

Janez Dolinsek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

940
citations

15
h-index

28
g-index

80
ext. papers

1,120
ext. citations

4.2
avg, IF

3.9
L-index

#	Paper	IF	Citations
74	Discovery of a superconducting high-entropy alloy. <i>Physical Review Letters</i> , 2014 , 113, 107001	7.4	239
73	Superconductivity in thermally annealed Ta-Nb-Hf-Zr-Ti high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 3530-3540	5.7	62
72	Complex magnetism of Ho-Dy-Y-Gd-Tb hexagonal high-entropy alloy. <i>Physical Review B</i> , 2015 , 92,	3.3	51
71	Determination of regional cerebral oxygen consumption in the human: 17O natural abundance cerebral magnetic resonance imaging and spectroscopy in a whole body system. <i>Neurological Research</i> , 1993 , 15, 237-48	2.7	37
70	Electrical and thermal transport properties of icosahedral and decagonal quasicrystals. <i>Chemical Society Reviews</i> , 2012 , 41, 6730-44	58.5	30
69	Magnetism of CoCrFeNiZrx eutectic high-entropy alloys. <i>Intermetallics</i> , 2018 , 93, 122-133	3.5	30
68	Physical properties of the InPd intermetallic catalyst. <i>Intermetallics</i> , 2014 , 55, 56-65	3.5	27
67	Coronary stent as a tubular flow heater in magnetic resonance imaging. <i>Journal of Analytical Science and Technology</i> , 2015 , 6, 1	3.4	24
66	Magnetic properties of FeAl ₂ and Fe ₂ Al ₅ . <i>Physical Review B</i> , 2011 , 83,	3.3	21
65	Slater ice rules and H-bond dynamics in KDP-type systems. <i>Physical Review Letters</i> , 2002 , 88, 195501	7.4	20
64	Electrical, magnetic, thermal and thermoelectric properties of the Bergman phase Mg ₃₂ (Al,Zn) ₄₉ complex metallic alloy. <i>Journal of Alloys and Compounds</i> , 2007 , 430, 29-38	5.7	19
63	Molecular dynamics of 1-ethyl-3-methylimidazolium triflate ionic liquid studied by H and F nuclear magnetic resonances. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15368-15376	3.6	18
62	Discovery of a FeCoNiPdCu High-Entropy Alloy with Excellent Magnetic Softness. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801055	3.5	17
61	Origin of the Hall-coefficient anisotropy in the YAlNiCo periodic approximant to the decagonal phase. <i>Solid State Communications</i> , 2009 , 149, 515-518	1.6	16
60	Anisotropic electrical, magnetic and thermal transport properties of the Al ₈₀ Cr ₁₅ Fe ₅ decagonal approximant. <i>Philosophical Magazine</i> , 2008 , 88, 2145-2153	1.6	15
59	Influence of silver content on rifampicin adsorptivity for magnetite/Ag/rifampicin nanoparticles. <i>Nanotechnology</i> , 2017 , 28, 055603	3.4	13
58	NMR Study of Molecular Dynamics in Complex Metal Borohydride LiZn ₂ (BH ₄) ₅ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21139-21147	3.8	13

