

Dong-Dong Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

2,313

citations

23

h-index

47

g-index

71

ext. papers

2,859

ext. citations

9.3

avg, IF

5.09

L-index

#	Paper	IF	Citations
67	Tuning the gating energy barrier of metal-organic framework for molecular sieving. <i>Chem</i> , 2021 , 7, 1006-1019	10.9	16
66	Metastable 1T phase group VI B transition metal dichalcogenide crystals. <i>Nature Materials</i> , 2021 , 20, 1113-1120	27	36
65	A partially fluorinated ligand for two super-hydrophobic porous coordination polymers with classic structures and increased porosities. <i>National Science Review</i> , 2021 , 8, nwaa094	10.8	10
64	Multiple C-H \cdots anion and N-H \cdots anion hydrogen bond directed two-dimensional crystalline nanosheets with precise distance control of surface charges for enhanced DNA capture. <i>Soft Matter</i> , 2021 , 17, 9125-9130	3.6	0
63	Solvent-Controlled Construction of Molecular Chains and Bowls/Sieves from a Bent Dipyridyl Ligand. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 2523-2528	4.9	0
62	Red-emitting CaSc ₂ O ₄ :Eu ³⁺ phosphor for NUV-based warm white LEDs: structural elucidation and Hirshfeld surface analysis. <i>International Journal of Energy Research</i> , 2020 , 44, 8328-8339	4.5	15
61	Structural evolution from a fence-like to pillared-layer metal-organic framework for the stable oxygen evolution reaction. <i>Chemical Communications</i> , 2020 , 56, 7722-7725	5.8	7
60	Nitroprusside as a promising building block to assemble an organic-inorganic hybrid for thermo-responsive switching materials. <i>Chemical Communications</i> , 2020 , 56, 5488-5491	5.8	10
59	Two Isostructural Flexible Porous Coordination Polymers Showing Contrasting Single-Component and Mixture Adsorption Properties for Propylene/Propane. <i>Inorganic Chemistry</i> , 2020 , 59, 6047-6052	5.1	12
58	A Hydrogen-Bonded yet Hydrophobic Porous Molecular Crystal for Molecular-Sieving-like Separation of Butane and Isobutane. <i>Angewandte Chemie</i> , 2020 , 132, 23522-23528	3.6	10
57	Tuning the packing, interpenetration, and porosity of two-dimensional networks by metal ions and ligand side groups. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3424-3430	6.8	2
56	A Metal-Ligand Layer Compatible with Various Types of Pillars for New Porous Coordination Polymers. <i>Crystal Growth and Design</i> , 2020 , 20, 7021-7026	3.5	0
55	A Hydrogen-Bonded yet Hydrophobic Porous Molecular Crystal for Molecular-Sieving-like Separation of Butane and Isobutane. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23322-23328	16.4	16
54	On-surface isostructural transformation from a hydrogen-bonded network to a coordination network for tuning the pore size and guest recognition. <i>Chemical Science</i> , 2020 , 12, 1272-1277	9.4	1
53	Adsorptive separation of carbon dioxide: From conventional porous materials to metal-organic frameworks. <i>EnergyChem</i> , 2019 , 1, 100016	36.9	64
52	Multistep evolution from a metal-organic framework to ultrathin nanosheets. <i>Science Bulletin</i> , 2019 , 64, 964-967	10.6	25
51	Simultaneous Improvement of Mechanical and Fire-Safety Properties of Polymer Composites with Phosphonate-Loaded MOF Additives. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20325-20332	9.5	41

