ru _{0.12} Ge Studied by Polarized Neutrons. Acta Physica Polonica A, 2014, 126, 330-331.	0.5	0
70	Magnetic Properties of a Novel CeCo _{0.715} Si _{2.285} Compound. Acta Physica Polonica A, 2015, 127, 561-563.	0.5	0
71	ScPd ₂ Al ₃ – New polymorphic phase in Al-Pd-Sc system. Solid State Communications, 2017, 268, 12-14.	1.9	0
72	Investigation of the tricritical point of the ising ferromagnet URhGe by angle-resolved measurements. AIP Advances, 2018, 8, 101305.	1.3	0

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73	Two Ferromagnetic QCP in $\text{UCo}_{1-x}\text{Ru}_x\text{Al}$ Compounds., 2014, , .		0
74	Renewed Single Crystal Study of $\text{Ce}_3\text{Al}_{11}$., 2020, , . Electronic structure of ThPd_2		0
75	Impact of the U states on the electronic structure of UPd_5 . Phy		0