

Robert Podgajny

List of Publications by Year in descending order

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77
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times ranked

1473
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Mining anionâ€“aromatic interactions in the Protein Data Bank. <i>Chemical Science</i> , 2022, 13, 3984-3998.	7.4	8
3	Supramolecular cis-â€œBis(Chelation)â€“of [M(CN) ₆] ³⁻ (M = CrIII, FeIII, CoIII) by Phloroglucinol (H3PG). <i>Molecules</i> , 2022, 27, 4111.	3.8	1
4	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
5	Binding of anionic Pt(<i>scp</i>) complexes in a dedicated organic matrix: towards new binary crystalline composites. <i>Dalton Transactions</i> , 2021, 50, 170-185.	3.3	7
6	Exploring the structureâ€“property schemes in anionâ€“ic systems of d-block metalates. <i>Dalton Transactions</i> , 2021, 50, 10999-11015.	3.3	6
7	Engineering of the <i>XY</i> 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
8	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
9	Octacyanidometallates for multifunctional molecule-based materials. <i>Chemical Society Reviews</i> , 2020, 49, 5945-6001.	38.1	100
10	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
11	Modular approach towards functional multimetallic coordination clusters. <i>Coordination Chemistry Reviews</i> , 2020, 419, 213394.	18.8	38
12	A concerted evolution of supramolecular interactions in a {cation; metal complex; ic-acid; solvent} anion-ic system. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1851-1863.	6.0	6
13	Structural Disorder in High-Spin {CoII ₉ W ₆ } (Core)-[Pyridine N-Oxides] (Shell) Architectures. <i>Molecules</i> , 2020, 25, 251.	3.8	1
14	Solvent-assisted structural conversion involving bimetallic complexes based on the tris(oxalato)ferrate(<i>scp</i>) unit with the green â†’ blue â†’ red crystal color sequence. <i>Dalton Transactions</i> , 2019, 48, 11536-11546.	3.3	10
15	A heterotrimetallic synthetic approach in versatile functionalization of nanosized {M _x Cu ₁₃ W ₇ } ³⁺ and {M ₁ Cu ₈ W ₆ } (M = Co, Ni, Mn, Fe) metalâ€“cyanide magnetic clusters. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3104-3118.	6.0	8
16	Influence of the Substituted Ethylenediamine Ligand on the Structure and Properties of [Cu(diamine) ₂ Zn(NCS) ₄] TM Solv. <i>Compounds. Crystals</i> , 2019, 9, 637.	2.2	1
17	Anion-ic 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
18	Real-Time Visualization of Cell Membrane Damage Using Gadoliniumâ€“Schiff Base Complex-Doped Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35859-35868.	8.0	19

