

Kirill Yu Monakhov

List of Publications by Year in descending order

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70
papers

1,620
citations

304368

22
h-index

329751

37
g-index

78
all docs

78
docs citations

78
times ranked

1790
citing authors

#	ARTICLE	IF	CITATIONS
1	Semimetal-functionalised polyoxovanadates. <i>Chemical Society Reviews</i> , 2015, 44, 8443-8483.	18.7	227
2	Polyoxometalates as components of supramolecular assemblies. <i>Chemical Science</i> , 2019, 10, 4364-4376.	3.7	112
3	Anionic Nâ€Heterocyclic Carbene Ligands from Mesoionic Imidazolium Precursors: Remote Backbone Arylimino Substitution Directs Carbene Coordination. <i>Chemistry - A European Journal</i> , 2013, 19, 450-455.	1.7	82
4	A novel, rigid diphosphine with an active NHC spacer; di- and trinuclear complexes of d¹⁰coinage metals. <i>Chemical Communications</i> , 2014, 50, 103-105.	2.2	79
5	Three-Coordinate Iron(II) N-Heterocyclic Carbene Alkyl Complexes. <i>Organometallics</i> , 2012, 31, 4102-4105.	1.1	53
6	Addressing Multiple Resistive States of Polyoxovanadates: Conductivity as a Function of Individual Molecular Redox States. <i>Journal of the American Chemical Society</i> , 2018, 140, 16635-16640.	6.6	49
7	Heptabismuthate [Bi₇I₂₄]^{3â€}: A Main Group Element Anderson-Type Structure and Its Relationships with the Polyoxometalates. <i>Inorganic Chemistry</i> , 2012, 51, 1562-1568.	1.9	48
8	Breaking the Gordian Knot in the Structural Chemistry of Polyoxometalates: Copper(II)â€Oxo/Hydroxo Clusters. <i>Chemistry - A European Journal</i> , 2017, 23, 7841-7852.	1.7	44
9	Configurational Isomerism in Polyoxovanadates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2972-2975.	7.2	43
10	Polyoxometalate encapsulation into metalâ€organic frameworks: the way towards functional nanomaterials for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17849-17853.	5.2	42
11	A comparative synthetic, magnetic and theoretical study of functional M4Cl4 cubane-type Co(ii) and Ni(ii) complexes. <i>Dalton Transactions</i> , 2014, 43, 7847.	1.6	40
12	Supramolecular Recognition Influences Magnetism in [X@HV^{IV}₈V^V₁₄O₅₄]^{6â€} Selfâ€Assemblies with Symmetryâ€Breaking Guest Anions. <i>Chemistry - A European Journal</i> , 2015, 21, 2387-2397.	1.7	38
13	Combined Experimental and Theoretical Study of Bis(diphenylphosphino)(<i>N</i> -thioether)amine-Type Ligands in Nickel(II) Complexes for Catalytic Ethylene Oligomerization. <i>Organometallics</i> , 2014, 33, 2523-2534.	1.1	37
14	Perspectives for Polyoxometalates in Single-Molecule Electronics and Spintronics. <i>Advances in Inorganic Chemistry</i> , 2017, , 251-286.	0.4	33
15	Mononuclear zinc(II) Schiff base complexes as catalysts for the ring-opening polymerization of lactide. <i>European Polymer Journal</i> , 2020, 122, 109302.	2.6	33
16	Molecular Characteristics of a Mixed-Valence Polyoxovanadate {V^{IV}₁₈O₄₂} in Solution and at the Liquidâ€Surface Interface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10419-10429.	1.5	28
17	The Cu(^I)-catalysed Huisgen 1,3-dipolar cycloaddition route to (bio-)organic functionalisation of polyoxovanadates. <i>Dalton Transactions</i> , 2017, 46, 15636-15640.	1.6	27
18	Supramolecular 3dâ€4f single-molecule magnet architectures. <i>Dalton Transactions</i> , 2016, 45, 16148-16152.	1.6	26

