

Zhen Zhou

List of Publications by Year in descending order

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papers

1,043
citations

687220

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32
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docs citations

42
times ranked

1351
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#	ARTICLE	IF	CITATIONS
1	Metal-Organic Polymers Containing Discrete Single-Walled Nanotube as a Heterogeneous Catalyst for the Cycloaddition of Carbon Dioxide to Epoxides. <i>Journal of the American Chemical Society</i> , 2015, 137, 15066-15069.	6.6	273
2	Alkyne Activation by a Porous Silver Coordination Polymer for Heterogeneous Catalysis of Carbon Dioxide Cycloaddition. <i>ACS Catalysis</i> , 2017, 7, 2248-2256.	5.5	137
3	Multiresponsive Luminescent Sensitivities of a 3D Cd-CP with Visual Turn-on and Ratiometric Sensing toward Al ³⁺ and Cr ³⁺ as Well as Turn-off Sensing toward Fe ³⁺ . <i>Inorganic Chemistry</i> , 2020, 59, 3828-3837.	1.9	94
4	New <i>rh</i> -Type Metal-Organic Frameworks Decorated with Acylamide Groups for Efficient Carbon Dioxide Capture and Chemical Fixation from Raw Power Plant Flue Gas. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31746-31756.	4.0	81
5	Nona-copper(ii)-containing 18-tungsto-8-arsenate(iii) exhibits antitumor activity. <i>Chemical Communications</i> , 2013, 49, 5189.	2.2	73
6	A Crown-Shaped 24-Molybdate Cluster Constructed by Organotriphosphonate Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 8285-8287.	1.9	46
7	A Lanthanide-Containing Coordination Polymer Using Tetraphenylethene-Based Linkers with Selective Fe ³⁺ Sensing and Efficient Iodine Adsorption Activities. <i>Inorganic Chemistry</i> , 2020, 59, 16644-16653.	1.9	38
8	ZIF-8/covalent organic framework for enhanced CO ₂ photocatalytic reduction in gas-solid system. <i>Chemical Engineering Journal</i> , 2022, 450, 138040.	6.6	37
9	Assembly of Dimeric and Tetrameric Complexes of Polyoxomolybdobisphosphonates Built from [(Mo ₃ O ₈){O ₃ PC(O)(CH ₂ -3-C ₅ NH ₅)PO ₃]} ₂ Subunits. <i>Crystal Growth and Design</i> , 2013, 13, 2540-2547.	1.4	30
10	Flexible-Ligand-Based Self-adaptive Metal-Organic Material for Supramolecular Selective Recognition of Similar Natural Molecules. <i>Inorganic Chemistry</i> , 2019, 58, 4067-4070.	1.9	18
11	An unprecedented hetero-bimetallic three-dimensional spin crossover coordination polymer based on the tetrahedral [Hg(SeCN) ₄] ₂ building block. <i>Chemical Communications</i> , 2019, 55, 4607-4610.	2.2	17
12	Recent Advance on Chemical Fixation of Carbon Dioxide by Metal-organic Frameworks as Heterogeneous Catalysts. <i>Current Organic Chemistry</i> , 2018, 22, 1809-1824.	0.9	17
13	A Versatile Porous Silver-Coordinated Material for the Heterogeneous Catalysis of Chemical Conversion with Propargylic Alcohols and CO ₂ . <i>Nanomaterials</i> , 2019, 9, 1566.	1.9	15
14	Ir-Porphyrin-Based Metal-Organic Framework as a Dual Metallo- and Photocatalyst for Inert Alkyl C ₃ -H Bond Activation and Direct Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10925-10932.	4.0	14
15	Manganese(III) Porphyrin-Based Magnetic Materials. <i>Topics in Current Chemistry</i> , 2019, 377, 18.	3.0	12
16	Self-assembly of two ring-shaped hexanuclear Mo(vi) clusters. <i>CrystEngComm</i> , 2013, 15, 5452.	1.3	11
17	Three organic-inorganic hybrid B-Anderson polyoxoanions as building blocks: syntheses, structures, and characterization of [(C ₆ H ₅ NO ₂) ₂ Ln(H ₂ O) ₆](CrMo ₆ O ₂₄ H ₆)·2C ₆ H ₅ NO ₂ ·6H ₂ O (Ln = Sm, Dy, Er). <i>Journal of Coordination Chemistry</i> , 2013, 66, 1058-1067.		11
18	Unconventional dihydrogen-bond interaction induced cyanide-bridged chiral nano-sized magnetic molecular wheel: synthesis, crystal structure and systematic theoretical magnetism investigation. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3623-3633.	2.7	11

