Janez DolinÅ¡ek

List of Publications by Year
in descending order

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77 papers	1,298 citations	471061 17 h-index	395343 33 g-index
80 all docs	80 docs citations	80 times ranked	1690 citing authors

#	Article	IF	Citations
1	Superconductivity in High-Entropy and Medium-Entropy Alloys From the Ti-Zr-Nb-Sn-Hf-Ta System. , 2022, , 500-510.		1
2	The Effect of Scandium on the Structure, Microstructure and Superconductivity of Equimolar Sc-Hf-Nb-Ta-Ti-Zr Refractory High-Entropy Alloys. Materials, 2022, 15, 1122.	1.3	10
3	Electronic transport properties of the Al0.5TiZrPdCuNi alloy in the high-entropy alloy and metallic glass forms. Scientific Reports, 2022, 12, 2271.	1.6	3
4	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Al</mml:mi><mml:mprescripts /><mml:none /><mml:mn>27</mml:mn></mml:mmultiscripts></mml:math> NMR local study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Al</mml:mi><mml:mrow><mml:mn>0.5</m alloy in high-entropy alloy and metallic glass forms. Physical Review B, 2022, 105, .	1.1	0
5	Collective magnetism of a single-crystalline nanocomposite FeCoCrMnAl high-entropy alloy. Journal of Alloys and Compounds, 2021, 864, 158115.	2.8	4
6	Nanostructure and local polymorphism in â€œideal-likeâ€•rare-earths-based high-entropy alloys. Materials Characterization, 2021, 172, 110837.	1.9	4
7	Structural Model and Spin-Glass Magnetism of the Ce3Au13Ge4 Quasicrystalline Approximant. Inorganic Chemistry, 2021, 60, 2526-2532.	1.9	1
8	Structure and Superconductivity of Tin-Containing HfTiZrSnM (M = Cu, Fe, Nb, Ni) Medium-Entropy and High-Entropy Alloys. Materials, 2021, 14, 3953.	1.3	3
9	Structure and Spin-Glass Magnetism of the MnxNi2Zn11â€“x Pseudobinary Î³-Brasses at Low Mn Contents. Inorganic Chemistry, 2021, 60, 12226-12236.	1.9	5
10	NMR spectroscopy-supported design and properties of air lime-white cement injection grouts for strengthening of historical masonry buildings. Construction and Building Materials, 2020, 250, 118937.	3.2	6
11	Anisotropic Electrical, Magnetic, and Thermal Properties of In 3 Ni 2 Intermetallic Catalyst. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1099-1104.	0.6	0
12	Resolving Dirac electrons with broadband high-resolution NMR. Nature Communications, 2020, 11, 1285.	5.8	13
13	Anisotropic quantum critical point in the Ce3Al system with a large magnetic anisotropy. Journal of Physics Communications, 2020, 4, 105016.	0.5	1
14	Discovery of a FeCoNiPdCu Highâ€Entropy Alloy with Excellent Magnetic Softness. Advanced Engineering Materials, 2019, 21, 1801055.	1.6	24
15	Magnetic phase diagram and magnetoresistance of Gdâ€“Tbâ€“Dyâ€“Hoâ€“Lu hexagonal high-entropy alloy. Intermetallics, 2019, 105, 163-172.	1.8	16
16	Magnetism of CoCrFeNiZrx eutectic high-entropy alloys. Intermetallics, 2018, 93, 122-133.	1.8	46
17	The effect of surface oxidation on the catalytic properties of Ga3Ni2 intermetallic compound for carbon dioxide reduction. Journal of Analytical Science and Technology, 2018, 9, .	1.0	10
18	Electronic transport properties of complex intermetallics. , 2018, , 261-278.		0

