Chuan-De Wu

List of Publications by Year
in descending order

73 papers	4,176 citations	147726 31 h-index	110317 64 g-index
73 all docs	73 docs citations	73 times ranked	5090 citing authors

#	Article	IF	Citations
1	Porous Metalâ€“Organic Frameworks for Heterogeneous Biomimetic Catalysis. Accounts of Chemical Research, 2014, 47, 1199-1207.	7.6	661
2	A Multifunctional Organicâ€“Inorganic Hybrid Structure Based on Mn^{III}â€“Porphyrin and Polyoxometalate as a Highly Effective Dye Scavenger and Heterogenous Catalyst. Journal of the American Chemical Society, 2012, 134, 87-90.	6.6	408
3	Incorporation of Molecular Catalysts in Metalâ€“Organic Frameworks for Highly Efficient Heterogeneous Catalysis. Advanced Materials, 2017, 29, 1605446.	11.1	275
4	Color tunable and white light emitting Tb3+ and Eu3+ doped lanthanide metalâ€“organic framework materials. Journal of Materials Chemistry, 2012, 22, 3210.	6.7	200
5	Polarized three-photon-pumped laser in a single MOF microcrystal. Nature Communications, 2016, 7, 11087.	5.8	165
6	A Sn^{IV}â€“Porphyrin-Based Metalâ€“Organic Framework for the Selective Photo-Oxygenation of Phenol and Sulfides. Inorganic Chemistry, 2011, 50, 5318-5320.	1.9	150
7	Designed fabrication of biomimetic metalâ€“organic frameworks for catalytic applications. Coordination Chemistry Reviews, 2019, 378, 445-465.	9.5	131
8	A Metalâ€“Organic Framework with Open Metal Sites for Enhanced Confinement of Sulfur and Lithiumâ€“Sulfur Battery of Long Cycling Life. Crystal Growth and Design, 2013, 13, 5116-5120.	1.4	124
9	A Doubly Interpenetrated Metalâ€“Organic Framework with Open Metal Sites and Suitable Pore Sizes for Highly Selective Separation of Small Hydrocarbons at Room Temperature. Crystal Growth and Design, 2013, 13, 2094-2097.	1.4	96
10	A new metalâ€“organic framework with potential for adsorptive separation of methane from carbon dioxide, acetylene, ethylene, and ethane established by simulated breakthrough experiments. Journal of Materials Chemistry A, 2014, 2, 2628.	5.2	91
11	A cationic microporous metalâ€“organic framework for highly selective separation of small hydrocarbons at room temperature. Journal of Materials Chemistry A, 2013, 1, 9916.	5.2	83
12	Immobilization of polyoxometalates in crystalline solids for highly efficient heterogeneous catalysis. Dalton Transactions, 2016, 45, 10101-10112.	1.6	83
13	In Situ Generation and Stabilization of Accessible Cu/Cu₂O Heterojunctions inside Organic Frameworks for Highly Efficient Catalysis. Angewandte Chemie - International Edition, 2020, 59, 1925-1931.	7.2	81
14	Doubly Interpenetrated Metalâ€“Organic Framework for Highly Selective C₂H₂/CH₄ and C₂H₂/CO₂ Separation at Room Temperature. Crystal Growth and Design, 2016, 16, 7194-7197.	1.4	80
15	Structural Transformation of Porous Polyoxometalate Frameworks and Highly Efficient Biomimetic Aerobic Oxidation of Aliphatic Alcohols. ACS Catalysis, 2017, 7, 6573-6580.	5.5	68
16	Expanded Organic Building Units for the Construction of Highly Porous Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2013, 19, 14886-14894.	1.7	66
17	Rational construction of metalâ€“organic frameworks for heterogeneous catalysis. Inorganic Chemistry Frontiers, 2014, 1, 721-734.	3.0	64
18	A microporous metalâ€“organic framework assembled from an aromatic tetracarboxylate for H2 purification. Journal of Materials Chemistry A, 2013, 1, 2543.	5.2	62

