

Robert Pelka

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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 | Crystal structures and magnetic properties of two low-dimensional materials constructed from [Mn(III)(salen)H ₂ O] ⁺ and [M(CN) ₈](3-/4-) (M = Mo or W) precursors. <i>Inorganic Chemistry</i> , 2004 , 43, 2967-74 | 5.1 | 103 |
| 75 | Tuning of magnetic properties of polynuclear lanthanide(III)-octacyanotungstate(V) systems: determination of ligand-field parameters and exchange interaction. <i>Inorganic Chemistry</i> , 2007 , 46, 8924-38 | 5.1 | 78 |
| 74 | Towards high T _c octacyanometalate-based networks. <i>CrystEngComm</i> , 2009 , 11, 2032 | 3.3 | 67 |
| 73 | [Ln(terpy)] ³⁺ (Ln = Sm, Gd) entity forms isolated magnetic chains with [W(CN) ₈] ³⁻ . <i>Dalton Transactions</i> , 2006 , 625-8 | 4.3 | 59 |
| 72 | Nature of magnetic interactions in 3D {[M(II)(pyrazole) ₄] ₂ [Nb(IV)(CN) ₈].4H ₂ O} _n (M = Mn, Fe, Co, Ni) molecular magnets. <i>Inorganic Chemistry</i> , 2010 , 49, 7565-76 | 5.1 | 48 |
| 71 | Multifunctionality in bimetallic Ln(III)[W(V)(CN) ₈] ³⁻ (Ln = Gd, Nd) coordination helices: optical activity, luminescence, and magnetic coupling. <i>Chemistry - A European Journal</i> , 2014 , 20, 7144-59 | 4.8 | 47 |
| 70 | 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> , 2010 , 114, 4870-4874 | 3.4 | 39 |
| 69 | Iron(II)-octacyanonioabate(IV) ferromagnet with T(C) 43 K. <i>Dalton Transactions</i> , 2009 , 7771-7 | 4.3 | 37 |
| 68 | An unprecedented copper(I,II)-octacyanotungstate(V) 2-D network: crystal structure and magnetism of [Cu ^I (tren)]{Cu ^{II} [W(V)(CN) ₈]} . 1.5H ₂ O. <i>Chemical Communications</i> , 2005 , 2939-41 | 5.8 | 35 |
| 67 | Magnetic properties versus network dimensionality of cerium(III) octacyanotungstate(V) compounds. <i>Inorganic Chemistry</i> , 2010 , 49, 4268-77 | 5.1 | 27 |
| 66 | Magnetic ordering in the double-layered molecular magnet Cu(tetren)[W(CN) ₈]: Single-crystal study. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 27 |
| 65 | Thermal switching between blue and red luminescence in magnetic chiral cyanido-bridged Eu(III)W(V) coordination helices. <i>RSC Advances</i> , 2013 , 3, 1065-1068 | 3.7 | 26 |
| 64 | Infrared spectroscopic and X-ray studies of the 4-propyl-4'-isothiocyanatobiphenyl (3TCB). <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7435-42 | 3.4 | 26 |
| 63 | The first example of erbium triple-stranded helicates displaying SMM behaviour. <i>Dalton Transactions</i> , 2015 , 44, 16833-9 | 4.3 | 23 |
| 62 | Magnetocaloric Effect in a Mn ₂ -Pyridazine-[Nb(CN) ₈] Molecular Magnetic Sponge. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 3830-3834 | 2.3 | 21 |
| 61 | Heterometallic trinuclear 3d ⁸ f ³ d compounds based on a hexadentate Schiff base ligand. <i>Polyhedron</i> , 2014 , 68, 180-190 | 2.7 | 20 |
| 60 | W-knotted chain {[Cu(II)(dien)] ₄ [W(V)(CN) ₈]}(5+) synthesis, crystal structure, magnetism, and theory. <i>Inorganic Chemistry</i> , 2011 , 50, 3213-22 | 5.1 | 18 |

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| 59 | AC susceptibility study of the bilayered cyano-bridged CuW and CuMo ferromagnets. <i>Solid State Sciences</i> , 2005 , 7, 1113-1124 | 3.4 | 18 |