57	Electrical, magnetic, and thermal properties of the single-grain Ag ₄₂ In ₄₂ Yb ₁₆ icosahedral quasicrystal: Experiment and modeling. <i>Physical Review B</i> , 2011 , 84,	3.3	13
56	Isotope effect, pressure dependence and random field smearing of the proton glass transition. <i>Ferroelectrics</i> , 1988 , 78, 27-41	0.6	13
55	Single crystal growth of Al-based intermetallic phases being approximants to quasicrystals. <i>Journal of Crystal Growth</i> , 2011 , 318, 1016-1020	1.6	12
54	Schottky effect in the i-Zn-Ag-Sc-Tm icosahedral quasicrystal and its 1/1 Zn-Sc-Tm approximant. <i>Physical Review B</i> , 2016 , 93,	3.3	11
53	High-field ESR in a two-dimensional S=1 spin system Ni ₅ (TeO ₃) ₄ Br ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e349-e351	2.8	11
52	EXAFS study of the Fe local environment in icosahedral AlCuFe and its relation to magnetism of quasicrystals. <i>Solid State Communications</i> , 2002 , 123, 527-530	1.6	11
51	Disordered ferromagnetic state in the Ce-Gd-Tb-Dy-Ho hexagonal high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 877-886	5.7	11
50	Perpendicular magnetic anisotropy properties of tetragonal Mn ₃ Ga films under various deposition conditions. <i>Current Applied Physics</i> , 2016 , 16, 63-67	2.6	10
49	Electronic density of states and metastability of icosahedral Au ₁ Al ₁₃ b quasicrystal. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 343-348	5.7	10
48	Electrical, magnetic, and thermal properties of the FeZn ₁₀ complex intermetallic phase. <i>Physical Review B</i> , 2012 , 86,	3.3	10
47	Geometrically frustrated magnetism of spins on icosahedral clusters: The Gd ₃ Au ₁₃ Sn ₄ quasicrystalline approximant. <i>Physical Review B</i> , 2013 , 88,	3.3	10
46	Deposition and characterisation of AlCuBe thin films. <i>Thin Solid Films</i> , 2004 , 459, 267-270	2.2	10
45	Magnetic phase diagram and magnetoresistance of Gd ₃ TbDyHoLu hexagonal high-entropy alloy. <i>Intermetallics</i> , 2019 , 105, 163-172	3.5	10
44	Intrinsic anisotropic magnetic, electrical, and thermal transport properties of d-Al-Co-Ni decagonal quasicrystals. <i>Physical Review B</i> , 2012 , 85,	3.3	9
43	Anomalous electronic transport in Al-Pd-Mn complex metallic alloy studied by spectral conductivity analysis. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 176212	1.8	9
42	Resolving Dirac electrons with broadband high-resolution NMR. <i>Nature Communications</i> , 2020 , 11, 1285	17.4	8
41	Synthesis and Magnetic Properties of Hematite Particles in a Nanomedusa Morphology. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-9	3.2	8
40	Physical properties of Zr ₅₀ Cu ₄₀ Al ₁₀ Pdx bulk glassy alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 504, 16-21	5.7	7

39	Magnetic properties of $\sqrt{3}$ and hexagonal-Mn ₇₆ Si ₁₈ Cr ₆ approximant phases of a dodecagonal quasicrystal. <i>Physical Review B</i> , 2011 , 84,	3-3	7
38	Protonic conductivity in KH ₂ PO ₄ family studied by NMR. <i>Solid State Ionics</i> , 1999 , 125, 159-162	3-3	7
37	The effect of surface oxidation on the catalytic properties of Ga ₃ Ni ₂ intermetallic compound for carbon dioxide reduction. <i>Journal of Analytical Science and Technology</i> , 2018 , 9,	3-4	7
36	Quantitative determination of magnetic force on a coronary stent in MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 391-7	5.6	6
35	Decagonal Quasicrystals and Approximants: Two-Dimensional or Three-Dimensional Solids?. <i>Israel Journal of Chemistry</i> , 2011 , 51, 1246-1256	3-4	6
34	The effect of thermal treatment on the magnetic state and cluster-related disorder of icosahedral AlPdMn quasicrystals. <i>Intermetallics</i> , 2010 , 18, 623-632	3-5	6
33	Reorientational Motions and Ionic Conductivity in (NH ₄) ₂ B ₁₀ H ₁₀ and (NH ₄) ₂ B ₁₂ H ₁₂ . <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17073-17079	3.8	6
32	Physical properties of the GaPd ₂ intermetallic catalyst in bulk and nanoparticle morphology. <i>Intermetallics</i> , 2015 , 67, 35-46	3-5	5
31	Magnetic and EPR study of ferric green rust- and ferrihydrite-coated sand prepared by different synthesis routes. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 245301	3	5
30	Slow-charge-carrier electronic transport in the heavy-fermion complex intermetallic. <i>Solid State Communications</i> , 2010 , 150, 1629-1632	1.6	5
29	Anisotropic electrical and thermal conductivities of the Al ₇₆ Co ₂₂ Ni ₂ decagonal approximant. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2009 , 224, 56-58	1	5
28	Anisotropic electrical, thermal and magnetic properties of Al ₁₃ Ru ₄ decagonal quasicrystalline approximant. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017 , 232,	1	3
27	Random-anisotropy ferromagnetic state in the Cu ₅ Gd _{0.54} Ca _{0.42} intermetallic compound. <i>Physical Review B</i> , 2016 , 93,	3-3	3
26	Phonon-enhanced thermoelectric power of YAlNiCo decagonal approximant. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2009 , 224, 64-66	1	3
25	Hall effect in Taylor-phase and decagonal Al ₃ (Mn,Fe) complex intermetallics. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2009 , 224, 49-52	1	3
24	Model of rotational tunneling in quasicrystals of the Cd ₆ Yb parent compound. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 72-79	5-7	3
23	Magnetic and electrical investigations of Fe _{85-x} CoxB ₁₅ metallic glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 1947-1953	2.6	3
22	NMR-melting-curve study of bitumen of different types and origin. <i>Applied Magnetic Resonance</i> , 2003 , 24, 13-23	0.8	3

