

Pengtao

List of Publications by Year in descending order

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papers

970
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516710

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#	ARTICLE	IF	CITATIONS
1	Carboxylate covalently modified polyoxometalates: From synthesis, structural diversity to applications. <i>Coordination Chemistry Reviews</i> , 2019, 378, 281-309.	18.8	205
2	Recent advances in transition-metal-containing Keggin-type polyoxometalate-based coordination polymers. <i>Coordination Chemistry Reviews</i> , 2019, 392, 49-80.	18.8	133
3	Elucidating white light emissions in Tm ³⁺ /Dy ³⁺ codoped polyoxometalates: a color tuning and energy transfer mechanism study. <i>Dalton Transactions</i> , 2018, 47, 13949-13956.	3.3	32
4	A Polyoxometalate-Based Inorganic Porous Material with both Proton and Electron Conductivity by Light Actuation: Photocatalysis for Baeyer-Villiger Oxidation and Cr(VI) Reduction. <i>Inorganic Chemistry</i> , 2021, 60, 682-691.	4.0	32
5	A Copper-Containing Polyoxometalate-Based Metal-Organic Framework as an Efficient Catalyst for Selective Catalytic Oxidation of Alkylbenzenes. <i>Inorganic Chemistry</i> , 2021, 60, 4792-4799.	4.0	32
6	An organic chromophore -modified samarium-containing polyoxometalate: excitation-dependent color tunable behavior from the organic chromophores to the lanthanide ion. <i>Dalton Transactions</i> , 2020, 49, 388-394.	3.3	28
7	dl-Serine covalently modified multinuclear lanthanide-implanted arsenotungstates with fast photochromism. <i>Chinese Chemical Letters</i> , 2023, 34, 107238.	9.0	27
8	An isotetramolybdate-supported rhenium carbonyl derivative: synthesis, characterization, and use as a catalyst for sulfoxidation. <i>Dalton Transactions</i> , 2018, 47, 5279-5285.	3.3	23
9	A binuclear copper-substituted phosphomolybdate with reactive oxygen species catalytic ability and antimicrobial activity. <i>CrystEngComm</i> , 2019, 21, 394-398.	2.6	20
10	Regulating the catalytic activity of multi-Ru-bridged polyoxometalates based on differential active site environments with six-coordinate geometry and five-coordinate geometry transitions. <i>Nanoscale</i> , 2021, 13, 8077-8086.	5.6	20
11	Improving the single-molecule magnet properties of two pentagonal bipyramidal Dy ³⁺ compounds by the introduction of both electron-withdrawing and -donating groups. <i>Dalton Transactions</i> , 2021, 50, 12607-12618.	3.3	19
12	Synthesis, characterization, and photoluminescence properties of three two-dimensional lanthanide-containing Dawson-type polyoxometalates. <i>Dalton Transactions</i> , 2019, 48, 13850-13857.	3.3	18
13	Utilizing the adaptive precursor [As ₂ W ₁₉ O ₆₇ (H ₂ O)] ¹⁴⁻ to support three hexanuclear lanthanoid-based tungstoarsenate dimers. <i>Dalton Transactions</i> , 2019, 48, 2813-2821.	3.3	18
14	Two synthetic routes generate two isopolyoxoniobates based on {Nb ₁₆ } and {Nb ₂₀ }. <i>Dalton Transactions</i> , 2019, 48, 17709-17712.	3.3	18
15	Polyoxovanadate catalysts for oxidation of 1-phenyl ethanol: from the discrete [V ₄ O ₁₂] ⁴⁻ and [V ₁₀ O ₂₈] ⁶⁻ anions to the anionic [V ₆ O ₁₇] _n ⁴ⁿ⁻ coordination polymer. <i>CrystEngComm</i> , 2018, 20, 6273-6279.	2.6	17
16	A nano-linear zinc-substituted phosphomolybdate with reactive oxygen species catalytic ability and antibacterial activity. <i>Journal of Molecular Structure</i> , 2019, 1198, 126865.	3.6	17
17	Well-tuned white-light-emitting behaviours in multicenter-Ln polyoxometalate derivatives: A photoluminescence property and energy transfer pathway study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 223, 117294.	3.9	17
18	Temperature-induced structural transformations accompanied by changes in magnetic properties of two copper coordination polymers. <i>CrystEngComm</i> , 2020, 22, 3482-3488.	2.6	17

