

# Janez Dolinsek

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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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	Electronic transport properties of the AlTiZrPdCuNi alloy in the high-entropy alloy and metallic glass forms.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2271	4.9	0
73	Superconductivity in High-Entropy and Medium-Entropy Alloys From the Ti-Zr-Nb-Sn-Hf-Ta System <b>2022</b> , 500-510		
72	Collective magnetism of a single-crystalline nanocomposite FeCoCrMnAl high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 864, 158115	5.7	2
71	Nanostructure and local polymorphism in ideal-like rare-earths-based high-entropy alloys. <i>Materials Characterization</i> , <b>2021</b> , 172, 110837	3.9	0
70	Structural Model and Spin-Glass Magnetism of the CeAuGe Quasicrystalline Approximant. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 2526-2532	5.1	1
69	Structure and Spin-Glass Magnetism of the MnNiZn Pseudobinary B-Brasses at Low Mn Contents. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12226-12236	5.1	0
68	Anisotropic Electrical, Magnetic, and Thermal Properties of In <sub>3</sub> Ni <sub>2</sub> Intermetallic Catalyst. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2020</b> , 646, 1099-1104	1.3	
67	Resolving Dirac electrons with broadband high-resolution NMR. <i>Nature Communications</i> , <b>2020</b> , 11, 1285	17.4	8
66	Anisotropic quantum critical point in the Ce <sub>3</sub> Al system with a large magnetic anisotropy. <i>Journal of Physics Communications</i> , <b>2020</b> , 4, 105016	1.2	0
65	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> , <b>2020</b> , 250, 118937	6.7	3
64	Discovery of a FeCoNiPdCu High-Entropy Alloy with Excellent Magnetic Softness. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1801055	3.5	17
63	Magnetic phase diagram and magnetoresistance of Gd <sub>10</sub> Tb <sub>10</sub> Dy <sub>10</sub> Ho <sub>10</sub> Lu hexagonal high-entropy alloy. <i>Intermetallics</i> , <b>2019</b> , 105, 163-172	3.5	10
62	Magnetism of CoCrFeNiZrx eutectic high-entropy alloys. <i>Intermetallics</i> , <b>2018</b> , 93, 122-133	3.5	30
61	The effect of surface oxidation on the catalytic properties of Ga <sub>3</sub> Ni <sub>2</sub> intermetallic compound for carbon dioxide reduction. <i>Journal of Analytical Science and Technology</i> , <b>2018</b> , 9,	3.4	7
60	Electronic transport properties of complex intermetallics <b>2018</b> , 261-278		
59	Disordered ferromagnetic state in the Ce-Gd-Tb-Dy-Ho hexagonal high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 742, 877-886	5.7	11
58	Reorientational Motions and Ionic Conductivity in (NH <sub>4</sub> ) <sub>2</sub> B <sub>10</sub> H <sub>10</sub> and (NH <sub>4</sub> ) <sub>2</sub> B <sub>12</sub> H <sub>12</sub> . <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 17073-17079	3.8	6