21	NMR spectroscopy-supported design and properties of air lime-white cement injection grouts for strengthening of historical masonry buildings. <i>Construction and Building Materials</i> , 2020 , 250, 118937	6.7	3
20	Canted antiferromagnetism on a nanodimensional spherical surface geometry: The case of MnCO ₃ small hollow nanospheres. <i>Physical Review B</i> , 2012 , 86,	3.3	2
19	Electrical resistivity of the FeAl_4Mn giant-unit-cell complex metallic alloy. <i>Philosophical Magazine</i> , 2011 , 91, 2756-2764	1.6	2
18	Physical properties of the complex metallic alloy phases in the AlPdMn system. <i>Philosophical Magazine</i> , 2006 , 86, 671-678	1.6	2
17	NMR methods for detection of slow atomic motions in quasicrystals. <i>Journal of Non-Crystalline Solids</i> , 2004 , 334-335, 280-286	3.9	2
16	Collective magnetism of a single-crystalline nanocomposite FeCoCrMnAl high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 864, 158115	5.7	2
15	Anisotropic Physical Properties of Complex Metallic Alloys 2010 , 117-153		1
14	The influence of thermal annealing on structural order in the FeAl_4Mn complex intermetallic. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2009 , 224, 42-44	1	1
13	Characterization of a ternary AlPdRh alloy. <i>Materials Characterization</i> , 2008 , 59, 1594-1599	3.9	1
12	Magnetic properties of TbMgZn and TbMgCd quasicrystals in comparison with canonical spin glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 597-598	2.8	1
11	Amorphization of $\text{Al}_{32}\text{Ge}_{68}$ in a slow heating run studied by NMR. <i>Journal of Non-Crystalline Solids</i> , 2003 , 320, 187-194	3.9	1
10	Structural Model and Spin-Glass Magnetism of the CeAuGe Quasicrystalline Approximant. <i>Inorganic Chemistry</i> , 2021 , 60, 2526-2532	5.1	1
9	Electronic transport properties of the AlTiZrPdCuNi alloy in the high-entropy alloy and metallic glass forms.. <i>Scientific Reports</i> , 2022 , 12, 2271	4.9	0
8	Anisotropic quantum critical point in the Ce_3Al system with a large magnetic anisotropy. <i>Journal of Physics Communications</i> , 2020 , 4, 105016	1.2	0
7	Nanostructure and local polymorphism in FeAl -like f -rare-earths-based high-entropy alloys. <i>Materials Characterization</i> , 2021 , 172, 110837	3.9	0
6	Structure and Spin-Glass Magnetism of the MnNiZn Pseudobinary β Brasses at Low Mn Contents. <i>Inorganic Chemistry</i> , 2021 , 60, 12226-12236	5.1	0
5	Anisotropic Electrical, Magnetic, and Thermal Properties of In_3Ni_2 Intermetallic Catalyst. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020 , 646, 1099-1104	1.3	
4	Correlative SEM techniques for resolving complex microstructure of CoCrFeNiZr_x High Entropy Alloys 2016 , 726-727		

- 3 Searching for magnetic frustration-like properties in tetrahedral spin systems
 $\text{Cu}_2\text{Te}_2\text{O}_5(\text{Br}_x\text{Cl}_{1-x})_2$. *Physica B: Condensed Matter*, **2006**, 382, 209-212 2.8
- 2 Electronic transport properties of complex intermetallics **2018**, 261-278
- 1 Superconductivity in High-Entropy and Medium-Entropy Alloys From the Ti-Zr-Nb-Sn-Hf-Ta System
2022, 500-510