

Robert Podgajny

List of Publications by Year in descending order

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77
papers

2,880
citations

159585

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175258

52
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83
all docs

83
docs citations

83
times ranked

1473
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular coordination networks based on octacyanometalates: From structure to function. <i>Coordination Chemistry Reviews</i> , 2006, 250, 2234-2260.	18.8	201
2	The impact of ligands upon topology and functionality of octacyanidometallate-based assemblies. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1946-1971.	18.8	164
3	Engineering of octacyanometalate-based coordination networks towards functionality. <i>Coordination Chemistry Reviews</i> , 2005, 249, 2203-2221.	18.8	155
4	2-D soft ferromagnet based on $[W(CN)_8]^{3-}$ and CuII with a Tc of 34 K. Electronic supplementary information (ESI) available: structure of $[Cu(tetren)]^{2+}$ in 1 and $(NC)_7W^{6+}CN^{4-}Cu(NC)_4$ structural motif of 2; table and figures of IR spectra of 1, 2, tetren·5HCl and free tetren. See http://www.rsc.org/suppdata/cc/b2/b202810g/ . <i>Chemical Communications</i> , 2002, , 1138-1139.	4.1	102
5	Octacyanidometallates for multifunctional molecule-based materials. <i>Chemical Society Reviews</i> , 2020, 49, 5945-6001.	38.1	100
6	A Decade of Octacyanides in Polynuclear Molecular Materials. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 305-326.	2.0	99
7	Pentanuclear Octacyanotungstate(V)-Based Molecule with a High Spin Ground State $S=13/2$. <i>Inorganic Chemistry</i> , 2002, 41, 1323-1327.	4.0	90
8	Photomagnetism in Cyano-Bridged Hexanuclear Clusters $[MnII(bpy)_2]_4[MIV(CN)_8]_2 \cdot xH_2O$ ($M = Mo, x =$) T_j ETQq0 0 0 rgBT / Overlock	0.7	90
9	Multifunctional Magnetic Molecular $\{[Mn^{sup}II]_{2}(urea)_{2}(H_{2}O)_{2}[Nb^{sup}IV(CN)_8]_{2}\}_{n}$ System: Magnetization-Induced SHG in the Chiral Polymorph. <i>Chemistry of Materials</i> , 2011, 23, 21-31.	4.0	88
10	Double Switching of a Magnetic Coordination Framework through Intraskelatal Molecular Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3973-3977.	13.8	79
11	Magnetic Spongelike Behavior of 3D Ferrimagnetic $\{[Mn^{sup}II]_{2}(imH)_{2}[Nb^{sup}IV(CN)_8]_{2}\}_{n}$ with $T_c = 62$ K. <i>Inorganic Chemistry</i> , 2008, 47, 9745-9747.	4.0	77
12	Tuning of Charge Transfer Assisted Phase Transition and Slow Magnetic Relaxation Functionalities in $\{Fe^{sup}9xCo^{sup>x}[W(CN)_8]_6\}$ ($x = 0-9$) Molecular Solid Solution. <i>Journal of the American Chemical Society</i> , 2016, 138, 1635-1646.	13.7	76
13	Magnetic clusters based on octacyanidometallates. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 10-27.	6.0	74
14	High T_c Ferrimagnetic Organic-Inorganic Hybrid Materials with $Mn^{sup}II$ and $Mn^{sup}II$ Linkages ($L =$ Pyrazine, T_j ETQq0 0 0 rgBT / Ov	4.5	70
15	Towards high Tc octacyanometalate-based networks. <i>CrystEngComm</i> , 2009, 11, 2032.	2.6	68
16	$Co^{sup}9NC^{sup}W$ and $Fe^{sup}9NC^{sup}W$ Electron Transfer Channels for Thermal Bistability in Trimetallic $\{Fe^{sup}6Co^{sup}3[W(CN)_8]_6\}$ Cyanido-Bridged Cluster. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 896-900.	13.8	68
17	Three-dimensional bimetallic octacyanidometalates $[MIV\{\frac{1}{4}CN\}_4MnII(H_2O)_2 \cdot 4H_2O]_n$ ($M = Nb, Mo, W$): Synthesis, single-crystal X-ray diffraction and magnetism. <i>Comptes Rendus Chimie</i> , 2008, 11, 1192-1199.	0.3	64
18	$Fe^{sup}II$ Spin Crossover Phenomenon in the Pentadecanuclear $\{Fe^{sup}9[Re(CN)_8]_6\}$ Spherical Cluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5093-5097.	13.8	58