57	Molecular dynamics of 1-ethyl-3-methylimidazolium triflate ionic liquid studied by H and F nuclear magnetic resonances. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15368-15376	3.6	18
56	Anisotropic electrical, thermal and magnetic properties of Al <sub>13</sub> Ru <sub>4</sub> decagonal quasicrystalline approximant. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2017</b> , 232,	1	3
55	Superconductivity in thermally annealed Ta-Nb-Hf-Zr-Ti high-entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 3530-3540	5.7	62
54	Influence of silver content on rifampicin adsorptivity for magnetite/Ag/rifampicin nanoparticles. <i>Nanotechnology</i> , <b>2017</b> , 28, 055603	3.4	13
53	Schottky effect in the i-Zn-Ag-Sc-Tm icosahedral quasicrystal and its 1/1 Zn-Sc-Tm approximant. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	11
52	Random-anisotropy ferromagnetic state in the Cu <sub>5</sub> Gd <sub>0.54</sub> Ca <sub>0.42</sub> intermetallic compound. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	3
51	Correlative SEM techniques for resolving complex microstructure of CoCrFeNiZrx High Entropy Alloys <b>2016</b> , 726-727		
50	Perpendicular magnetic anisotropy properties of tetragonal Mn <sub>3</sub> Ga films under various deposition conditions. <i>Current Applied Physics</i> , <b>2016</b> , 16, 63-67	2.6	10
49	Physical properties of the GaPd <sub>2</sub> intermetallic catalyst in bulk and nanoparticle morphology. <i>Intermetallics</i> , <b>2015</b> , 67, 35-46	3.5	5
48	Coronary stent as a tubular flow heater in magnetic resonance imaging. <i>Journal of Analytical Science and Technology</i> , <b>2015</b> , 6, 1	3.4	24
47	Complex magnetism of Ho-Dy-Y-Gd-Tb hexagonal high-entropy alloy. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	51
46	Electronic density of states and metastability of icosahedral Au <sub>13</sub> Al <sub>7</sub> B quasicrystal. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, 343-348	5.7	10
45	Discovery of a superconducting high-entropy alloy. <i>Physical Review Letters</i> , <b>2014</b> , 113, 107001	7.4	239
44	Physical properties of the InPd intermetallic catalyst. <i>Intermetallics</i> , <b>2014</b> , 55, 56-65	3.5	27
43	Synthesis and Magnetic Properties of Hematite Particles in a Nanomedusa Morphology. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-9	3.2	8
42	Quantitative determination of magnetic force on a coronary stent in MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 37, 391-7	5.6	6
41	NMR Study of Molecular Dynamics in Complex Metal Borohydride LiZn <sub>2</sub> (BH <sub>4</sub> ) <sub>5</sub> . <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 21139-21147	3.8	13
40	Geometrically frustrated magnetism of spins on icosahedral clusters: The Gd <sub>3</sub> Au <sub>13</sub> Sn <sub>4</sub> quasicrystalline approximant. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	10

39	Electrical, magnetic, and thermal properties of the $\text{FeZn}_{10}$ complex intermetallic phase. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	10
38	Electrical and thermal transport properties of icosahedral and decagonal quasicrystals. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 6730-44	58.5	30
37	Canted antiferromagnetism on a nanodimensional spherical surface geometry: The case of $\text{MnCO}_3$ small hollow nanospheres. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	2
36	Intrinsic anisotropic magnetic, electrical, and thermal transport properties of d-Al-Co-Ni decagonal quasicrystals. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	9
35	Electrical, magnetic, and thermal properties of the single-grain $\text{Ag}_{42}\text{In}_{42}\text{Yb}_{16}$ icosahedral quasicrystal: Experiment and modeling. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	13
34	Decagonal Quasicrystals and Approximants: Two-Dimensional or Three-Dimensional Solids?. <i>Israel Journal of Chemistry</i> , <b>2011</b> , 51, 1246-1256	3.4	6
33	Magnetic properties of $\text{FeAl}_2$ and $\text{Fe}_2\text{Al}_5$ . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	21
32	Single crystal growth of Al-based intermetallic phases being approximants to quasicrystals. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 1016-1020	1.6	12
31	Magnetic properties of $\text{Fe}$ and hexagonal- $\text{Mn}_{76}\text{Si}_{18}\text{Cr}_6$ approximant phases of a dodecagonal quasicrystal. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	7
30	Electrical resistivity of the $\text{FeAl}_4\text{Mn}$ giant-unit-cell complex metallic alloy. <i>Philosophical Magazine</i> , <b>2011</b> , 91, 2756-2764	1.6	2
29	Anisotropic Physical Properties of Complex Metallic Alloys <b>2010</b> , 117-153		1
28	The effect of thermal treatment on the magnetic state and cluster-related disorder of icosahedral $\text{AlPdMn}$ quasicrystals. <i>Intermetallics</i> , <b>2010</b> , 18, 623-632	3.5	6
27	Physical properties of $\text{Zr}_{50}\text{Cu}_{40}$ $\text{Al}_{10}\text{Pdx}$ bulk glassy alloys. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, 16-21	5.7	7
26	Slow-charge-carrier electronic transport in the heavy-fermion complex intermetallic. <i>Solid State Communications</i> , <b>2010</b> , 150, 1629-1632	1.6	5
25	Phonon-enhanced thermoelectric power of $\text{YAlNiCo}$ decagonal approximant. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2009</b> , 224, 64-66	1	3
24	Hall effect in Taylor-phase and decagonal $\text{Al}_3(\text{Mn,Fe})$ complex intermetallics. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2009</b> , 224, 49-52	1	3
23	Origin of the Hall-coefficient anisotropy in the $\text{YAlNiCo}$ periodic approximant to the decagonal phase. <i>Solid State Communications</i> , <b>2009</b> , 149, 515-518	1.6	16
22	Magnetic and EPR study of ferric green rust- and ferrihydrite-coated sand prepared by different synthesis routes. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 245301	3	5

