

# Jaroslav Valenta

## List of Publications by Year in descending order

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29  
papers

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citations

1163117

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1199594

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docs citations

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times ranked

265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced large increase of Curie temperature of the van der Waals ferromagnet $\sqrt{V}I_3$ . <i>Physical Review B</i> , 2021, 103, .	3.2	27
2	Pressure-induced valence change and moderate heavy fermion state in Eu-compounds. <i>Physica B: Condensed Matter</i> , 2018, 536, 182-191.	2.7	15
3	Antiferromagnetism and phase transitions in noncentrosymmetric $\text{UlrSi}_3$ . <i>Physical Review B</i> , 2018, 97, .	3.2	14
4	$\text{Fe}_2\text{MnSn}$ – Experimental quest for predicted Heusler alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 501, 166426.	2.3	14
5	Magnetotransport as a probe of phase transformations in metallic antiferromagnets: The case of $\text{UlrSi}_3$ . <i>Physical Review B</i> , 2019, 100, .	3.2	12
6	Quantum ferromagnet in the proximity of the tricritical point. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	11
7	Systematic search for new $\text{Co}_2\text{YZ}$ and $\text{Rh}_2\text{YZ}$ Heusler alloys based on theoretical calculations. <i>Intermetallics</i> , 2021, 130, 107060.	3.9	9
8	Systematic experimental search for $\text{Fe}_2\text{YZ}$ Heusler compounds predicted by ab-initio calculation. <i>Intermetallics</i> , 2021, 131, 107073.	3.9	9
9	Experimental study of magnetocaloric effect in the two-level quantum system $\text{KTm}(\text{MoO}_4)_2$ . <i>Physica B: Condensed Matter</i> , 2018, 536, 450-453.	2.7	7
10	Pressure variations of the 5f magnetism in $\text{UH}_3$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 165993.	2.3	6
11	Characterization, specific heat and magnetization measurements on $\text{Ni}_2\text{YZ}$ Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167083.	2.3	6
12	states in $\text{U}_5\text{f}_5\text{Ga}_2$ probed by x-ray spectroscopies. <i>Physical Review B</i> , 2021, 104, .	3.2	5
13	Chemical and physical pressure effects in the A-site spinel antiferromagnets $\text{CoM}_2\text{O}_4$ (M = Al, Co, and Tj). <i>ETQq1</i> 1 0.784314 $\mu\text{gBT}/\text{Ov}$ 1.6	1.6	5
14	Magnetism in $\text{RCo}_2$ (R = Dy, Ho, Er, Tm) Under Hydrostatic Pressure. <i>Acta Physica Polonica A</i> , 2014, 126, 288-289.	0.5	3
15	Properties of the divalent-Yb compound $\text{YbAu}_2\text{Si}_2$ under extreme conditions. <i>Physica B: Condensed Matter</i> , 2017, 505, 41-44.	2.7	3
16	The low and high temperature thermoelectric properties of $\text{Yb}_3\text{Si}_5$ . <i>Materials Research Express</i> , 2021, 8, 075504.	1.6	3
17	Pressure induced superconductivity in a $\text{CeRhSi}_3$ single crystal – the high pressure study. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 035602.	1.8	3
18	Tricritical fluctuations and elastic properties of the Ising antiferromagnet $\text{UlrSi}_3$ . <i>Physical Review B</i> , 2022, 105, .	2.2	3

#	ARTICLE	IF	CITATIONS
19	Synthesis and characterisation of Fe-substituted Ni <sub>50</sub> Mn <sub>25</sub> Fe <sub>25</sub> Ga <sub>25</sub> - single crystals”Development of the phase transformations with Fe content. Journal of Alloys and Compounds, 2022, 908, 164543.	5.5	2
20	Magnetism in TmCo <sub>2</sub> . Acta Physica Polonica A, 2015, 127, 379-381.	0.5	1
21	Electrical resistivity across the tricriticality in itinerant ferromagnet. AIP Advances, 2018, 8, 055710.	1.3	1
22	Effect of localization of 5f -electrons and pressure on magnetism in uranium intermetallics in spin-fluctuation theory. Physical Review B, 2020, 102, .	3.2	1
23	Impact of isoelectronic substitution and hydrostatic pressure on the quantum critical properties of CeRhSi <sub>3</sub> . Journal of Physics Condensed Matter, 2020, 32, 425601.	1.8	1
24	Weakly anisotropic ferromagnet EuRu <sub>2</sub> P <sub>2</sub> : Ambient and hydrostatic pressure characterization. Journal of Alloys and Compounds, 2021, 864, 158753.	5.5	1
25	Evolution of magnetic and structural phase transitions in solid solutions Ni <sub>2</sub> MnGa <sub>1-x</sub> Ge <sub>x</sub> . Journal of Alloys and Compounds, 2022, 894, 162441.	5.5	1
26	Slow spin dynamics in a CoM <sub>2</sub> O <sub>4</sub> A-site spinel (M=Al, Ga, and Rh). Journal of Physics Communications, 2022, 6, 055001.	1.2	1
27	Presence of Parimagnetism in Ho(Co <sub>1-x</sub> Si <sub>x</sub> ) <sub>2</sub> Under Hydrostatic Pressure. Acta Physica Polonica A, 2014, 126, 406-408.	0.5	0
28	Presence of parimagnetism in HoCo <sub>2</sub> under hydrostatic pressure. Journal of Physics: Conference Series, 2014, 500, 182041.	0.4	0
29	Renewed Single Crystal Study of Ce <sub>3</sub> Al <sub>11</sub> . , 2020, , .		0