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19	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anion-Recognized $\{[M(CN)_4]^{2-}; [HAT(CN)_6]\}^{z-}$ (M=Ni, Pd, Pt) Supramolecular Stacks. <i>Chemistry - A European Journal</i> , 2018, 24, 16195-16195. Frontispiece: Tuning of High Spin Ground State and Slow Magnetic Relaxation within Trimetallic Cyanide-Bridged	3.3	0
20	$\{Ni^{II} \times \} \times \{Co^{II} \times 9\} \times [W^{IV}(CN)_8]_6$ and $\{Mn^{II} \times \} \times \{Co^{II} \times 9\} \times [W^{IV}(CN)_8]_6$ Clusters. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	6
21	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
22	Tuning of High Spin Ground State and Slow Magnetic Relaxation within Trimetallic Cyanide-Bridged $\{Ni^{II} \times Co^{II} 9\} \times [W^{IV}(CN)_8]_6$ and $\{Mn^{II} \times Co^{II} 9\} \times$. <i>Chemistry - A European Journal</i> , 2018, 24, 15533-15542.	3.3	16
23	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anion-Recognized $\{[M(CN)_4]^{2-}; [HAT(CN)_6]\}^{z-}$ (M=Ni, Pd, Pt) Supramolecular Stacks. <i>Chemistry - A European Journal</i> , 2018, 24, 16302-16314.	3.3	10
24	Self-Enhancement of Rotating Magnetocaloric Effect in Anisotropic Two-Dimensional (2D) Cyanido-Bridged $Mn^{II} \times Nb^{IV}$ Molecular Ferrimagnet. <i>Inorganic Chemistry</i> , 2017, 56, 2777-2783.	4.0	19
25	Anion-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
26	Modulation of the Fell spin crossover effect in the pentadecanuclear $\{Fe_9[M(CN)_8]_6\}$ (M = Re, W) clusters by facial coordination of tridentate polyamine ligands. <i>Dalton Transactions</i> , 2017, 46, 8027-8036.	3.3	31
27	Double Magnetic Relaxation and Magnetocaloric Effect in the $\{Mn^9[W(CN)_8]_6(4,4\text{-dpds})_4\}$ Cluster-Based Network. <i>Inorganic Chemistry</i> , 2017, 56, 7089-7098.	4.0	15
28	Rotating Magnetocaloric Effect in an Anisotropic Two-Dimensional $Cu^{II} [W^{IV}(CN)_8]_3$ Molecular Magnet with Topological Phase Transition: Experiment and Theory. <i>Inorganic Chemistry</i> , 2017, 56, 11971-11980.	4.0	22
29	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
30	The solvent effect on the structural and magnetic features of bidentate ligand-capped $\{Co^{II} \times 9 [W^{IV}(CN)_8]_6\}$ single-molecule magnets. <i>CrystEngComm</i> , 2016, 18, 1495-1504.	2.6	15
31	Tuning of Charge Transfer Assisted Phase Transition and Slow Magnetic Relaxation Functionalities in $\{Fe^9 \times Co \times [W(CN)_8]_6\}$ ($\times = O^{9-}$) Molecular Solid Solution. <i>Journal of the American Chemical Society</i> , 2016, 138, 1635-1646.	13.7	76
32	Structural anisotropy of cyanido-bridged $\{Co_9W_6\}$ 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
33	Optical Activity and Dehydration-Driven Switching of Magnetic Properties in Enantiopure Cyanido-Bridged $Co^{II} \times 3 W^{IV} \times 2$ Trigonal Bipyramids. <i>Inorganic Chemistry</i> , 2015, 54, 5784-5794.	4.0	27
34	Magnetic clusters based on octacyanidometallates. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 10-27.	6.0	74
35	$Fe^{II} \times$ Spin-Crossover Phenomenon in the Pentadecanuclear $\{Fe^9 [Re(CN)_8]_6\}$ Spherical Cluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5093-5097.	13.8	58
36	Implementation of Chirality into High-Spin Ferromagnetic $Co^{II} \times 9 W^{IV} \times 6$ and $Ni^{II} \times 9 W^{IV} \times 6$ Cyanido-Bridged Clusters. <i>Crystal Growth and Design</i> , 2015, 15, 3573-3581.	3.0	29

