Petr DoleÅ¾al

List of Publications by Year
in descending order

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30	213	1163117 8	1125743 13
papers	citations	h-index	g-index

30	30	30	276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal structures and phase transitions of the van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	2.4	33
2	Pressure-induced large increase of Curie temperature of the van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	27
3	Magnetic structures and excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CePd</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Al</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> series: Development of the â€œbronâ€•states. Physical Review B, 2017, 95, .	3.2	18
4	Magnetic anisotropy in the van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	17
5	Structural, thermodynamic, thermal, and electron transport properties of single-crystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaPt</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	3.2	14
6	Effect of the High-Pressure Torsion (HPT) and Subsequent Isothermal Annealing on the Phase Transformation in Biomedical Ti15Mo Alloy. Metals, 2019, 9, 1194.	2.3	14
7	In-situ investigation of phase transformations in ultra-fine grained Ti15Mo alloy. Journal of Alloys and Compounds, 2021, 867, 159027.	5.5	11
8	Magnetic and transport properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">CePd</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">Al</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> single crystal. Journal of Alloys and Compounds, 2015, 639, 51-59.	5.5	9
9	Strain-induced switching between noncollinear and collinear spin configuration in magnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math> films. Physical Review B, 2021, 104, .	3.2	7
10	Czochralski growth of LaPd2Al2 single crystals. Journal of Crystal Growth, 2017, 475, 10-20.	1.5	6
11	Structural Phase Transition in CePd₂Ga₂under Hydrostatic Pressure. Acta Physica Polonica A, 2015, 127, 219-221.	0.5	6
12	Laser shock peening of copper poly- and single crystals. Materials Characterization, 2021, 174, 111037.	4.4	5
13	Crystal structure evolution in the van der Waals vanadium trihalides. Journal of Physics Condensed Matter, 2022, 34, 294007.	1.8	5
14	Local atomic arrangement in LaCuAl3 and LaAuAl3 by NMR and density functional theory. Journal of Physics Condensed Matter, 2019, 31, 385601.	1.8	4
15	Structural instability in CePd2(Al,Ga)2 and LaPd2(Al,Ga)2. Journal of Alloys and Compounds, 2019, 790, 480-492.	5.5	4
16	Multiple charge density wave states and magnetism in NdPt2Si2 against the background of its nonmagnetic analog LaPt2Si2. Physical Review B, 2020, 101, .	3.2	4
17	Properties of the divalent-Yb compound YbAu2Si2 under extreme conditions. Physica B: Condensed Matter, 2017, 505, 41-44.	2.7	3
18	Spin fluctuations in hydrogen-stabilized Laves phase UTi₂H₅. Philosophical Magazine, 2019, 99, 1881-1898.	1.6	3

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19	Enhanced magnetocaloric effect in distilled terbium and emergence of novel properties after severe plastic deformation. Scripta Materialia, 2020, 187, 340-344.	5.2	3
20	Temperature versus composition phase diagram and temperature evolution of structure and modulation of Ni2MnGa1-xInx single crystals. Journal of Alloys and Compounds, 2021, 855, 157327.	5.5	3
21	Stability of the 4f-magnetism in Ce2Pd2In under hydrostatic and uniaxial pressure. Journal of Alloys and Compounds, 2021, 878, 160304.	5.5	3
22	Effect of lattice distortion on uranium magnetic moments in U4Ru7Ge6 studied by polarized neutron diffraction. Physical Review B, 2018, 97, .	3.2	2
23	Experimental and first-principle study of LuPd2Si2 superconductor. Intermetallics, 2018, 100, 171-174.	3.9	2
24	LaPt2Al2 - new superconducting material. Journal of Alloys and Compounds, 2020, 848, 156360.	5.5	2
25	Alloying-driven transition between ferromagnetism and antiferromagnetism in UTGe compounds: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">U</mml:mi><mml:msub><mml:mi>Co</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo> Physical Review B, 2022, 105, .	3.2	2
26	La₂Pd₂In: superconductivity and lattice properties at ambient and elevated pressures. Journal of Physics Condensed Matter, 2022, 34, 145403.	1.8	2
27	27Al-NMR studies of the structural phase transition in LaPd2Al2. Physica B: Condensed Matter, 2018, 536, 320-322.	2.7	1
28	CePt₂Al₂: Structural and Bulk Properties. Inorganic Chemistry, 2020, 59, 12263-12275.	4.0	1
29	Ab initio calculations of the crystal field and phonon dispersions in CePd2Al2 and LaPd2Al2. Journal of Physics Condensed Matter, 2020, 32, 235402.	1.8	1
30	Lattice dynamics in CePd2Al2 and LaPd2Al2. Scientific Reports, 2021, 11, 20878.	3.3	1