

Wen-Yang Gao

List of Publications by Year in descending order

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docs citations

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times ranked

5687
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-organic metalloporphyrin frameworks: a resurging class of functional materials. <i>Chemical Society Reviews</i> , 2014, 43, 5841-5866.	38.1	547
2	Crystal Engineering of an nbo Topology Metal-Organic Framework for Chemical Fixation of CO ₂ under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2615-2619.	13.8	505
3	A Stable Metal-Organic Framework Featuring a Local Buffer Environment for Carbon Dioxide Fixation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4657-4662.	13.8	283
4	Predicting capacity of hard carbon anodes in sodium-ion batteries using porosity measurements. <i>Carbon</i> , 2014, 76, 165-174.	10.3	279
5	A porous metal-organic metalloporphyrin framework featuring high-density active sites for chemical fixation of CO ₂ under ambient conditions. <i>Chemical Communications</i> , 2014, 50, 5316-5318.	4.1	203
6	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5684-5689.	13.8	161
7	Crystal Engineering of a Microporous, Catalytically Active fcu Topology MOF Using a Custom-Designed Metalloporphyrin Linker. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10082-10085.	13.8	154
8	Tunability of Band Gaps in Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2012, 51, 9039-9044.	4.0	148
9	Inserting CO ₂ into Aryl C-H Bonds of Metal-Organic Frameworks: CO ₂ Utilization for Direct Heterogeneous C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5472-5476.	13.8	129
10	Imparting amphiphobicity on single-crystalline porous materials. <i>Nature Communications</i> , 2016, 7, 13300.	12.8	126
11	Interpenetrating Metal-Organic Metalloporphyrin Framework for Selective CO ₂ Uptake and Chemical Transformation of CO ₂ . <i>Inorganic Chemistry</i> , 2016, 55, 7291-7294.	4.0	115
12	Post-Synthetic Modification of Porphyrin-Encapsulating Metal-Organic Materials by Cooperative Addition of Inorganic Salts to Enhance CO ₂ CH ₄ Selectivity. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9330-9334.	13.8	106
13	A metal-organic metalloporphyrin framework based on an octatopic porphyrin ligand for chemical fixation of CO ₂ with aziridines. <i>Chemical Communications</i> , 2018, 54, 1170-1173.	4.1	104
14	Reducing CO ₂ to dense nanoporous graphene by Mg/Zn for high power electrochemical capacitors. <i>Nano Energy</i> , 2015, 11, 600-610.	16.0	100
15	Precise Molecular Fission and Fusion: Quantitative Self-Assembly and Chemistry of a Metallo-Cuboctahedron. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9224-9229.	13.8	93
16	Quest for highly porous metal-organic metalloporphyrin framework based upon a custom-designed octatopic porphyrin ligand. <i>Chemical Communications</i> , 2012, 48, 7173.	4.1	92
17	Vertex-directed self-assembly of a high symmetry supermolecular building block using a custom-designed porphyrin. <i>Chemical Science</i> , 2012, 3, 2823.	7.4	92
18	A pillared metal-organic framework incorporated with 1,2,3-triazole moieties exhibiting remarkable enhancement of CO ₂ uptake. <i>Chemical Communications</i> , 2012, 48, 8898.	4.1	77