| 58 | Photoswitchable CuMo and CuMo cyanido-bridged molecules. <i>Dalton Transactions</i> , 2016 , 45, 16585-16595 | 3.3 | 16 |
| 57 | Magnetocaloric effect in molecular magnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 354, 359-362 | 2.8 | 16 |
| 56 | Rich polymorphism in 4-propyl-4'-thiocyanato-1,1'-biphenyl (3TCB) revealed by adiabatic calorimetry. <i>Liquid Crystals</i> , 2008 , 35, 179-186 | 2.3 | 16 |
| 55 | Irradiation Temperature Dependence of the Photomagnetic Mechanisms in a Cyanido-Bridged CuMo Trinuclear Molecule. <i>Inorganic Chemistry</i> , 2018 , 57, 8137-8145 | 5.1 | 16 |
| 54 | Rotating Magnetocaloric Effect in an Anisotropic Two-Dimensional Cu[W(CN)] Molecular Magnet with Topological Phase Transition: Experiment and Theory. <i>Inorganic Chemistry</i> , 2017 , 56, 11971-11980 | 5.1 | 15 |
| 53 | Multifunctional Molecular Magnets: Magnetocaloric Effect in Octacyanometallates. <i>Crystals</i> , 2019 , 9, 9 | 2.3 | 15 |
| 52 | 1D coordination polymer (OPD)CoSO showing SMM behaviour and multiple relaxation modes. <i>Dalton Transactions</i> , 2019 , 48, 7560-7570 | 4.3 | 12 |
| 51 | Relaxation and magnetocaloric effect in the Mn ₁₂ molecular nanomagnet incorporated into mesoporous silica: a comparative study. <i>RSC Advances</i> , 2016 , 6, 49179-49186 | 3.7 | 12 |
| 50 | Self-Enhancement of Rotating Magnetocaloric Effect in Anisotropic Two-Dimensional (2D) Cyanido-Bridged Mn-Nb Molecular Ferrimagnet. <i>Inorganic Chemistry</i> , 2017 , 56, 2777-2783 | 5.1 | 11 |
| 49 | Synthesis, structure, and magnetic properties of a dinuclear antiferromagnetically coupled iron(II) complex. <i>Journal of Molecular Structure</i> , 2017 , 1149, 149-154 | 3.4 | 11 |
| 48 | Critical behavior of two molecular magnets probed by complementary experiments. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 11 |
| 47 | Double Magnetic Relaxation and Magnetocaloric Effect in the {Mn[W(CN)](4,4Rdpds)} Cluster-Based Network. <i>Inorganic Chemistry</i> , 2017 , 56, 7089-7098 | 5.1 | 10 |
| 46 | Magnetocaloric effect and critical behavior in Mn ₂ -imidazole-[Nb(CN) ₈] molecular magnetic sponge. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 396, 1-8 | 2.8 | 10 |
| 45 | Magnetocaloric effect in M-pyrazole-[Nb(CN) ₈] (M = Ni, Mn) molecular compounds. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 506002 | 1.8 | 10 |
| 44 | Thermal Properties of the Double-layered Coordination Polymer {(tetrenH ₅) _{0.8} CuII 4[WV(CN) ₈] ₄₇ .2H ₂ O} _n at the Transition Point. <i>European Physical Journal D</i> , 2004 , 54, 595-598 | | 10 |
| 43 | Evolution of interfaces and expansion in width. <i>Physical Review E</i> , 2000 , 62, 6749-59 | 2.4 | 9 |
| 42 | Magnetic Systems at Criticality: Different Signatures of Scaling. <i>Acta Physica Polonica A</i> , 2013 , 124, 977-988 | 3.0 | 8 |

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| 41 | Generalized theoretical approach to quasi-one-dimensional molecular magnets. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 216-219 | | 8 |