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19	Reduction vs. Metathesis in the Reactions of Bismuth Tribromide with a Bulky Lithium Silanide – An Experimental and Theoretical Study. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 322-332.	1.0	25
20	Heteroleptic, two-coordinate $[M(NHC)\{N(SiMe_3)_2\}]$ (M = Co, Fe) complexes: synthesis, reactivity and magnetism rationalized by an unexpected metal oxidation state. <i>Dalton Transactions</i> , 2017, 46, 1163-1171.	1.6	25
21	Palladium(II) carbonyl carboxylate clusters $cyclo-[Pd_2(\eta^4-CO)_2(\eta^4-OCOR)_2]_n$ (n=2 or 3): Structure and reactivity. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 3730-3736.	0.8	23
22	Solvent-Dependent Reversible Ligand Exchange in Nickel Complexes of a Monosulfide Bis(diphenylphosphino)(thioether)amine. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1795-1805.	1.7	23
23	Insights from Adsorption and Electron Modification Studies of Polyoxometalates on Surfaces for Molecular Memory Applications. <i>Accounts of Chemical Research</i> , 2021, 54, 3377-3389.	7.6	21
24	Stabilisation of a triply-bridging cyclopentadienyl ligand in a tetrapalladium cluster. <i>Chemical Communications</i> , 2012, 48, 8317.	2.2	18
25	Angular Distortions at Benzylic Carbons Due to Intramolecular Polarization-Induced Metal-Arene Interactions: A Case Study with Open-Shell Chromium(II) NHC Complexes. <i>Organometallics</i> , 2013, 32, 1842-1850.	1.1	18
26	Thioether-terminated nickel coordination clusters with $\{Ni_6\}$ horseshoe- and $\{Ni_8\}$ rollercoaster-shaped cores. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 523-531.	3.0	18
27	Rotational Isomerism, Electronic Structures, and Basicity Properties of Fully-Reduced V14-type Heteropolyoxovanadates. <i>Inorganic Chemistry</i> , 2016, 55, 3777-3788.	1.9	18
28	A V ₁₆ -type Polyoxovanadate Structure with Intricate Electronic Distribution: Insights from Magnetochemistry. <i>Crystal Growth and Design</i> , 2017, 17, 2342-2350.	1.4	18
29	Synthesis, photophysical properties and cation-binding studies of bipyridine-functionalized gold complexes. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 160-171.	3.0	18
30	How Does the Redox State of Polyoxovanadates Influence the Collective Behavior in Solution? A Case Study with $[@V18O42]q^{4-}$ (q = 3, 5, 7, 11, and 13). <i>Inorganic Chemistry</i> , 2019, 58, 3881-3894.	1.9	18
31	A thioether-decorated $\{Mn_{11}Tb_4\}$ coordination cluster with slow magnetic relaxation. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 1095-1100.	3.0	17
32	Interplay between the amphipathic polyoxometalate interactions in solution and at solid-liquid interfaces: a toolbox for the technical application. <i>Nanoscale</i> , 2019, 11, 4267-4277.	2.8	17
33	Synthesis and solution behavior of the trinuclear palladium(II) unsaturated carboxylate complexes $triangle-Pd_3[\eta^4-O_2CC(R^2)=CHMe]_6$ (R ² =Me, H): X-ray structure of palladium(II) tiglate (R ² =Me). <i>Inorganica Chimica Acta</i> , 2007, 360, 4111-4116.		15
34	Magnetochemical Complexity of Hexa- and Heptanuclear Wheel Complexes of Late 3d Ions Supported by N-Donor Pyridyl-Methanolate Ligands. <i>Chemistry - A European Journal</i> , 2014, 20, 3769-3781.	1.7	15
35	Reconciling the valence state with magnetism in mixed-valent polyoxometalates: the case of a $\{VO_2F_2@V_{22}O_{54}\}$ cluster. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29767-29771.	1.3	15
36	Cubane-Like Bismuth-Iron Cluster: Synthesis, X-ray Crystal Structure and Theoretical Characterization of the $[Bi_4Fe_8(CO)_{28}]^{4-}$ Anion. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3212-3219.	1.0	14