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19	A new microporous carbon material synthesized via thermolysis of a porous aromatic framework embedded with an extra carbon source for low-pressure CO ₂ uptake. <i>Chemical Communications</i> , 2013, 49, 10269.	4.1	76
20	Remote Stabilization of Copper Paddlewheel Based Molecular Building Blocks in Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2015, 27, 2144-2151.	6.7	72
21	Anionic Metal-Organic Framework for Selective Dye Removal and CO ₂ Fixation. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4373-4377.	2.0	66
22	Two homochiral organocatalytic metal organic materials with nanoscopic channels. <i>Chemical Communications</i> , 2013, 49, 7693.	4.1	54
23	Porous Double-Walled Metal Triazolate Framework Based upon a Bifunctional Ligand and a Pentanuclear Zinc Cluster Exhibiting Selective CO ₂ Uptake. <i>Inorganic Chemistry</i> , 2012, 51, 4423-4425.	4.0	52
24	The local electric field favours more than exposed nitrogen atoms on CO ₂ capture: a case study on the <i>trb</i> -type MOF platform. <i>Chemical Communications</i> , 2015, 51, 9636-9639.	4.1	48
25	Porous metal-organic framework based on a macrocyclic tetracarboxylate ligand exhibiting selective CO ₂ uptake. <i>CrystEngComm</i> , 2012, 14, 6115.	2.6	47
26	Visualizing Structural Transformation and Guest Binding in a Flexible Metal-Organic Framework under High Pressure and Room Temperature. <i>ACS Central Science</i> , 2018, 4, 1194-1200.	11.3	46
27	Two rare indium-based porous metal-metalloporphyrin frameworks exhibiting interesting CO ₂ uptake. <i>CrystEngComm</i> , 2013, 15, 9320.	2.6	45
28	In Operando Analysis of Diffusion in Porous Metal-Organic Framework Catalysts. <i>Chemistry - A European Journal</i> , 2019, 25, 3465-3476.	3.3	42
29	Inserting CO ₂ into Aryl C-H Bonds of Metal-Organic Frameworks: CO ₂ Utilization for Direct Heterogeneous C-H Activation. <i>Angewandte Chemie</i> , 2016, 128, 5562-5566.	2.0	41
30	A new family of anionic organic-inorganic hybrid doughnut-like nanostructures. <i>Chemical Communications</i> , 2015, 51, 9223-9226.	4.1	40
31	Quest for a highly connected robust porous metal-organic framework on the basis of a bifunctional linear linker and a rare heptanuclear zinc cluster. <i>Chemical Communications</i> , 2013, 49, 10516.	4.1	35
32	Probing Substrate Diffusion in Interstitial MOF Chemistry with Kinetic Isotope Effects. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3676-3681.	13.8	34
33	Investigation of prototypal MOFs consisting of polyhedral cages with accessible Lewis-acid sites for quinoline synthesis. <i>Chemical Communications</i> , 2015, 51, 4827-4829.	4.1	33
34	An effective strategy to boost the robustness of metal-organic frameworks via introduction of size-matching ligand braces. <i>Chemical Communications</i> , 2016, 52, 1971-1974.	4.1	33
35	A Stable Metal-Organic Framework Featuring a Local Buffer Environment for Carbon Dioxide Fixation. <i>Angewandte Chemie</i> , 2018, 130, 4747-4752.	2.0	32
36	Sulfonated Peptides as a New Class of Nonnatural Helical Foldamer. <i>Chemistry - A European Journal</i> , 2015, 21, 2501-2507.	3.3	30