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37	Role of Pyrazine- <i>N,N</i> -dioxide in [W(CN) ₈] ⁿ⁻ -Based Hybrid Networks: Anion-π Interactions. <i>Crystal Growth and Design</i> , 2014, 14, 4030-4040.	3.0	21
38	Charge transfer phase transition with reversed thermal hysteresis loop in the mixed-valence Fe ₉ [W(CN) ₈] ₆ ·xMeOH cluster. <i>Chemical Communications</i> , 2014, 50, 3484.	4.1	41
39	Natural and magnetic optical activity of 2-D chiral cyanido-bridged MnII-NbIV molecular ferrimagnets. <i>Chemical Communications</i> , 2013, 49, 6731.	4.1	55
40	Co ^{II} -NC ^W and Fe ^{II} -NC ^W Electron-Transfer Channels for Thermal Bistability in Trimetallic {Fe ₆ Co ₃ [W(CN) ₈] ₆ } Cyanido-Bridged Cluster. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 896-900.	13.8	68
41	Magnetic anisotropy of Co ^{II} -W ^V ferromagnet: single crystal and ab initio study. <i>CrystEngComm</i> , 2013, 15, 2378-2385.	2.6	14
42	Supramolecular Chains and Coordination Nanowires Constructed of High-Spin Co ^{II} - ₉ W ^V - ₆ Clusters and 4,4'-bpdol Linkers. <i>Crystal Growth and Design</i> , 2013, 13, 3036-3045.	3.0	33
43	X-ray Absorption Spectroscopy Study of Novel Inorganic-organic Hybrid Ferromagnetic Cu ^{II} -pyz-[M(CN) ₈] ₃ Assemblies. <i>Inorganic Chemistry</i> , 2012, 51, 11722-11729.	4.0	5
44	The impact of ligands upon topology and functionality of octacyanidometallate-based assemblies. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1946-1971.	18.8	164
45	W-Knotted Chain {[Cull(dien)] ₄ [W(CN) ₈] ₅ ·xH ₂ O}: Synthesis, Crystal Structure, Magnetism, and Theory. <i>Inorganic Chemistry</i> , 2011, 50, 3213-3222.	4.0	19
46	Multifunctional Magnetic Molecular {[Mn ^{II}] ₂ (urea) ₂ (H ₂ O) ₂ }[Nb ^{IV} (CN) ₈] _n System: Magnetization-Induced SHG in the Chiral Polymorph. <i>Chemistry of Materials</i> , 2011, 23, 21-31.	4.0	18
47	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
48	A Decade of Octacyanides in Polynuclear Molecular Materials. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 305-326.	2.0	99
49	Double Switching of a Magnetic Coordination Framework through Intraskelatal Molecular Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3973-3977.	13.8	79
50	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
51	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
52	Series of M ^I [Co(bpy) ₃][Mo(CN) ₈] ⁿ⁻ ·xH ₂ O (M ^I =Li (1), K (2), Rb (3), Cs (4); <i>n</i> =7-8) Exhibiting Reversible Diamagnetic to Paramagnetic Transition Coupled with Dehydration-Rehydration Process. <i>Inorganic Chemistry</i> , 2010, 49, 2765-2772.	4.0	21
53	{MnII ₉ WV 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
54	Towards high T _c octacyanometallate-based networks. <i>CrystEngComm</i> , 2009, 11, 2032.	2.6	68