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19	Natural and magnetic optical activity of 2-D chiral cyanido-bridged $Mn^{II} \text{--} Nb^{IV}$ molecular ferrimagnets. <i>Chemical Communications</i> , 2013, 49, 6731.	4.1	55
20	Coordination polymers based on octacyanometalates(IV,V) (M = Mo, W) and aliphatic polyamine copper(II) tectons with [N ₃] donor atom sets. <i>Dalton Transactions</i> , 2003, , 3458-3468.	3.3	53
21	A new family of magnetic 2D coordination polymers based on $[M^{IV}(\text{CN})_8]^{3-}$ (M=Mo, W) and pre-programmed Cu ²⁺ centres. <i>Polyhedron</i> , 2003, 22, 2183-2190.	2.2	46
22	Magnetostructural Correlations in $Cu^{II} \text{--} NC \text{--} W^{IV}$ Linkage: The Case of $[Cu^{II}(\text{diimine})_2]^{2+} [W^{IV}(\text{CN})_8]^{3-}$ OD Assemblies. <i>Inorganic Chemistry</i> , 2009, 48, 2865-2872.	4.0	42
23	Charge transfer phase transition with reversed thermal hysteresis loop in the mixed-valence $Fe_9[W(\text{CN})_8]_6 \cdot x\text{MeOH}$ cluster. <i>Chemical Communications</i> , 2014, 50, 3484.	4.1	41
24	Iron(II)-octacyanonitrate(IV) ferromagnet with TC 43 K. <i>Dalton Transactions</i> , 2009, , 7771.	3.3	39
25	Modular approach towards functional multimetallic coordination clusters. <i>Coordination Chemistry Reviews</i> , 2020, 419, 213394.	18.8	38
26	Testing the High Spin $Mn^{II}W_6$ Cluster as Building Block for Three-Dimensional Coordination Networks. <i>Crystal Growth and Design</i> , 2008, 8, 3817-3821.	3.0	36
27	Using CdTe/ZnSe core/shell quantum dots to detect DNA and damage to DNA. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 1277-1291.	6.7	36
28	Exploring the formation of 3D ferromagnetic cyano-bridged $Cu^{II} \text{--} [W^{IV}(\text{CN})_8]^{3-} \text{--} [W^{IV}(\text{CN})_8]^{3-} \text{--} H_2O$ networks. <i>Journal of Materials Chemistry</i> , 2007, 17, 3308.	6.7	34
29	Supramolecular Chains and Coordination Nanowires Constructed of High-Spin $Co^{II} \text{--} W^{IV} \text{--} W^{IV}$ Clusters and 4,4'-bpydo Linkers. <i>Crystal Growth and Design</i> , 2013, 13, 3036-3045.	3.0	33
30	Modulation of the Fe spin crossover effect in the pentadecanuclear $\{Fe_9[M(\text{CN})_8]_6\}$ (M = Re, W) clusters by facial coordination of tridentate polyamine ligands. <i>Dalton Transactions</i> , 2017, 46, 8027-8036.	3.3	31
31	Supramolecular networks based on octacyanometalates of Mo and W. <i>Comptes Rendus Chimie</i> , 2002, 5, 639-649.	0.5	30
32	Cobalt(II) octacyanotungstate(V) organic-inorganic hybrid ferromagnetic materials with pyrazine and 4,4'-bipyridine. <i>Dalton Transactions</i> , 2006, , 2801-2809.	3.3	30
33	$\{Mn^{II}W_6\}_n$ Nanowires Organized into Three-Dimensional Hybrid Network of $11O_2$ Topology. <i>Crystal Growth and Design</i> , 2010, 10, 4693-4696.	3.0	30
34	Implementation of Chirality into High-Spin Ferromagnetic $Co^{II} \text{--} W^{IV} \text{--} W^{IV}$ and $Ni^{II} \text{--} W^{IV} \text{--} W^{IV}$ Cyanido-Bridged Clusters. <i>Crystal Growth and Design</i> , 2015, 15, 3573-3581.	3.0	29
35	Magnetic ordering in the double-layered molecular magnet $Cu^{II} \text{--} tetren$. <i>Physical Review B</i> , 2008, 78, .	3.2	28
36	Optical Activity and Dehydration-Driven Switching of Magnetic Properties in Enantiopure Cyanido-Bridged $Co^{II} \text{--} W^{IV} \text{--} W^{IV}$ Trigonal Bipyramids. <i>Inorganic Chemistry</i> , 2015, 54, 5784-5794.	4.0	27