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19	Recent advances in rare earth co-doped luminescent tungsten oxygen complexes. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4158-4176.	6.0	17
20	Trinuclear ruthenium core-containing polyoxometalate-based hybrids: preparation, characterization and catalytic behavior. <i>Dalton Transactions</i> , 2020, 49, 2895-2904.	3.3	17
21	Synthesis, characterization and catalytic epoxidation properties of a new tellurotungstate(IV)-supported rhenium carbonyl derivative. <i>Dalton Transactions</i> , 2019, 48, 628-634.	3.3	16
22	A silver-substituted phosphomolybdate prevents the growth of bacteria without affecting the balance of reactive oxygen species. <i>CrystEngComm</i> , 2020, 22, 7832-7837.	2.6	16
23	Pyrazine dicarboxylate-bridged arsenotungstate: synthesis, characterization, and catalytic activities in epoxidation of olefins and oxidation of alcohols. <i>Dalton Transactions</i> , 2019, 48, 12956-12963.	3.3	15
24	Preparation, characterization, and catalytic performances of a pyrazine dicarboxylate-bridging rare-earth-containing polytungstoarsenate aggregate for selective oxidation of thiophenes and deep desulfurization of model fuels. <i>Dalton Transactions</i> , 2018, 47, 9677-9684.	3.3	14
25	Discovery of two Na^{+} -centered Silverton-type polyoxometalates $\{\text{NaM}_{12}\text{O}_{42}\}$ (M = Mo, W). <i>Chemical Communications</i> , 2021, 57, 2172-2175.	4.1	14
26	Synthesis and characterization of a Sb^{V} -containing polyoxomolybdate serving as a catalyst for sulfoxidation. <i>Dalton Transactions</i> , 2018, 47, 8070-8077.	3.3	13
27	Magnetic field and dilution effects on the slow relaxation of $\{\text{Er}_3\}$ triangle-based arsenotungstate single-molecule magnets. <i>Dalton Transactions</i> , 2020, 49, 12458-12465.	3.3	13
28	A hybrid silicotungstate based on tri-coordination copper complex and Keggin type cluster with reactive oxygen species catalytic ability. <i>Journal of Molecular Structure</i> , 2020, 1206, 127714.	3.6	13
29	A new dimeric polyoxometalate derivate assembled by divacant Dawson $\{\text{P}_2\text{W}_{16}\}$ units and isosceles triangle $\{\text{Ce}_3\}$ cluster. <i>Inorganic Chemistry Communication</i> , 2018, 95, 154-157.	3.9	10
30	A novel peroxopolyoxoniobate incorporating mixed heteroatoms: $[\text{P}_2\text{Se}_2\text{Nb}_6(\text{O}_2)_6\text{O}_{22}]^{8-}$. <i>Dalton Transactions</i> , 2019, 48, 13135-13138.	3.3	9
31	Preparation, characterization and electrocatalysis performance of a trimeric ruthenium-substituted isopolytungstate. <i>Dalton Transactions</i> , 2019, 48, 10327-10336.	3.3	9
32	H-shaped oxalate-bridging lanthanoid-incorporated arsenotungstates. <i>Dalton Transactions</i> , 2020, 49, 15731-15738.	3.3	9
33	Selenotungstates incorporating organophosphonate ligands and metal ions: synthesis, characterization, magnetism and catalytic efficiency in the Knoevenagel condensation reaction. <i>Dalton Transactions</i> , 2020, 49, 7420-7425.	3.3	8
34	Synthesis, structures and stability of three V-substituted polyoxoniobate clusters based on $[\text{TeNb}_9\text{O}_{33}]^{17-}$ units. <i>Dalton Transactions</i> , 2021, 50, 7610-7620.	3.3	8
35	A Rh-substituted polyoxometalate with an acetate-modified building block $\{\text{As}_2\text{W}_{22}\text{O}_{76}(\text{CH}_3\text{COO})_2\}$. <i>Chemical Communications</i> , 2021, 57, 10250-10253.	4.1	8
36	Oxalate-bridging Nd^{III} -based arsenotungstate with multifunctional NIR-luminescence and magnetic properties. <i>Dalton Transactions</i> , 2022, 51, 10257-10265.	3.3	8