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19	A thermal- and light-induced switchable one-dimensional rare loop-like spin crossover coordination polymer. <i>Dalton Transactions</i> , 2019, 48, 17014-17021.	1.6	10
20	<i>In situ</i> cleavage and rearrangement synthesis of an easy-to-obtain and highly stable Cu(μ_2)-based MOF for efficient heterogeneous catalysis of carbon dioxide conversion. <i>CrystEngComm</i> , 2021, 23, 6307-6314.	1.3	9
21	Rapid and selective adsorption capacity towards cationic dye with an anionic functionalized Anderson-type polyoxometalate. <i>Inorganic Chemistry Communication</i> , 2021, 133, 108988.	1.8	9
22	Heterobimetallic complexes from 0D clusters to 3D networks based on various polycyanometallates and [Cu(μ_2)] $_2$ (dmpn = 2,2-dimethyl-1,3-diaminopropane): synthesis, crystal structures and magnetic properties. <i>CrystEngComm</i> , 2020, 22, 2806-2816.	1.3	8
23	A thiourea-functionalized metal-organic macrocycle for the catalysis of Michael additions and prominent size-selective effect. <i>Dalton Transactions</i> , 2017, 46, 4086-4092.	1.6	7
24	Various Structural Types of Cyanide-Bridged Fe(II)-Mn(III) Bimetallic Coordination Polymers (CPs) and Polynuclear Clusters Based-on A New mer-Tricyanoiron(III) Building Block: Synthesis, Crystal Structures, and Magnetic Properties. <i>Polymers</i> , 2019, 11, 1585.	2.0	7
25	A multifunctional anionic metal-organic framework for high proton conductivity and photoreduction of CO $_2$ induced by cation exchange. <i>Dalton Transactions</i> , 2022, 51, 4798-4805.	1.6	7
26	Construction of solvent-dependent self-assembled porous Ni(μ_2)-coordinated frameworks as effective catalysts for chemical transformation of CO $_2$. <i>RSC Advances</i> , 2016, 6, 108010-108016.	1.7	6
27	Photocatalytic activity of an Anderson-type polyoxometalate with mixed copper(I)/copper(II) ions for visible-light enhancing heterogeneous catalysis. <i>Journal of Solid State Chemistry</i> , 2022, 310, 123052.	1.4	6
28	Efficient hydrolytic cleavage of phosphodiester with a lanthanide-based metal-organic framework. <i>Journal of Solid State Chemistry</i> , 2021, 293, 121820.	1.4	5
29	Synthesis of a tetraphenylethylene-based metal-organic framework as the luminescent sensor for selective sensing of Cr $2O_7^{2-}$ in aqueous solution. <i>Inorganic Chemistry Communication</i> , 2021, 127, 108550.	1.8	5
30	One-dimensional cyanide-bridged Fe(III)-Mn(II) magnetic complexes with different configurations derived from a new pentacyanoiron(III) building block. <i>Transition Metal Chemistry</i> , 2020, 45, 373-380.	0.7	5
31	A new three-dimensional cobalt(II) coordination polymer based on V-shaped 3,4-dioxybenzoate: synthesis, crystal structure and magnetic properties. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 990-995.	0.2	4
32	Construction of a porous Cu(II)-coordinated framework for the catalytic properties of cycloaddition of carbon dioxide to epoxides. <i>Inorganic Chemistry Communication</i> , 2019, 106, 22-26.	1.8	4
33	High conversion and selectivity of photodimerization under air conditions by supramolecular oxidation restraint within a metallocage-like nanoreactor. <i>CrystEngComm</i> , 2020, 22, 5411-5415.	1.3	4
34	Spin Crossover in a Series of Non-Hofmann-Type Fe(II) Coordination Polymers Based on [Hg(μ_3)] $^+$ or [Hg(μ_4)] $^{2+}$ Building Blocks. <i>Inorganic Chemistry</i> , 2021, 60, 11048-11057.	1.9	3
35	A cyanide-bridged Fe(III)-Mn(II) heterobimetallic one-dimensional coordination polymer: synthesis, crystal structure, experimental and theoretical magnetism investigation. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1475-1481.	0.2	3
36	Killing two birds with one stone: 2D+2D \rightarrow 3D parallel stacking and 3D self-penetrating structures in one reaction and their crystal-to-crystal transformation. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 657-666.	0.2	2

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37	Self-assembly of a cobalt(II)-based metal-organic framework as an effective water-splitting heterogeneous catalyst for light-driven hydrogen production. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 616-624.	0.2	2
38	Tuning of crystallization method and ligand conformation to give a mononuclear compound or two-dimensional SCO coordination polymer based on a new semi-rigid V-shaped bis-pyridyl bis-amide ligand. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 412-418.	0.2	1
39	Nickel-Catalyzed Reductive Cross-Coupling of (Hetero)aryl Halides with 2-Chloro-1,1-difluoroethane: Facile Access to 2,2-Difluoroethylated Aromatics. <i>Asian Journal of Organic Chemistry</i> , 0, , .	1.3	1
40	A rare octacoordinated mononuclear iron(III) spin-crossover compound: synthesis, crystal structure and magnetic properties. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 856-862.	0.2	0
41	MOF-Based Chemical Fixation of Carbon Dioxide into Value-Added Fine Chemicals. <i>ACS Symposium Series</i> , 0, , 239-267.	0.5	0