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37	Structural anisotropy of cyanido-bridged {Coll9WV6} single-molecule magnets induced by bidentate ligands: towards the rational enhancement of an energy barrier. <i>Chemical Communications</i> , 2016, 52, 4772-4775.	4.1	27
38	Influence of octacyanonioabate(IV)-bridging geometry on Tc in Mn2Nb ferrimagnets of identical 3D topology. <i>Inorganica Chimica Acta</i> , 2008, 361, 3957-3962.	2.4	26
39	Humidity-Driven Reversible Transformation and Guest Inclusion in a Two-Dimensional Coordination Framework Tailored by Organic Polyamine Cation. <i>Crystal Growth and Design</i> , 2011, 11, 3866-3876.	3.0	25
40	Rotating Magnetocaloric Effect in an Anisotropic Two-Dimensional Cu ^{II} [W ^V (CN) ₈] ³⁻ Molecular Magnet with Topological Phase Transition: Experiment and Theory. <i>Inorganic Chemistry</i> , 2017, 56, 11971-11980.	4.0	22
41	Basket weave-like 2-D coordination polymer generated by the self-assembly of [Mn(H ₂ O) ₆] ²⁺ and geometrically anisotropic [W(CN) ₆ bpy] ₂ ⁻ precursors. <i>CrystEngComm</i> , 2002, 4, 199-201.	2.6	21
42	Series of M ^I [Co(bpy) ₃][Mo(CN) ₈] ⁻ ·nH ₂ O (M ^I = Li (1), K (2), Rb (3), Cs (4); n = 7-8) Exhibiting Reversible Diamagnetism to Paramagnetic Transition Coupled with Dehydration/Rehydration Process. <i>Inorganic Chemistry</i> , 2010, 49, 2765-2772.	4.0	21
43	Role of Pyrazine-N,N-dioxide in [W(CN) ₈] ⁻ -Based Hybrid Networks: Anion-π Interactions. <i>Crystal Growth and Design</i> , 2014, 14, 4030-4040.	3.0	21
44	Anion-π recognition between [M(CN) ₆] ³⁻ complexes and HAT(CN) ₆ : structural matching and electronic charge density modification. <i>Dalton Transactions</i> , 2017, 46, 3482-3491.	3.3	20
45	Metal-metal interactions in bent cyano-bridged trinuclear octacyanomolybdate(IV)-platinum(IV) complexes. <i>Polyhedron</i> , 2001, 20, 685-694.	2.2	19
46	W-Knotted Chain {[Cull(dien) ₄ [WV(CN) ₈] ₅]}: Synthesis, Crystal Structure, Magnetism, and Theory. <i>Inorganic Chemistry</i> , 2011, 50, 3213-3222.	4.0	19
47	Self-Enhancement of Rotating Magnetocaloric Effect in Anisotropic Two-Dimensional (2D) Cyanido-Bridged Mn ^{II} -Nb ^{IV} Molecular Ferrimagnet. <i>Inorganic Chemistry</i> , 2017, 56, 2777-2783.	4.0	19
48	Real-Time Visualization of Cell Membrane Damage Using Gadolinium-Schiff Base Complex-Doped Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35859-35868.	8.0	19
49	Magneto-Structural Correlations in Discrete MnII-WV Cyano-Bridged Assemblies with Polyimine Ligands. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4166-4174.	2.0	16
50	Tuning of High Spin Ground State and Slow Magnetic Relaxation within Trimetallic Cyanide-Bridged {Ni II x Co II 9 ^x [W V (CN) 8] 6 } and {Mn II x Co II 9 ^x x. <i>Chemistry - A European Journal</i> , 2018, 24, 15533-15542.	3.3	16
51	The solvent effect on the structural and magnetic features of bidentate ligand-capped {Co ^{II} [W ^V (CN) ₈] ₆ } single-molecule magnets. <i>CrystEngComm</i> , 2016, 18, 1495-1504.	2.6	15
52	Double Magnetic Relaxation and Magnetocaloric Effect in the {Mn ^{II} [W(CN) ₈] ₆ (4,4-dpds) ₄ } Cluster-Based Network. <i>Inorganic Chemistry</i> , 2017, 56, 7089-7098.	4.0	15
53	Magnetic anisotropy of Co ^{II} -W ^V ferromagnet: single crystal and ab initio study. <i>CrystEngComm</i> , 2013, 15, 2378-2385.	2.6	14
54	Ternary adduct {[W(CN) ₈] ³⁻ , [Pt(en) ₂] ²⁺ , [W(CN) ₈] ³⁻ } in aqueous solution and crystal structure of [Pt(en) ₂] ₃ [W(CN) ₈] ₂ ·4H ₂ O with infinite linear W-π-Sπ chains. <i>Dalton Transactions RSC</i> , 2000, 1799-1803.	2.3	11