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37	A propionate-functionalized polyoxovanadate $K_2[V_{10}O_{16}(OH)_6(CH_3CH_2CO_2)_6] \cdot 20H_2O$: As catalyst for degradation of methylene blue. <i>Journal of Molecular Structure</i> , 2019, 1195, 184-188.	3.6	7
38	A new 2-D layer-like organic-inorganic hybrid tungstobismuthate constructed from $[Bi_2W_{20}O_{70}]_{14}^{4+}$ units and dimeric $[Cu_2(dien)_2]^{2+}$ complex cations. <i>Journal of Molecular Structure</i> , 2019, 1181, 142-147.	3.6	6
39	Discovery of the selenotantalate building block and its lanthanide derivatives: design, synthesis, and RhB decolorization properties. <i>Dalton Transactions</i> , 2020, 49, 4078-4083.	3.3	6
40	Facile and green synthesis of decatungstate-based nickel(II) complex coated onto modified Fe_3O_4 nanoparticles with enhanced antimicrobial activity against antibiotic-resistant bacteria. <i>CrystEngComm</i> , 2021, 23, 3919-3928.	2.6	6
41	Ln(III)-Containing polyoxomolybdates based on β - $[Mo_8O_{28}]$: microwave synthesis and optical and magnetic properties. <i>CrystEngComm</i> , 2019, 21, 3627-3633.	2.6	5
42	Ru(III)-based polyoxometalate tetramers as highly efficient heterogeneous catalysts for alcohol oxidation reactions at room temperature. <i>Dalton Transactions</i> , 2021, 50, 12664-12673.	3.3	5
43	A comprehensive approach providing a new synthetic route for bimetallic electrocatalysts <i>via</i> isoPOMs $[M/Rh(Cp^*)_4W_8O_{32}]$ (M = Rh (1) and Ir (2)). <i>Dalton Transactions</i> , 2018, 47, 13870-13879.	3.3	4
44	A large copper-niobate cluster with the pagoda-shaped subunit $\{Nb_{20}O_{59}\}$. <i>Chemical Communications</i> , 2021, 57, 3999-4002.	4.1	4
45	Organic-inorganic one-dimensional hybrid aggregates constructed from aromatic-bisphosphonate-functionalized polyoxomolybdates. <i>Dalton Transactions</i> , 2022, , .	3.3	4
46	A novel organic-inorganic hybrid polyoxometalate-based 3D framework constructed by organo-functionalized $[As_2W_{21}O_{72}(mal)_2]_{18}^{4+}$ units and Ce^{3+} ions. <i>Inorganic Chemistry Communication</i> , 2017, 83, 84-87.	3.9	3
47	A new phosphotungstate-supported rhenium carbonyl derivative: synthesis, characterization and catalytic selective oxidation of thiophenes. <i>CrystEngComm</i> , 2019, 21, 7322-7328.	2.6	3
48	Synthesis, characterization and photoluminescence properties of an organic-inorganic hybrid monolacunary Keggin-type polyoxotungstate. <i>Inorganic Chemistry Communication</i> , 2021, 129, 108621.	3.9	3
49	A Nonclassical Polyoxoanion $[P_3W_6(O_2)_6(OH)_2O_{22}]^{7-}$ Constructed by Two $\{PW_3(O_2)_3(OH)O_9\}$ Subunits and a $\{PO_4\}$ Group. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 523-528.	2.0	2
50	An unprecedented $[Fe_5O_5(OH)_2(OAc)_2]_2\{W_2O_2(OH)\}$ cluster sandwiched in the tetravacant tungstophosphate. <i>Dalton Transactions</i> , 2019, 48, 16857-16860.	3.3	2
51	The photoluminescence study of an organic-inorganic hybrid Keggin-type polyoxotungstate: A better excitation efficiency between polyoxometalate and thulium. <i>Inorganic Chemistry Communication</i> , 2022, 143, 109718.	3.9	0