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19	Disordered ferromagnetic state in the Ce-Gd-Tb-Dy-Ho hexagonal high-entropy alloy. Journal of Alloys and Compounds, 2018, 742, 877-886.	2.8	18
20	Reorientational Motions and Ionic Conductivity in (NH4)2B10H10and (NH4)2B12H12. Journal of Physical Chemistry C, 2018, 122, 17073-17079.	1.5	10
21	Molecular dynamics of 1-ethyl-3-methylimidazolium triflate ionic liquid studied by ¹H and ¹⁹F nuclear magnetic resonances. Physical Chemistry Chemical Physics, 2017, 19, 15368-15376.	1.3	24
22	Anisotropic electrical, thermal and magnetic properties of Al13Ru4 decagonal quasicrystalline approximant. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, .	0.4	3
23	Superconductivity in thermally annealed Ta-Nb-Hf-Zr-Ti high-entropy alloys. Journal of Alloys and Compounds, 2017, 695, 3530-3540.	2.8	92
24	Influence of silver content on rifampicin adsorptivity for magnetite/Ag/rifampicin nanoparticles. Nanotechnology, 2017, 28, 055603.	1.3	18
25	Schottky effect in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>i</mml:mi></mml:math>-Zn-Ag-Sc-Tm icosahedral quasicrystal and its 1/1 Zn-Sc-Tm approximant. Physical Review B, 2016, 93, .	1.1	19
26	Random-anisotropy ferromagnetic state in theCu5Gd0.54Ca0.42intermetallic compound. Physical Review B, 2016, 93, .	1.1	3
27	Perpendicular magnetic anisotropy properties of tetragonal Mn 3 Ga films under various deposition conditions. Current Applied Physics, 2016, 16, 63-67.	1.1	12
28	Complex magnetism of Ho-Dy-Y-Gd-Tb hexagonal high-entropy alloy. Physical Review B, 2015, 92, .	1.1	72
29	Physical properties of the GaPd2 intermetallic catalyst in bulk and nanoparticle morphology. Intermetallics, 2015, 67, 35-46.	1.8	5
30	Coronary stent as a tubular flow heater in magnetic resonance imaging. Journal of Analytical Science and Technology, 2015, 6, .	1.0	44
31	Method for Storing Digital Information and Storage Element: A Thermal Memory Cell. Recent Patents on Materials Science, 2015, 8, 119-128.	0.5	0
32	Synthesis and Magnetic Properties of Hematite Particles in a â€œNanomedusaâ€•Morphology. Journal of Nanomaterials, 2014, 2014, 1-9.	1.5	12
33	Electronic density of states and metastability of icosahedral Auâ€“Alâ€“Yb quasicrystal. Journal of Alloys and Compounds, 2014, 586, 343-348.	2.8	14
34	Discovery of a Superconducting High-Entropy Alloy. Physical Review Letters, 2014, 113, 107001.	2.9	360
35	Physical properties of the InPd intermetallic catalyst. Intermetallics, 2014, 55, 56-65.	1.8	31
36	Quantitative determination of magnetic force on a coronary stent in MRI. Journal of Magnetic Resonance Imaging, 2013, 37, 391-397.	1.9	7

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37	NMR Study of Molecular Dynamics in Complex Metal Borohydride LiZn₂(BH₄)₅. Journal of Physical Chemistry C, 2013, 117, 21139-21147.	1.5	14
38	Geometrically frustrated magnetism of spins on icosahedral clusters: The Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Au<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>13</mml:mn></mml:msub></mml:math>Sn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>4</mml:mn><.	1.1	18
39	Intrinsic anisotropic magnetic, electrical, and thermal transport properties ofd-Al-Co-Ni decagonal quasicrystals. Physical Review B, 2012, 85, .	1.1	9
40	Electrical, magnetic, and thermal properties of theÎ´-FeZn10complex intermetallic phase. Physical Review B, 2012, 86, .	1.1	13
41	Electrical and thermal transport properties of icosahedral and decagonal quasicrystals. Chemical Society Reviews, 2012, 41, 6730.	18.7	41
42	Canted antiferromagnetism on a nanodimensional spherical surface geometry: The case of MnCO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>small hollow nanospheres. Physical Review B, 2012, 86, .	1.1	4
43	Spin-glass properties of quasicrystals and complex metallic alloys. Journal of Analytical Science and Technology, 2012, 3, .	1.0	1
44	Magnetic properties of FeAl<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>and Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>42</mml:mn></mml:msub></mml:math>In<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>42</mml:mn></mml:msub></mml:math>Yb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>42</mml:mn></mml:msub></mml:math>	1.1	25
45	Decagonal Quasicrystals and Approximants: Twoâ€Dimensional or Threeâ€Dimensional Solids?. Israel Journal of Chemistry, 2011, 51, 1246-1256.	1.1	15
46	Single crystal growth of Al-based intermetallic phases being approximants to quasicrystals. Journal of Crystal Growth, 2011, 318, 1016-1020.	1.0	7
47	Magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">ÏƒÏ‡<mml:mi>Ïƒ</mml:mi></mml:math>- and hexagonal-Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">><mml:msub><mml:mrow /><mml:mn>76</mml:mn></mml:msub></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">><mml:msub><mml:mrow /><mml:mn>18</mml:mn></mml:msub></mml:math>Cr<mml:math xmlns:mml="http://www.w3.org/1998/	0.7	14
48	Electrical resistivity of the Ï¼-Al4Mn giant-unit-cell complex metallic alloy. Philosophical Magazine, 2011, 91, 2756-2764.	1.1	7
49	Slow-charge-carrier electronic transport in the heavy-fermion complex intermetallic. Solid State Communications, 2010, 150, 1629-1632.	0.7	2
50	The effect of thermal treatment on the magnetic state and cluster-related disorder of icosahedral Alâ€“Pdâ€“Mn quasicrystals. Intermetallics, 2010, 18, 623-632.	0.9	5
51	Physical properties of Zr50Cu40â^'xAl10Pdx bulk glassy alloys. Journal of Alloys and Compounds, 2010, 504, 16-21.	1.8	6
52	Phonon-enhanced thermoelectric power of Yâ€“Alâ€“Niâ€“Co decagonal approximant. Zeitschrift Fur Kristallographie - Crystalline Materials, 2009, 224, 64-66.	2.8	7
53	Hall effect in Taylor-phase and decagonal Al3(Mn,Fe) complex intermetallics. Zeitschrift Fur Kristallographie - Crystalline Materials, 2009, 224, 49-52.	0.4	3
54		0.4	3