| 40 | Magnetocaloric effect of high-spin cluster with Ni ₉ W ₆ core. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 414, 25-31 | 2.8 | 8 |
| 39 | Structure features, thermal analysis, model and experiment magnetic behavior of tetranuclear oxo and sulfato bridged copper (II) aggregate. <i>Inorganica Chimica Acta</i> , 2018 , 469, 431-439 | 2.7 | 7 |
| 38 | Scaling analysis of [Fe(pyrazole) ₄] ₂ [Nb(CN) ₈] molecular magnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 344, 105-108 | 2.8 | 7 |
| 37 | Magnetocaloric effect and critical behaviour in Mn ₂ -pyridazine-[Nb(CN) ₈] molecular compound under press. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 496012 | 1.8 | 7 |
| 36 | Magnetism of a sigma-phase Fe ₆₀ V ₄₀ alloy: Magnetic susceptibilities and magnetocaloric effect studies. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 432, 430-436 | 2.8 | 6 |
| 35 | Chiral Photomagnets Based on Copper(II) complexes of 1,2-Diaminocyclohexane and Octacyanidomolybdate(IV) Ions. <i>Inorganic Chemistry</i> , 2020 , 59, 5872-5882 | 5.1 | 6 |
| 34 | Critical behavior of the Mn ₂ [Nb(CN) ₈] molecular magnet. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 6 |
| 33 | Magnetocaloric effect in Mn ₂ -pyrazole-[Nb(CN) ₈] molecular magnet by relaxation calorimetry. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 419, 435-441 | 2.8 | 5 |
| 32 | 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> , 2016 , 497, 14-18 | 2.8 | 5 |
| 31 | Magnetic percolation in CN-bridged ferrimagnetic coordination polymers. <i>Dalton Transactions</i> , 2018 , 47, 11438-11444 | 4.3 | 5 |
| 30 | Studies of critical phenomena in molecular magnets by BR spectroscopy. <i>Journal of Physics: Conference Series</i> , 2011 , 303, 012034 | 0.3 | 5 |
| 29 | 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> , 2011 , 119, 428-436 | 0.6 | 5 |
| 28 | A heterometallic Ni ₂ Gd ₂ complex : Synthesis, structure and magnetic properties. <i>Inorganic Chemistry Communication</i> , 2014 , 46, 94-97 | 3.1 | 4 |
| 27 | Dinuclear molecular magnets with unblocked magnetic connectivity: magnetocaloric effect.. <i>RSC Advances</i> , 2018 , 8, 14640-14645 | 3.7 | 3 |
| 26 | Synthesis, structure and magnetic properties of an unusual oligonuclear iron(III)-cobalt(III) compound with oxido-, sulfato- and cyanido-bridging ligands. <i>Polyhedron</i> , 2019 , 157, 558-566 | 2.7 | 3 |
| 25 | Molecular realizations of 3D Heisenberg magnet: Critical scaling. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 520-526 | 5.7 | 3 |
| 24 | A novel hexanuclear Cu ₁₄ Gd ₁₁ cluster obtained from heterotrinnuclear building blocks. <i>Inorganic Chemistry Communication</i> , 2015 , 54, 81-84 | 3.1 | 2 |

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| 23 | Photo-induced magnetic effects in [MnR4TPP][TCNE]*2PhMe molecular magnet. <i>Journal of Physics: Conference Series</i> , 2005 , 21, 237-242 | 0.3 | 2 |
| 22 | Approximate Approach to Magnetic and Thermodynamic Properties of Mixed Spin (1/2-S) Chains with AB and AB2 Topology. <i>Acta Physica Polonica A</i> , 2010 , 118, 959-961 | 0.6 | 2 |
| 21 | Calorimetric Studies of Octacyanometalate-based Coordination Polymers Displaying Long-range Magnetic Order. <i>Current Inorganic Chemistry</i> , 2014 , 4, 146-166 | | 2 |