21	The influence of thermal annealing on structural order in the $\text{Al}_4\text{Mn}$ complex intermetallic. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2009</b> , 224, 42-44	1	1
20	Anisotropic electrical and thermal conductivities of the $\text{Al}_{76}\text{Co}_{22}\text{Ni}_2$ decagonal approximant. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2009</b> , 224, 56-58	1	5
19	Characterization of a ternary $\text{AlPdRh}$ alloy. <i>Materials Characterization</i> , <b>2008</b> , 59, 1594-1599	3.9	1
18	Anisotropic electrical, magnetic and thermal transport properties of the $\text{Al}_{80}\text{Cr}_{15}\text{Fe}_5$ decagonal approximant. <i>Philosophical Magazine</i> , <b>2008</b> , 88, 2145-2153	1.6	15
17	High-field ESR in a two-dimensional $S=1$ spin system $\text{Ni}_5(\text{TeO}_3)_4\text{Br}_2$ . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e349-e351	2.8	11
16	Anomalous electronic transport in $\text{Al-Pd-Mn}$ complex metallic alloy studied by spectral conductivity analysis. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 176212	1.8	9
15	Electrical, magnetic, thermal and thermoelectric properties of the Bergman phase $\text{Mg}_{32}(\text{Al,Zn})_{49}$ complex metallic alloy. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 430, 29-38	5.7	19
14	Physical properties of the complex metallic alloy phases in the $\text{AlPdMn}$ system. <i>Philosophical Magazine</i> , <b>2006</b> , 86, 671-678	1.6	2
13	Model of rotational tunneling in quasicrystals of the $\text{Cd}_6\text{Yb}$ parent compound. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 421, 72-79	5.7	3
12	Searching for magnetic frustration-like properties in tetrahedral spin systems $\text{Cu}_2\text{Te}_2\text{O}_5(\text{Br}_1\text{Cl}_x)_2$ . <i>Physica B: Condensed Matter</i> , <b>2006</b> , 382, 209-212	2.8	
11	Magnetic and electrical investigations of $\text{Fe}_{85-x}\text{Co}_x\text{B}_{15}$ metallic glasses. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 79, 1947-1953	2.6	3
10	Deposition and characterisation of $\text{AlCuBe}$ thin films. <i>Thin Solid Films</i> , <b>2004</b> , 459, 267-270	2.2	10
9	Magnetic properties of $\text{TbMgZn}$ and $\text{TbMgCd}$ quasicrystals in comparison with canonical spin glasses. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 597-598	2.8	1
8	NMR methods for detection of slow atomic motions in quasicrystals. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 334-335, 280-286	3.9	2
7	NMR-melting-curve study of bitumen of different types and origin. <i>Applied Magnetic Resonance</i> , <b>2003</b> , 24, 13-23	0.8	3
6	Amorphization of $\text{Al}_{32}\text{Ge}_{68}$ in a slow heating run studied by NMR. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 320, 187-194	3.9	1
5	EXAFS study of the Fe local environment in icosahedral $\text{AlCuFe}$ and its relation to magnetism of quasicrystals. <i>Solid State Communications</i> , <b>2002</b> , 123, 527-530	1.6	11
4	Slater ice rules and H-bond dynamics in KDP-type systems. <i>Physical Review Letters</i> , <b>2002</b> , 88, 195501	7.4	20

3	Protonic conductivity in KH <sub>2</sub> PO <sub>4</sub> family studied by NMR. <i>Solid State Ionics</i> , <b>1999</b> , 125, 159-162	3.3	7
2	Determination of regional cerebral oxygen consumption in the human: <sup>17</sup> O natural abundance cerebral magnetic resonance imaging and spectroscopy in a whole body system. <i>Neurological Research</i> , <b>1993</b> , 15, 237-48	2.7	37
1	Isotope effect, pressure dependence and random field smearing of the proton glass transition. <i>Ferroelectrics</i> , <b>1988</b> , 78, 27-41	0.6	13