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37	Molecular Assemblies Based on Cp*BiX ₂ Units (X = Cl, Br, I): An Experimental and Computational Study. <i>Organometallics</i> , 2011, 30, 2844-2854.	1.1	14
38	Synthesis and structure of Tri- and octaindium compounds. <i>Dalton Transactions</i> , 2009, , 8071.	1.6	13
39	Adsorption phenomena of cubane-type tetranuclear Ni(II) complexes with neutral, thioether-functionalized ligands on Au(111). <i>Surface Science</i> , 2015, 641, 210-215.	0.8	13
40	Synthesis and Crystal Structure of a $\eta^6\text{FeBi}$ -Cluster Compound with Noncovalent Low-Valent Bi- π -Arene Interactions. <i>Inorganic Chemistry</i> , 2013, 52, 6782-6784.	1.9	12
41	Linear, Trinuclear Cobalt Complexes with <i>o</i> -Phenylene-bis-Silylamido Ligands. <i>Chemistry - A European Journal</i> , 2017, 23, 6504-6508.	1.7	12
42	Self-assembled monolayers of polyoxovanadates with phthalocyaninato lanthanide moieties on gold surfaces. <i>Chemical Communications</i> , 2019, 55, 13554-13557.	2.2	12
43	Supramolecular Construction of Cyanide-Bridged Rel Diimine Multichromophores. <i>Inorganic Chemistry</i> , 2019, 58, 1988-2000.	1.9	12
44	Spin-Hybrids: A Single-Molecule Approach to Spintronics. <i>E-Journal of Surface Science and Nanotechnology</i> , 2016, 14, 17-22.	0.1	11
45	Linear Cu ^I ₂ Pd ⁰ , Cu ^I Pd ⁰ ₂ , and Ag ^I ₂ Pd ⁰ Metal Chains Supported by Rigid <i>N,N'</i> -Diphosphanyl π -Heterocyclic Carbene Ligands and Metallophilic Interactions. <i>Chemistry - A European Journal</i> , 2018, 24, 8787-8796.	1.7	11
46	The Heck reaction as a tool to expand polyoxovanadates towards thiol-sensitive organic-inorganic hybrid fluorescent switches. <i>Dalton Transactions</i> , 2018, 47, 14402-14407.	1.6	10
47	Decoding the role of encapsulated ions in the electronic and magnetic properties of mixed-valence polyoxovanadate capsules {X@V ₂₂ O ₅₄ } (X = ClO ₄ ⁻ , Tj ETQ ₁ 1 0.784314 rgB	1.3	10
48	Theoretical Study of Structure, Bonding, and Electronic Behavior of Low-Valent Bismuth Cyclopentadienyl and Pentamethylcyclopentadienyl Half-Sandwich Compounds. <i>Inorganic Chemistry</i> , 2009, 48, 6986-6996.	1.9	8
49	Alkali-Metal-Supported Bismuth Polyhedra—Principles and Theoretical Studies. <i>Inorganic Chemistry</i> , 2011, 50, 5755-5762.	1.9	8
50	A dinuclear Bi(III) complex of a 1,3-disubstituted imidazole-2-thione and its use as a transmetallation agent toward Pd(II). <i>Journal of Organometallic Chemistry</i> , 2015, 796, 11-16.	0.8	8
51	{CoII/III ₅ } horseshoe and {NiII ₄ } lacunary cubane coordination clusters: the isobutyrate/ <i>N</i> -butyldiethanolamine reaction system. <i>RSC Advances</i> , 2016, 6, 100664-100669.	1.7	8
52	Konfigurationsisomerie in Polyoxovanadaten. <i>Angewandte Chemie</i> , 2018, 130, 3024-3028.	1.6	8
53	Triangular {Ni ₃ } coordination cluster with a ferromagnetically coupled metal-ligand core. <i>Polyhedron</i> , 2018, 144, 144-151.	1.0	8
54	Element-Selective Molecular Charge Transport Characteristics of Binuclear Copper(II)-Lanthanide(III) Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 9274-9285.	1.9	8