| 20 | Anisotropy of Spin Lattice Relaxations in Mononuclear Tb ³⁺ Single-Molecule Magnets. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7930-7937 | 3.8 | 1 |
| 19 | Structural and magnetic transformations in NdMn ₂ H _x hydrides. <i>Journal of Alloys and Compounds</i> , 2012 , 525, 175-183 | 5.7 | 1 |
| 18 | Perturbative approach to the structure of a planar interface in the Landau-de Gennes model. <i>Physical Review E</i> , 2006 , 74, 041705 | 2.4 | 1 |
| 17 | Photo-Induced Relaxation of Magnetization in Molecular Magnet. <i>Acta Physica Polonica A</i> , 2007 , 112, S-183-S-188 | 0.6 | 1 |
| 16 | Two-step magnetic transition in hybrid organic-organic materials of the (m-xylylenediamine)MeSO ₄ (Me = Mn, Fe, Co, Ni) type. <i>New Journal of Chemistry</i> , 2018 , 42, 18225-18235 | 3.6 | 1 |
| 15 | Description of isomorphous transformations in materials with various kinds of molecular disorder. <i>Phase Transitions</i> , 2013 , 86, 238-250 | 1.3 | 0 |
| 14 | Magnetic Properties of Transition Metal Molybdates. <i>Acta Physica Polonica A</i> , 2014 , 126, 250-251 | 0.6 | 0 |
| 13 | Octacyanonioabate(IV)-based molecular magnets revealing 3D long-range order. <i>Journal of Physics: Conference Series</i> , 2011 , 303, 012037 | 0.3 | 0 |
| 12 | Towards rationalizing photoswitchable behavior of Cu ^{II} Mo ^{IV} cyanido-bridged molecule. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 168697 | 2.8 | 0 |
| 11 | Positive definite distortion term of the extended Landau-de Gennes model. <i>Molecular Crystals and Liquid Crystals</i> , 2020 , 702, 87-91 | 0.5 | 0 |
| 10 | Engineering of the Magnetic Layered System with Adeninium Cations: Monocrystalline Angle-Resolved Studies of Nonlinear Magnetic Susceptibility. <i>Inorganic Chemistry</i> , 2021 , 60, 10186-10198 | 5.1 | 0 |
| 9 | Thermal properties of [Cr(NH ₃) ₆](BF ₄) ₃ studied by adiabatic and relaxation calorimetry. <i>Journal of Chemical Thermodynamics</i> , 2015 , 89, 223-227 | 2.9 | |
| 8 | Magnetic properties of copper dimolybdate CuMo ₂ O ₇ ·H ₂ O. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 362, 180-183 | 2.8 | |
| 7 | Optimal distribution of temperature points in BR measurement of local field. <i>Physica B: Condensed Matter</i> , 2013 , 411, 7-11 | 2.8 | |
| 6 | Hysteresis Effect in Mean-Field Model. <i>Acta Physica Polonica A</i> , 2014 , 126, 28-29 | 0.6 | |

- 5 Photomagnetic Effects in Mn-Porphyrin Based Molecular Magnet. *European Physical Journal D*, **2004**, 54, 543-546
- 4 Field Induced versus Local Anisotropy in Single Ion Magnets. *Acta Physica Polonica A*, **2020**, 137, 952-954 o.6
- 3 Powder Sample Susceptibility for Single Ion Magnets with $S=1,3/2$ with Rhombic Anisotropy. *Acta Physica Polonica A*, **2020**, 137, 948-951 o.6
- 2 Field-Induced Slow Magnetic Relaxation in Mn_{9W}₆ Cluster-Based Compound. *Acta Physica Polonica A*, **2017**, 131, 884-886 o.6
- 1 Effective spectroscopic factor of the doublet ground state: A useful tool for comparison with outcome of EPR experiments. *Physica B: Condensed Matter*, **2020**, 581, 411960 2.8