

# Robert Pelka

## List of Publications by Year in Descending Order

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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.

76  
papers

1,035  
citations

18  
h-index

30  
g-index

81  
ext. papers

1,143  
ext. citations

3  
avg, IF

3.87  
L-index

#	Paper	IF	Citations
76	Towards rationalizing photoswitchable behavior of Cu <sup>II</sup> Mo <sup>IV</sup> cyanido-bridged molecule. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 168697	2.8	0
75	Engineering of the Magnetic Layered System with Adeninium Cations: Monocrystalline Angle-Resolved Studies of Nonlinear Magnetic Susceptibility. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 10186-10198	5.1	0
74	Anisotropy of Spin Lattice Relaxations in Mononuclear Tb <sup>3+</sup> Single-Molecule Magnets. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 7930-7937	3.8	1
73	Chiral Photomagnets Based on Copper(II) complexes of 1,2-Diaminocyclohexane and Octacyanomolybdate(IV) Ions. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 5872-5882	5.1	6
72	Field Induced versus Local Anisotropy in Single Ion Magnets. <i>Acta Physica Polonica A</i> , <b>2020</b> , 137, 952-954	0.6	0
71	Powder Sample Susceptibility for Single Ion Magnets with S=1,3/2 with Rhombic Anisotropy. <i>Acta Physica Polonica A</i> , <b>2020</b> , 137, 948-951	0.6	0
70	Effective spectroscopic factor of the doublet ground state: A useful tool for comparison with outcome of EPR experiments. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 581, 411960	2.8	0
69	Positive definite distortion term of the extended Landau-de Gennes model. <i>Molecular Crystals and Liquid Crystals</i> , <b>2020</b> , 702, 87-91	0.5	0
68	1D coordination polymer (OPD)CoSO showing SMM behaviour and multiple relaxation modes. <i>Dalton Transactions</i> , <b>2019</b> , 48, 7560-7570	4.3	12
67	Multifunctional Molecular Magnets: Magnetocaloric Effect in Octacyanometallates. <i>Crystals</i> , <b>2019</b> , 9, 9	2.3	15
66	Synthesis, structure and magnetic properties of an unusual oligonuclear iron(III)-cobalt(III) compound with oxido-, sulfato- and cyanido-bridging ligands. <i>Polyhedron</i> , <b>2019</b> , 157, 558-566	2.7	3
65	Dinuclear molecular magnets with unblocked magnetic connectivity: magnetocaloric effect.. <i>RSC Advances</i> , <b>2018</b> , 8, 14640-14645	3.7	3
64	Structure features, thermal analysis, model and experiment magnetic behavior of tetranuclear oxo and sulfato bridged copper (II) aggregate. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 469, 431-439	2.7	7
63	Magnetic percolation in CN-bridged ferrimagnetic coordination polymers. <i>Dalton Transactions</i> , <b>2018</b> , 47, 11438-11444	4.3	5
62	Two-step magnetic transition in hybrid organic/inorganic materials of the (m-xylylenediamine)MeSO <sub>4</sub> (Me [Mn, Fe, Co, Ni] type. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 18225-18235	3.6	1
61	Molecular realizations of 3D Heisenberg magnet: Critical scaling. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 765, 520-526	5.7	3
60	Irradiation Temperature Dependence of the Photomagnetic Mechanisms in a Cyanido-Bridged CuMo Trinuclear Molecule. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 8137-8145	5.1	16