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55	Origin of the Hall-coefficient anisotropy in the Yâ€“Alâ€“Niâ€“Co periodic approximant to the decagonal phase. Solid State Communications, 2009, 149, 515-518.	0.9	16
56	Magnetic and EPR study of ferric green rust- and ferrihydrite-coated sand prepared by different synthesis routes. Journal Physics D: Applied Physics, 2009, 42, 245301.	1.3	7
57	The influence of thermal annealing on structural order in the Î¼-Al4Mn complex intermetallic. Zeitschrift Fur Kristallographie - Crystalline Materials, 2009, 224, 42-44.	0.4	1
58	Anisotropic electrical and thermal conductivities of the Al₇₆Co₂₂Ni₂ decagonal approximant. Zeitschrift Fur Kristallographie - Crystalline Materials, 2009, 224, 56-58.	0.4	6
59	Characterization of a ternary Alâ€“Pdâ€“Rh alloy. Materials Characterization, 2008, 59, 1594-1599.	1.9	1
60	Anisotropic electrical, magnetic and thermal transport properties of the Al₈₀Cr₁₅Fe₅decagonal approximant. Philosophical Magazine, 2008, 88, 2145-2153.	0.7	16
61	Anomalous electronic transport in Î¾â€²-Alâ€“Pdâ€“Mn complex metallic alloy studied by spectral conductivity analysis. Journal of Physics Condensed Matter, 2007, 19, 176212.	0.7	9
62	Electrical, magnetic, thermal and thermoelectric properties of the â€œBergman phaseâ€•Mg32(Al,Zn)49 complex metallic alloy. Journal of Alloys and Compounds, 2007, 430, 29-38.	2.8	21
63	High-field ESR in a two-dimensional S=1 spin system Ni5(TeO3)4Br2. Journal of Magnetism and Magnetic Materials, 2007, 316, e349-e351.	1.0	11
64	Model of rotational tunneling in quasicrystals of the Cd6Yb parent compound. Journal of Alloys and Compounds, 2006, 421, 72-79.	2.8	3
65	Searching for magnetic frustration-like properties in tetrahedral spin systems Cu2Te2O5(Br1âˆ’xClx)2. Physica B: Condensed Matter, 2006, 382, 209-212.	1.3	0
66	Physical properties of the complex metallic alloy phases in the Alâ€“Pdâ€“Mn system. Philosophical Magazine, 2006, 86, 671-678.	0.7	2
67	Magnetic and electrical investigations of Fe85-xCoxB15 metallic glasses. Applied Physics A: Materials Science and Processing, 2004, 79, 1947-1953.	1.1	3
68	Deposition and characterisation of Alâ€“Cuâ€“Fe thin films. Thin Solid Films, 2004, 459, 267-270.	0.8	15
69	Magnetic properties of Tbâ€“Mgâ€“Zn and Tbâ€“Mgâ€“Cd quasicrystals in comparison with canonical spin glasses. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 597-598.	1.0	1
70	NMR methods for detection of slow atomic motions in quasicrystals. Journal of Non-Crystalline Solids, 2004, 334-335, 280-286.	1.5	2
71	NMR-melting-curve study of bitumen of different types and origin. Applied Magnetic Resonance, 2003, 24, 13-23.	0.6	3
72	Amorphization of Al32Ge68 in a slow heating run studied by NMR. Journal of Non-Crystalline Solids, 2003, 320, 187-194.	1.5	1

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73	Slater Ice Rules and H-Bond Dynamics in KDP-Type Systems. Physical Review Letters, 2002, 88, 195501.	2.9	21
74	EXAFS study of the Fe local environment in icosahedral AlCuFe and its relation to magnetism of quasicrystals. Solid State Communications, 2002, 123, 527-530.	0.9	11
75	Protonic conductivity in KH2PO4 family studied by NMR. Solid State Ionics, 1999, 125, 159-162.	1.3	8
76	Determination of regional cerebral oxygen consumption in the human:¹⁷O Natural abundance cerebral Magnetic Resonance Imaging and spectroscopy in a whole body system[*]. Neurological Research, 1993, 15, 237-248.	0.6	41
77	Isotope effect, pressure dependence and random field smearing of the proton glass transition. Ferroelectrics, 1988, 78, 27-41.	0.3	13