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55	Anion- π Architectures of HAT(CN) ₆ and 5d Polycyanidometalates: [W(CN) ₈] ³⁻ , [Re(CN) ₇] ³⁻ , and [Pt(CN) ₆] ²⁻ . <i>Crystal Growth and Design</i> , 2019, 19, 1215-1225.	3.0	11
56	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anion- π {[M(CN) ₄] ²⁻ ; [HAT(CN) ₆]} _n (M=Ni, Pd, Pt) Supramolecular Stacks. <i>Chemistry - A European Journal</i> , 2018, 24, 16302-16314.	3.3	10
57	Solvent-assisted structural conversion involving bimetallic complexes based on the tris(oxalato)ferrate(ⁱⁱⁱ) unit with the green \rightarrow blue \rightarrow red crystal color sequence. <i>Dalton Transactions</i> , 2019, 48, 11536-11546.	3.3	10
58	Bulky ligands shape the separation between the large spin carriers to condition field-induced slow magnetic relaxation. <i>Dalton Transactions</i> , 2020, 49, 300-311.	3.3	9
59	A heterotrimetallic synthetic approach in versatile functionalization of nanosized {MxCu ₁₃ W ₇ } ³⁺ and {M ₁ Cu ₈ W ₆ } (M = Co, Ni, Mn, Fe) metal-cyanide magnetic clusters. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3104-3118.	6.0	8
60	Mining anion- π aromatic interactions in the Protein Data Bank. <i>Chemical Science</i> , 2022, 13, 3984-3998.	7.4	8
61	Tuning of the phase transition between site selective SCO and intermetallic ET in trimetallic magnetic cyanido-bridged clusters. <i>Dalton Transactions</i> , 2020, 49, 17321-17330.	3.3	7
62	Binding of anionic Pt(ⁱⁱ) complexes in a dedicated organic matrix: towards new binary crystalline composites. <i>Dalton Transactions</i> , 2021, 50, 170-185.	3.3	7
63	Cyanido-Bridged Clusters with Remote N-Oxide Groups for Branched Multimetallic Systems. <i>Crystal Growth and Design</i> , 2018, 18, 4766-4776.	3.0	6
64	A concerted evolution of supramolecular interactions in a {cation; metal complex; π -acid; solvent} anion- π system. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1851-1863.	6.0	6
65	Exploring the structure-property schemes in anion- π systems of d-block metalates. <i>Dalton Transactions</i> , 2021, 50, 10999-11015.	3.3	6
66	Influence of the chloride counterion on the redox reactivity of tetraammineplatinum(II) cation with octacyanotungstate(V) anion. <i>Polyhedron</i> , 1999, 18, 3527-3531.	2.2	5
67	X-ray Absorption Spectroscopy Study of Novel Inorganic-organic Hybrid Ferromagnetic Cu-py[M(CN) ₈] ³⁻ Assemblies. <i>Inorganic Chemistry</i> , 2012, 51, 11722-11729.	4.0	5
68	Manipulation of the cyanido-bridged Fe ₂ W ₂ rhombus in the crystalline state: Co-crystallization, desolvation and thermal treatment. <i>Polyhedron</i> , 2022, 224, 116028.	2.2	3
69	Back Cover: Double Switching of a Magnetic Coordination Framework through Intraskelatal Molecular Rearrangement (<i>Angew. Chem. Int. Ed.</i> 17/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3818-3818.	13.8	2
70	Engineering of the XY Magnetic Layered System with Adeninium Cations: Monocrystalline Angle-Resolved Studies of Nonlinear Magnetic Susceptibility. <i>Inorganic Chemistry</i> , 2021, 60, 10186-10198.	4.0	2
71	Sorption and Magnetic Properties of Oxalato-Based Trimetallic Open Framework Stabilized by Charge-Assisted Hydrogen Bonds. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1556.	4.1	2
72	Influence of the Substituted Ethylenediamine Ligand on the Structure and Properties of [Cu(diamine) ₂ Zn(NCS) ₄] ⁿ Solv. Compounds. <i>Crystals</i> , 2019, 9, 637.	2.2	1

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73	Structural Disorder in High-Spin {CoII ₉ W ₆ } (Core)-[Pyridine N-Oxides] (Shell) Architectures. <i>Molecules</i> , 2020, 25, 2511.	3.8	1
74	Binary and Ternary Core-Shell Crystals of Polynuclear Coordination Clusters via Epitaxial Growth. <i>Crystal Growth and Design</i> , 0, , .	3.0	1
75	Supramolecular cis-Bis(Chelation) of [M(CN) ₆] ³⁻ (M = CrIII, FeIII, CoIII) by Phloroglucinol (H3PG). <i>Molecules</i> , 2022, 27, 4111.	3.8	1
76	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anion- π { [M(CN) ₄] ²⁻ ; [HAT(CN) ₆]} ⁻ (M=Ni, Pd, Pt) Supramolecular Stacks. <i>Chemistry - A European Journal</i> , 2018, 24, 16195-16195.	3.3	0
77	Cyanide-Bridged {Ni ₁₁ Co ₉ }[W ₃ (CN) ₈] ₆ and {Mn ₁₁ Co ₉ }[W ₃ (CN) ₈] ₆ Clusters. <i>Chemistry - A European Journal</i> , 2018, 24, .		