59	Self-Enhancement of Rotating Magnetocaloric Effect in Anisotropic Two-Dimensional (2D) Cyanido-Bridged Mn-Nb Molecular Ferrimagnet. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2777-2783	5.1	11
58	Magnetism of a sigma-phase Fe <sub>60</sub> V <sub>40</sub> alloy: Magnetic susceptibilities and magnetocaloric effect studies. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 432, 430-436	2.8	6
57	Double Magnetic Relaxation and Magnetocaloric Effect in the {Mn[W(CN)](4,4Rdpds)} Cluster-Based Network. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 7089-7098	5.1	10
56	Rotating Magnetocaloric Effect in an Anisotropic Two-Dimensional Cu[W(CN)] Molecular Magnet with Topological Phase Transition: Experiment and Theory. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 11971-11980	5.1	15
55	Synthesis, structure, and magnetic properties of a dinuclear antiferromagnetically coupled iron(II) complex. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1149, 149-154	3.4	11
54	Field-Induced Slow Magnetic Relaxation in Mn <sub>9</sub> W <sub>6</sub> Cluster-Based Compound. <i>Acta Physica Polonica A</i> , <b>2017</b> , 131, 884-886	0.6	
53	Magnetocaloric effect in Mn <sub>2</sub> -pyrazole-[Nb(CN) <sub>8</sub> ] molecular magnet by relaxation calorimetry. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 419, 435-441	2.8	5
52	Photoswitchable CuMo and CuMo cyanido-bridged molecules. <i>Dalton Transactions</i> , <b>2016</b> , 45, 16585-16595	5.3	16
51	Application of orthorhombic standardization in magnetic susceptibility studies of localized spin models with S=1, 3/2, 2, 5/2. <i>Physica B: Condensed Matter</i> , <b>2016</b> , 497, 14-18	2.8	5
50	Magnetocaloric effect of high-spin cluster with Ni <sub>9</sub> W <sub>6</sub> core. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 414, 25-31	2.8	8
49	Relaxation and magnetocaloric effect in the Mn <sub>12</sub> molecular nanomagnet incorporated into mesoporous silica: a comparative study. <i>RSC Advances</i> , <b>2016</b> , 6, 49179-49186	3.7	12
48	Thermal properties of [Cr(NH <sub>3</sub> ) <sub>6</sub> ](BF <sub>4</sub> ) <sub>3</sub> studied by adiabatic and relaxation calorimetry. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 89, 223-227	2.9	
47	A novel hexanuclear Cu <sub>4</sub> Co <sub>2</sub> cluster obtained from heterotrinary building blocks. <i>Inorganic Chemistry Communication</i> , <b>2015</b> , 54, 81-84	3.1	2
46	Magnetocaloric effect and critical behavior in Mn <sub>2</sub> -imidazole-[Nb(CN) <sub>8</sub> ] molecular magnetic sponge. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 396, 1-8	2.8	10
45	The first example of erbium triple-stranded helicates displaying SMM behaviour. <i>Dalton Transactions</i> , <b>2015</b> , 44, 16833-9	4.3	23
44	Magnetic properties of copper dimolybdate CuMo <sub>2</sub> O <sub>7</sub> ·BH <sub>2</sub> O. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 362, 180-183	2.8	
43	Magnetocaloric effect in molecular magnet. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 354, 359-362	2.8	16
42	Heterometallic trinuclear 3d <sup>n</sup> f <sup>m</sup> d compounds based on a hexadentate Schiff base ligand. <i>Polyhedron</i> , <b>2014</b> , 68, 180-190	2.7	20

41	A heterometallic Ni <sub>2</sub> Gd <sub>2</sub> complex : Synthesis, structure and magnetic properties. <i>Inorganic Chemistry Communication</i> , <b>2014</b> , 46, 94-97	3.1	4
40	Hysteresis Effect in Mean-Field Model. <i>Acta Physica Polonica A</i> , <b>2014</b> , 126, 28-29	0.6	
39	Magnetic Properties of Transition Metal Molybdates. <i>Acta Physica Polonica A</i> , <b>2014</b> , 126, 250-251	0.6	0
38	Multifunctionality in bimetallic Ln(III)[W(V)(CN) <sub>8</sub> ] <sub>3</sub> - (Ln = Gd, Nd) coordination helices: optical activity, luminescence, and magnetic coupling. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 7144-59	4.8	47
37	Calorimetric Studies of Octacyanometalate-based Coordination Polymers Displaying Long-range Magnetic Order. <i>Current Inorganic Chemistry</i> , <b>2014</b> , 4, 146-166		2
36	Scaling analysis of [Fe(pyrazole) <sub>4</sub> ] <sub>2</sub> [Nb(CN) <sub>8</sub> ] molecular magnet. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 344, 105-108	2.8	7
35	Magnetocaloric effect and critical behaviour in Mn <sub>2</sub> -pyridazine-[Nb(CN) <sub>8</sub> ] molecular compound under press. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 496012	1.8	7
34	Thermal switching between blue and red luminescence in magnetic chiral cyanido-bridged Eu(III)W(V) coordination helices. <i>RSC Advances</i> , <b>2013</b> , 3, 1065-1068	3.7	26
33	Optimal distribution of temperature points in BR measurement of local field. <i>Physica B: Condensed Matter</i> , <b>2013</b> , 411, 7-11	2.8	
32	Description of isomorphous transformations in materials with various kinds of molecular disorder. <i>Phase Transitions</i> , <b>2013</b> , 86, 238-250	1.3	0
31	Magnetic Systems at Criticality: Different Signatures of Scaling. <i>Acta Physica Polonica A</i> , <b>2013</b> , 124, 977-988		8
30	Structural and magnetic transformations in NdMn <sub>2</sub> H <sub>x</sub> hydrides. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 525, 175-183	5.7	1
29	Magnetocaloric effect in M-pyrazole-[Nb(CN) <sub>8</sub> ] (M = Ni, Mn) molecular compounds. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 506002	1.8	10
28	Magnetocaloric Effect in a Mn <sub>2</sub> -Pyridazine-[Nb(CN) <sub>8</sub> ] Molecular Magnetic Sponge. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 3830-3834	2.3	21
27	Critical behavior of the Mn <sub>2</sub> [Nb(CN) <sub>8</sub> ] molecular magnet. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	6
26	Octacyanonioabate(IV)-based molecular magnets revealing 3D long-range order. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 303, 012037	0.3	0
25	Studies of critical phenomena in molecular magnets by BR spectroscopy. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 303, 012034	0.3	5
24	W-knotted chain {[Cu(II)(dien)] <sub>4</sub> [W(V)(CN) <sub>8</sub> ]} <sub>5+</sub> synthesis, crystal structure, magnetism, and theory. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 3213-22	5.1	18