50	Supercooling Behavior and Dipole-Glass-like Relaxation in a Three-Dimensional Water Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5645-5649	16.4	6
49	Partially Fluorinated Cu(I) Triazolate Frameworks with High Hydrophobicity, Porosity, and Luminescence Sensitivity. <i>Inorganic Chemistry</i> , 2019 , 58, 3944-3949	5.1	9
48	Selective Aerobic Oxidation of a Metal-Organic Framework Boosts Thermodynamic and Kinetic Propylene/Propane Selectivity. <i>Angewandte Chemie</i> , 2019 , 131, 7774-7778	3.6	22
47	Selective Aerobic Oxidation of a Metal-Organic Framework Boosts Thermodynamic and Kinetic Propylene/Propane Selectivity. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7692-7696	16.4	63
46	Intermediate-sized molecular sieving of styrene from larger and smaller analogues. <i>Nature Materials</i> , 2019 , 18, 994-998	27	74
45	Single-side and double-side swing behaviours of a flexible porous coordination polymer with a rhombic-lattice structure. <i>CrystEngComm</i> , 2019 , 21, 1872-1875	3.3	
44	Non-3d Metal Modulation of a Cobalt Imidazolate Framework for Excellent Electrocatalytic Oxygen Evolution in Neutral Media. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 139-143	16.4	72
43	Non-3d Metal Modulation of a Cobalt Imidazolate Framework for Excellent Electrocatalytic Oxygen Evolution in Neutral Media. <i>Angewandte Chemie</i> , 2019 , 131, 145-149	3.6	11
42	Electrochemical Exfoliation of Pillared-Layer Metal-Organic Framework to Boost the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4632-4636	16.4	198
41	Electrochemical Exfoliation of Pillared-Layer Metal-Organic Framework to Boost the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2018 , 130, 4722-4726	3.6	63
40	Tuning Connectivity and Flexibility of Two Zinc-Triazolate-Carboxylate Type Porous Coordination Polymers. <i>Crystal Growth and Design</i> , 2018 , 18, 2694-2698	3.5	15
39	Controlling flexibility of metal-organic frameworks. <i>National Science Review</i> , 2018 , 5, 907-919	10.8	150
38	Mesoporous Metal-Organic Frameworks with Exceptionally High Working Capacities for Adsorption Heat Transformation. <i>Advanced Materials</i> , 2018 , 30, 1704350	24	29
37	CaLu(AlO)(BO) : Sm: a novel red-emitting phosphor with high colour purity for NUV-based warm white LEDs. <i>RSC Advances</i> , 2018 , 8, 40693-40700	3.7	18
36	Direct synthesis of an aliphatic amine functionalized metal-organic framework for efficient CO ₂ removal and CH ₄ purification. <i>CrystEngComm</i> , 2018 , 20, 5969-5975	3.3	9
35	Modular and Stepwise Synthesis of a Hybrid Metal-Organic Framework for Efficient Electrocatalytic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1778-1781	16.4	273
34	A New Isomeric Porous Coordination Framework Showing Single-Crystal to Single-Crystal Structural Transformation and Preferential Adsorption of 1,3-Butadiene from C ₄ Hydrocarbons. <i>Crystal Growth and Design</i> , 2017 , 17, 2166-2171	3.5	22
33	Nitrogen-doped porous carbons derived from isomeric metal azolate frameworks. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24263-24268	13	16

32	Diverse coordination polymers from a new bent dipyriddy-type ligand 3,6-di(pyridin-4-yl)-9H-carbazole. <i>CrystEngComm</i> , 2017 , 19, 6164-6169	3.3	3
31	Hyperfine adjustment of flexible pore-surface pockets enables smart recognition of gas size and quadrupole moment. <i>Chemical Science</i> , 2017 , 8, 7560-7565	9.4	34
30	A novel pillared-layer-type porous coordination polymer featuring three-dimensional pore system and high methane storage capacity. <i>Science China Chemistry</i> , 2016 , 59, 970-974	7.9	14
29	Flexible, Luminescent Metal-Organic Frameworks Showing Synergistic Solid-Solution Effects on Porosity and Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 16021-16025	16.4	42
28	Plastic Crystals with Polar Halochromate Anion: Thermosensitive Dielectrics Based upon Plastic Transition and Dipole Rotation. <i>Inorganic Chemistry</i> , 2016 , 55, 11418-11425	5.1	31
27	From discrete complex to 1-D coordination polymer by subtle variation of ligand donor: structures and electrical conductivities. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 1837-1843	1.6	1
26	Unique (3,9)-connected porous coordination polymers constructed by tripodal ligands with bent arms. <i>CrystEngComm</i> , 2016 , 18, 4115-4120	3.3	14
25	High-symmetry hydrogen-bonded organic frameworks: air separation and crystal-to-crystal structural transformation. <i>Chemical Communications</i> , 2016 , 52, 4991-4	5.8	39
24	A Metal-Organic Framework with a Pore Size/Shape Suitable for Strong Binding and Close Packing of Methane. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4674-8	16.4	111
23	Porous Metal Azolate Frameworks 2016 , 309-343		1
22	A Metal-Organic Framework with a Pore Size/Shape Suitable for Strong Binding and Close Packing of Methane. <i>Angewandte Chemie</i> , 2016 , 128, 4752-4756	3.6	21
21	Flexible, Luminescent Metal-Organic Frameworks Showing Synergistic Solid-Solution Effects on Porosity and Sensitivity. <i>Angewandte Chemie</i> , 2016 , 128, 16255-16259	3.6	7
20	Monodentate hydroxide as a super strong yet reversible active site for CO ₂ capture from high-humidity flue gas. <i>Energy and Environmental Science</i> , 2015 , 8, 1011-1016	35.4	185
19	Controlling the flexibility and single-crystal to single-crystal interpenetration reconstitution of metal-organic frameworks. <i>Chemical Communications</i> , 2015 , 51, 12665-8	5.8	29
18	Visualizing the distinctly different crystal-to-crystal structural dynamism and sorption behavior of interpenetration-direction isomeric coordination networks. <i>Chemical Science</i> , 2014 , 5, 4755-4762	9.4	50
17	Restraining the motion of a ligand for modulating the structural phase transition in two isomorphous polar coordination polymers. <i>Dalton Transactions</i> , 2014 , 43, 9008-11	4.3	12
16	Drastic enhancement of catalytic activity via post-oxidation of a porous MnII triazolate framework. <i>Chemistry - A European Journal</i> , 2014 , 20, 11303-7	4.8	55
15	Syntheses, Characterization, and Crystal Structures of Two Tetrachlorocobaltate(II) Salts With 4-Substituted Benzyl Triphenylphosphonium. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014 , 44, 672-677		