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55	Hexavanadate-Organogold(I) Hybrid Compounds: Synthesis by the Azide-Alkyne Cycloaddition and Density Functional Theory Study of an Intriguing Electron Density Distribution. <i>Inorganic Chemistry</i> , 2020, 59, 16122-16126.	1.9	7
56	Exploring the Ligand Functionality, Electronic Band Gaps, and Switching Characteristics of Single Wells Dawson-Type Polyoxometalates on Gold. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	7
57	On the Insertion of ML_2 (M = Ni, Pd, Pt; L = PH_3) into the Bi Bond (E = C, Si) <i>Journal of Organometallics</i> , 2012, 31, 4415-4428.	1.1	6
58	{P2V3W15}-Polyoxometalates Functionalized with Phthalocyaninato Y and Yb Moieties. <i>Inorganic Chemistry</i> , 2021, 60, 80-86.	1.9	6
59	Insertion of VIV Ions into the Polyoxotungstate Archetype {As4W40}. <i>Inorganic Chemistry</i> , 2021, 60, 8437-8441.	1.9	4
60	Ion-Directed Coordinative Polymerization of Copper(II) Pyridyl-Alcohol Complexes Through Thiane Functionalities. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 409-415.	0.6	3
61	The solid-state, solution and gas-phase interactions of diphosphane monooxide spacers with heavier group 8,9 transition metals and gallium in novel organometallic assemblies: An experimental and computational study. <i>Journal of Organometallic Chemistry</i> , 2012, 714, 22-31.	0.8	2
62	Conductive Self-Assembled Monolayers of Paramagnetic {CoII} and {CoIII} Coordination Clusters on Gold Surfaces. <i>Frontiers in Chemistry</i> , 2019, 7, 681.	1.8	2
63	TiO _x /Pt ₃ Ti(111) surface-directed formation of electronically responsive supramolecular assemblies of tungsten oxide clusters. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 203-212.	1.5	2
64	Synthesis, Structure, and Surface Adsorption Characteristics of a Polynuclear Mn ^{II,IV} -Yb ^{III} Complex. <i>Inorganic Chemistry</i> , 2021, 60, 10415-10425.	1.9	2
65	Expansion of Zirconium Oxide Clusters by 3d/4f Ions. <i>Inorganic Chemistry</i> , 2021, 60, 11599-11608.	1.9	2
66	Linear Cu ^I ₂ Pd ⁰ , Cu ^I Pd ⁰ ₂ , and Ag ^I ₂ Pd ⁰ Metal Chains Supported by Rigid Diphosphanyl Heterocyclic Carbene Ligands and Metallophilic Interactions. <i>Chemistry - A European Journal</i> , 2018, 24, 8697-8697.	1.7	2
67	A cubane-type nickel single-molecule magnet with exchange-biased quantum tunneling of magnetization. <i>Mendeleev Communications</i> , 2020, 30, 168-170.	0.6	2
68	A quantum-chemical study of donor-acceptor properties of carboxylic acids and their anions and evaluation of the effect of these properties on geometric and spectroscopic parameters of palladium(II) carboxylates. <i>Russian Journal of General Chemistry</i> , 2007, 77, 1896-1903.	0.3	0
69	Molecular orbitals for properties and spectroscopies. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
70	Synthesis and crystal structure of a one-dimensional chain-like strontium(II) coordination polymer built of N-methyldiethanolamine and isobutyrate ligands. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2021, 77, 703-707.	0.2	0