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37	The diverse structures of Cd(ii) coordination polymers with 1,3,5-benzenetribenzoate tuned by organic bases. <i>CrystEngComm</i> , 2011, 13, 5825.	2.6	27
38	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. <i>Angewandte Chemie</i> , 2018, 130, 5786-5791.	2.0	27
39	A Mixed-Metal Porphyrinic Framework Promoting Gas-Phase CO ₂ Photoreduction without Organic Sacrificial Agents. <i>ChemSusChem</i> , 2020, 13, 6273-6277.	6.8	26
40	A new photoactive Ru(II)-tris(2,2'-bipyridine) templated Zn(II) benzene-1,4-dicarboxylate metal organic framework: structure and photophysical properties. <i>Dalton Transactions</i> , 2015, 44, 5331-5337.	3.3	25
41	Open metal sites dangled on cobalt trigonal prismatic clusters within porous MOF for CO ₂ capture. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 369-372.	6.0	23
42	Large Thermal Motion in Halide Perovskites. <i>Scientific Reports</i> , 2017, 7, 9401.	3.3	23
43	Measuring and Modulating Substrate Confinement during Nitrogen-Atom Transfer in a Ru ₂ -Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 19203-19207.	13.7	21
44	Imparting Brønsted acidity into a zeolitic imidazole framework. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 393-396.	6.0	19
45	Advanced Photoemission Spectroscopy Investigations Correlated with DFT Calculations on the Self-Assembly of 2D Metal Organic Frameworks Nano Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31403-31412.	8.0	17
46	Investigation of a microporous iron(III) porphyrin framework derived cathode catalyst in PEM fuel cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15621-15630.	10.3	15
47	Templating metastable Pd ₂ carboxylate aggregates. <i>Chemical Science</i> , 2019, 10, 1823-1830.	7.4	15
48	Theoretical Insights into the Tuning of Metal Binding Sites of Paddlewheels in Metal-Organic Frameworks. <i>ChemPhysChem</i> , 2015, 16, 3170-3179.	2.1	14
49	Two highly porous single-crystalline zirconium-based metal-organic frameworks. <i>Science China Chemistry</i> , 2016, 59, 980-983.	8.2	14
50	A Robust Metal-Metalloporphyrin Framework Based upon a Secondary Building Unit of Infinite Nickel Oxide Chain. <i>Crystal Growth and Design</i> , 2016, 16, 1005-1009.	3.0	14
51	Iodosylbenzene Coordination Chemistry Relevant to Metal-Organic Framework Catalysis. <i>Inorganic Chemistry</i> , 2019, 58, 10543-10553.	4.0	14
52	The effect of surfactant-free TiO ₂ surface hydroxyl groups on physicochemical, optical and self-cleaning properties of developed coatings on polycarbonate. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 505316.	2.8	13
53	Atomically Precise Crystalline Materials Based on Kinetically Inert Metal Ions via Reticular Mechanopolymerization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10878-10883.	13.8	13
54	Beyond Custom Design of Organic Ligands: An Integrative Strategy for Metal-Organic Frameworks Design. <i>Comments on Inorganic Chemistry</i> , 2014, 34, 125-141.	5.2	12

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55	The synthesis of head-to-tail cyclic sulfono- $\hat{1}^3$ -AApeptides. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 672-676.	2.8	12
56	Probing Substrate Diffusion in Interstitial MOF Chemistry with Kinetic Isotope Effects. <i>Angewandte Chemie</i> , 2018, 130, 3738-3743.	2.0	12
57	Metallopolymerization as a Strategy to Translate Ligand-Modulated Chemoselectivity to Porous Catalysts. <i>Organometallics</i> , 2019, 38, 3436-3443.	2.3	9
58	Mechanochemistry of Group 4 Element-Based Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2021, 60, 16079-16084.	4.0	9
59	A lanthanide metal-organic framework based on a custom-designed macrocyclic ligand. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1844-1851.	2.2	6
60	Leveraging Exchange Kinetics for the Synthesis of Atomically Precise Porous Catalysts. <i>ChemCatChem</i> , 2021, 13, 2117-2131.	3.7	6
61	A porous supramolecular ionic solid. <i>Chemical Communications</i> , 2021, 57, 7248-7251.	4.1	5
62	Synthesis of atomically precise single-crystalline Ru ₂ -based coordination polymers. <i>Dalton Transactions</i> , 2020, 49, 16077-16081.	3.3	3
63	Atomically Precise Crystalline Materials Based on Kinetically Inert Metal Ions via Reticular Mechanopolymerization. <i>Angewandte Chemie</i> , 2020, 132, 10970-10975.	2.0	3
64	Titelbild: Precise Molecular Fission and Fusion: Quantitative Self-Assembly and Chemistry of a Metallo-Cuboctahedron (<i>Angew. Chem.</i> 32/2015). <i>Angewandte Chemie</i> , 2015, 127, 9259-9259.	2.0	0