14	Syntheses, Crystal Structures, and Properties of Two New Ion-Pair Compounds Based Upon bis(1,2,5-thiadiazole-3, 4-dithiolate)nickelate Anion and Substituted Benzyltriphenylphosphium Cations. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2013 , 43, 434-439		2
13	A flexible porous Cu(II) bis-imidazolate framework with ultrahigh concentration of active sites for efficient and recyclable CO ₂ capture. <i>Chemical Communications</i> , 2013 , 49, 11728-30	5.8	50
12	Two Tetrachlorocobaltate(II) Salts With Substituted Benzyl Triphenylphosphonium: Syntheses, Crystal Structures, Weak Interactions, and Magnetic Properties. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012 , 42, 811-817		6
11	Syntheses, crystal structures and properties of two new ion-pair complexes by self-assembly of bis(maleonitriledithiolate)copper(II)/nickel(III) anion and substituted 4-dimethylaminopyridinium. <i>Synthetic Metals</i> , 2012 , 162, 1024-1029	3.6	8
10	Strong and dynamic CO ₂ sorption in a flexible porous framework possessing guest chelating claws. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17380-3	16.4	239
9	Syntheses, Crystal Structures and Antibacterial Properties of Bis(1-benzyl-4?-R-pyridinium)tetrabromocuprate(II) [R = NH ₂ or N(CH ₃) ₂]. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012 , 42, 238-245		3
8	Syntheses, Crystal Structures, Weak Interactions, and Magnetic Properties of Two Tetrachloromanganate(II) Salts With Substituted Benzyl Triphenylphosphonium. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012 , 42, 857-863		4
7	Synthesis, structure and magnetic properties of two complexes based on bis(maleonitriledithiolate)nickel(III)/copper(II) anion and 1-(4?-bromobenzyl)triphenylphosphinium. <i>Journal of Molecular Structure</i> , 2011 , 1006, 419-424	3.4	9
6	Two Tetrachlorocuprate(II) Salts with Substituted Benzyl Pyridinium: Syntheses, Crystal Structures, and Antibacterial Properties. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011 , 41, 525-530		4
5	Two Novel Ion-Pair Complexes Based on Bis(isomaleonitriledithiolate)nickelate Anion and Substituted Triphenylphosphonium: Syntheses, Weak Interactions, and 3D Structures. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011 , 41, 472-478		6
4	A New Tribromocuprate(II) Salt with 4-Bromobenzyltriphenylphosphinium: Synthesis, Spectra, and Crystal Structure. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2010 , 40, 729-733		
3	Two Tetrabromocuprate(II) Salts with Substituted Benzyl Pyridinium: Syntheses, Weak Interactions, Crystal Structures, and Antibacterial Properties. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2010 , 40, 772-778		10
2	An Ionic Pair Complex Containing Bis(maleonitriledithiolato)palladium(II) Anion and Substituted 4-Dimethylaminopyridinium: Synthesis, Weak Interactions and 3D Network Structure. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2009 , 39, 429-433		1
1	Partial Order Disorder Transformation of Interpenetrated Porous Coordination Polymers. <i>CCS Chemistry</i> , 1532-1541	7.2	1