23	Full Susceptibility Tensor for Localized Spin Models with $S = 1, 3/2, 2, 5/2$ and with Rhombic Anisotropy. <i>Acta Physica Polonica A</i> , <b>2011</b> , 119, 428-436	0.6	5
22	Critical behavior of two molecular magnets probed by complementary experiments. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	11
21	Magnetic properties versus network dimensionality of cerium(III) octacyanotungstate(V) compounds. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 4268-77	5.1	27
20	Entropic Contribution of Flexible Terminals to Mesophase Formation Revealed by Thermodynamic Analysis of 4-Alkyl-4'-isothiocyanatobiphenyl (nTCB). <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4870-4874	3.4	39
19	Nature of magnetic interactions in 3D $\{[M(II)(pyrazole)_4]_2[Nb(IV)(CN)_8] \cdot 4H_2O\}_n$ ( $M = Mn, Fe, Co, Ni$ ) molecular magnets. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7565-76	5.1	48
18	Approximate Approach to Magnetic and Thermodynamic Properties of Mixed Spin (1/2-S) Chains with AB and AB <sub>2</sub> Topology. <i>Acta Physica Polonica A</i> , <b>2010</b> , 118, 959-961	0.6	2
17	Infrared spectroscopic and X-ray studies of the 4-propyl-4'-isothiocyanatobiphenyl (3TCB). <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 7435-42	3.4	26
16	Towards high T <sub>c</sub> octacyanometalate-based networks. <i>CrystEngComm</i> , <b>2009</b> , 11, 2032	3.3	67
15	Iron(II)-octacyanonitobate(IV) ferromagnet with T(C) 43 K. <i>Dalton Transactions</i> , <b>2009</b> , 7771-7	4.3	37
14	Rich polymorphism in 4-propyl-4'-thiocyanato-1,1'-biphenyl (3TCB) revealed by adiabatic calorimetry. <i>Liquid Crystals</i> , <b>2008</b> , 35, 179-186	2.3	16
13	Magnetic ordering in the double-layered molecular magnet Cu(tetren)[W(CN) <sub>8</sub> ]: Single-crystal study. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	27
12	Tuning of magnetic properties of polynuclear lanthanide(III)-octacyanotungstate(V) systems: determination of ligand-field parameters and exchange interaction. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 8924-38	5.1	78
11	Photo-Induced Relaxation of Magnetization in Molecular Magnet. <i>Acta Physica Polonica A</i> , <b>2007</b> , 112, S-183-S-188	0.6	1
10	Perturbative approach to the structure of a planar interface in the Landau-de Gennes model. <i>Physical Review E</i> , <b>2006</b> , 74, 041705	2.4	1
9	[Ln(terpy)] <sup>3+</sup> (Ln = Sm, Gd) entity forms isolated magnetic chains with [W(CN) <sub>8</sub> ] <sup>3-</sup> . <i>Dalton Transactions</i> , <b>2006</b> , 625-8	4.3	59
8	Generalized theoretical approach to quasi-one-dimensional molecular magnets. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 216-219		8
7	An unprecedented copper(I,II)-octacyanotungstate(V) 2-D network: crystal structure and magnetism of [Cu <sup>II</sup> (tren)] <sub>2</sub> [Cu <sup>I</sup> [W(V)(CN) <sub>8</sub> ]] · 1.5H <sub>2</sub> O. <i>Chemical Communications</i> , <b>2005</b> , 2939-41	5.8	35
6	Photo-induced magnetic effects in [Mn <sub>4</sub> TTPP][TCNE] · 2PhMe molecular magnet. <i>Journal of Physics: Conference Series</i> , <b>2005</b> , 21, 237-242	0.3	2

5	AC susceptibility study of the bilayered cyano-bridged CuW and CuMo ferromagnets. <i>Solid State Sciences</i> , <b>2005</b> , 7, 1113-1124	3.4	18
4	Photomagnetic Effects in Mn-Porphyrin Based Molecular Magnet. <i>European Physical Journal D</i> , <b>2004</b> , 54, 543-546		
3	Thermal Properties of the Double-layered Coordination Polymer $\{(tetrenH_5)_{0.8}CuII_4[WV(CN)_8]_{47.2}H_2O\}_n$ at the Transition Point. <i>European Physical Journal D</i> , <b>2004</b> , 54, 595-598		10
2	Crystal structures and magnetic properties of two low-dimensional materials constructed from $[Mn(III)(salen)H_2O]^+$ and $[M(CN)_8]^{3-/4-}$ (M = Mo or W) precursors. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 2967-74 <sup>1</sup>		103
1	Evolution of interfaces and expansion in width. <i>Physical Review E</i> , <b>2000</b> , 62, 6749-59	2.4	9