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55	Magnetostructural Correlations in $Cu^{II}(diimine)_2^{+}[W^{V}(CN)_8]^{3-}$ OD Assemblies. <i>Inorganic Chemistry</i> , 2009, 48, 2865-2872.	4.0	42
56	Iron(II)-octacyanonitrate(IV) ferromagnet with T_c 43 K. <i>Dalton Transactions</i> , 2009, , 7771.	3.3	39
57	Three-dimensional bimetallic octacyanidometalates $[MIV\{\frac{1}{4}(CN)_4MnII(H_2O)_2\}2\cdot 4H_2O]_n$ ($M = Nb, Mo, W$): Synthesis, single-crystal X-ray diffraction and magnetism. <i>Comptes Rendus Chimie</i> , 2008, 11, 1192-1199.	0.3	64
58	Influence of octacyanonitrate(IV)-bridging geometry on T_c in Mn_2Nb ferrimagnets of identical 3D topology. <i>Inorganica Chimica Acta</i> , 2008, 361, 3957-3962.	2.4	26
59	Magnetic Spongelike Behavior of 3D Ferrimagnetic $\{[Mn^{II}(imH)]_2[Nb^{IV}(CN)_8]\}_n$ with $T_c = 62$ K. <i>Inorganic Chemistry</i> , 2008, 47, 9745-9747.	4.0	77
60	Testing the High Spin $Mn^{II}9WV_6$ Cluster as Building Block for Three-Dimensional Coordination Networks. <i>Crystal Growth and Design</i> , 2008, 8, 3817-3821.	3.0	36
61	Magnetic ordering in the double-layered molecular magnet $Cu(tetren)_2$. <i>Physical Review B</i> , 2008, 78, .	3.2	28
62	Exploring the formation of 3D ferromagnetic cyano-bridged $Cu^{II}_2\{Cu^{II}_4[W^{V}(CN)_8]_4\} \cdot xH_2O$ networks. <i>Journal of Materials Chemistry</i> , 2007, 17, 3308.	6.7	34
63	High T_c Ferrimagnetic Organic-Inorganic Hybrid Materials with $Mn^{II}L^mMn^{II}$ and $Mn^{II}NC^{IV}Nb^{IV}$ Linkages ($L =$ Pyrazine,). <i>Inorganic Chemistry</i> , 2006, 45, 7843-7848.	17.0	7843
64	Cobalt(II) octacyanonitrate(V) organic-inorganic hybrid ferromagnetic materials with pyrazine and 4,4'-bipyridine. <i>Dalton Transactions</i> , 2006, , 2801-2809.	3.3	30
65	Supramolecular coordination networks based on octacyanometalates: From structure to function. <i>Coordination Chemistry Reviews</i> , 2006, 250, 2234-2260.	18.8	201
66	Engineering of octacyanometalate-based coordination networks towards functionality. <i>Coordination Chemistry Reviews</i> , 2005, 249, 2203-2221.	18.8	155
67	Photomagnetism in Cyano-Bridged Hexanuclear Clusters $[Mn^{II}(bpy)_2]_4[MIV(CN)_8]_2 \cdot xH_2O$ ($M = Mo, x =$). <i>Inorganic Chemistry</i> , 2006, 45, 7843-7848.	17.0	7843
68	A new family of magnetic 2D coordination polymers based on $[M^{V}(CN)_8]^{3-}$ ($M=Mo, W$) and pre-programmed Cu^{2+} centres. <i>Polyhedron</i> , 2003, 22, 2183-2190.	2.2	46
69	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
70	Pentanuclear Octacyanonitrate(V)-Based Molecule with a High Spin Ground State $S=13/2$. <i>Inorganic Chemistry</i> , 2002, 41, 1323-1327.	4.0	90
71	2-D soft ferromagnet based on $[W^{V}(CN)_8]^{3-}$ and Cu^{II} with a T_c of 34 K. Electronic supplementary information (ESI) available: structure of $[Cu(tetren)]^{2+}$ in 1 and $(NC)_7W^{VI}CN^{IV}Cu(NC)_4$ structural motif of 2; table and figures of IR spectra of 1, 2, $tetren \cdot 5HCl$ and free tetren. See http://www.rsc.org/suppdata/cc/b2/b202810g/ . <i>Chemical Communications</i> , 2002, , 1138-1139.	4.1	102
72	Basket weave-like 2-D coordination polymer generated by the self-assembly of $[Mn(H_2O)_6]^{2+}$ and geometrically anisotropic $[W(CN)_6bpy]^{2-}$ precursors. <i>CrystEngComm</i> , 2002, 4, 199-201.	2.6	21

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73	Supramolecular networks based on octacyanometallates of Mo and W. <i>Comptes Rendus Chimie</i> , 2002, 5, 639-649.	0.5	30
74	Metal-metal interactions in bent cyano-bridged trinuclear octacyanomolybdate(IV)-platinum(IV) complexes. <i>Polyhedron</i> , 2001, 20, 685-694.	2.2	19
75	Ternary adduct $\{[W(CN)_8]^{3-}, [Pt(en)_2]^{2+}, [W(CN)_8]^{3-}\}$ in aqueous solution and crystal structure of $[Pt(en)_2]_3[W(CN)_8]_2 \cdot 4H_2O$ with infinite linear $W-S-Pt$ chains. <i>Dalton Transactions RSC</i> , 2000, , 1799-1803	2.3	17
76	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
77	Binary and Ternary Core-Shell Crystals of Polynuclear Coordination Clusters via Epitaxial Growth. <i>Crystal Growth and Design</i> , 0, , .	3.0	1