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19	Facile preparation of biomass lignin-based hydroxyethyl cellulose super-absorbent hydrogel for dye pollutant removal. International Journal of Biological Macromolecules, 2019, 137, 939-947.	3.6	61
20	Four Novel Coordination Polymers Based on a Flexible Zwitterionic Ligand and Their Framework Dependent Luminescent Properties. Crystal Growth and Design, 2010, 10, 4590-4595.	1.4	55
21	Modular synthesis of Î±-aryl Î²-perfluoroalkyl ketones <i>via</i> N-heterocyclic carbene catalysis. Chemical Communications, 2020, 56, 3801-3804.	2.2	55
22	Incorporation of Fe-phthalocyanines into a porous organic framework for highly efficient photocatalytic oxidation of arylalkanes. Applied Catalysis B: Environmental, 2018, 234, 290-295.	10.8	52
23	Recent advances on porous homochiral coordination polymers containing amino acid synthons. CrystEngComm, 2014, 16, 4907-4918.	1.3	51
24	Visible-Light Photocatalytic Synthesis of Amines from Imines via Transfer Hydrogenation Using Quantum Dots as Catalysts. Journal of Organic Chemistry, 2018, 83, 11886-11895.	1.7	47
25	Five porphyrin-core-dependent metalâ€"organic frameworks and framework-dependent fluorescent properties. CrystEngComm, 2012, 14, 4850.	1.3	46
26	Assembly of a Metalloporphyrinâ€"Polyoxometalate Hybrid Material for Highly Efficient Activation of Molecular Oxygen. Inorganic Chemistry, 2016, 55, 7295-7300.	1.9	46
27	Two Chiral Nonlinear Optical Coordination Networks Based on Interwoven Two-Dimensional Square Grids of Double Helices. Crystal Growth and Design, 2010, 10, 5291-5296.	1.4	44
28	Transformation of Metalâ€Organic Frameworks into Stable Organic Frameworks with Inherited Skeletons and Catalytic Properties. Angewandte Chemie - International Edition, 2019, 58, 8119-8123.	7.2	41
29	A mesoporous lanthanideâ€"organic framework constructed from a dendritic hexacarboxylate with cages of 2.4 nm. CrystEngComm, 2013, 15, 9328.	1.3	36
30	Four Honeycomb Metalâ€"Organic Frameworks with a Flexible Tripodal Polyaromatic Acid. Crystal Growth and Design, 2013, 13, 1429-1437.	1.4	36
31	A new MOF-5 homologue for selective separation of methane from C2 hydrocarbons at room temperature. APL Materials, 2014, 2, .	2.2	33
32	A Highly Sensitive Luminescent Dye@MOF Composite for Probing Different Volatile Organic Compounds. ChemPlusChem, 2016, 81, 758-763.	1.3	31
33	Transformation of Metalâ€Organic Frameworks into Stable Organic Frameworks with Inherited Skeletons and Catalytic Properties. Angewandte Chemie, 2019, 131, 8203-8207.	1.6	31
34	A series of metalâ€"organic coordination polymers containing multiple chiral centers. CrystEngComm, 2011, 13, 1570-1579.	1.3	28
35	Biomimetic Activation of Molecular Oxygen with a Combined Metalloporphyrinic Framework and Coâ€catalyst Platform. ChemCatChem, 2017, 9, 1192-1196.	1.8	28
36	Synthesis of a Bis(1,2,3â€phenylene) Cryptand and Its Dualâ€Response Binding to Paraquat and Diquat. European Journal of Organic Chemistry, 2010, 2010, 6804-6809.	1.2	27

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37	Syntheses, crystal structures and optical properties of six homochiral coordination networks based on phenyl acid-amino acids. CrystEngComm, 2011, 13, 6422.	1.3	27
38	Carboxylic Acid Initiated Organocatalytic Ring-Opening Polymerization of <i>N</i>-Sulfonyl Aziridines: An Easy Access to Well-Controlled Polyaziridine-Based Architectural and Functionalized Polymers. Macromolecules, 2019, 52, 8793-8802.	2.2	26
39	A Versatile Metalloporphyrinic Framework Platform for Highly Efficient Bioinspired, Photoâ€•and Asymmetric Catalysis. Angewandte Chemie - International Edition, 2019, 58, 168-172.	7.2	25
40	Tuning the pore structures and photocatalytic properties of a 2D covalent organic framework with multi-branched photoactive moieties. Nanoscale, 2020, 12, 16136-16142.	2.8	25
41	Suspending ionic single-atom catalysts in porphyrinic frameworks for highly efficient aerobic oxidation at room temperature. Journal of Catalysis, 2018, 358, 43-49.	3.1	24
42	Creation of Redoxâ€Active PdS<i>_x</i> Nanoparticles Inside the Defect Pores of MOF UiOâ€66 with Unique Semihydrogenation Catalytic Properties. Advanced Functional Materials, 2020, 30, 1908519.	7.8	24
43	A NbO type microporous metalâ€“organic framework constructed from a naphthalene derived ligand for CH₄and C₂H₂storage at room temperature. RSC Advances, 2014, 4, 49457-49461.	1.7	23
44	2-Azaallyl Anion Initiated Ring-Opening Polymerization of <i>N</i>-Sulfonyl Aziridines: One-Pot Synthesis of Primary Amine-Ended Telechelic Polyaziridines. Macromolecules, 2019, 52, 3888-3896.	2.2	23
45	A Noninterpenetrated Metalâ€“Organic Framework Built from an Enlarged Tetracarboxylic Acid for Small Hydrocarbon Separation. Crystal Growth and Design, 2015, 15, 4071-4074.	1.4	21
46	Anchoring Zn-phthalocyanines in the pore matrices of UiO-67 to improve highly the photocatalytic oxidation efficiency. Applied Catalysis B: Environmental, 2020, 279, 119350.	10.8	21
47	Heterogeneous catalyzed arylâ€“nitrogen bond formations using a valine derivative bridged metalâ€“organic coordination polymer. Dalton Transactions, 2009, , 6790.	1.6	20
48	Five coordination networks based on zwitterionic ligands: synthesis, crystal structures and optical properties. CrystEngComm, 2012, 14, 847-852.	1.3	20
49	Sulfuryl chloride as a functional additive towards dendrite-free and long-life Li metal anodes. Journal of Materials Chemistry A, 2019, 7, 25003-25009.	5.2	20
50	A robust strategy of homogeneously hybridizing silica and Cu3(BTC)2 to in situ synthesize highly dispersed copper catalyst for furfural hydrogenation. Applied Catalysis A: General, 2020, 596, 117518.	2.2	20
51	In Situ Generation and Stabilization of Accessible Cu/Cu₂O Heterojunctions inside Organic Frameworks for Highly Efficient Catalysis. Angewandte Chemie, 2020, 132, 1941-1947.	1.6	19
52	Synthesis and Catalytic Properties of Porous Metal Silica Materials Templated and Functionalized by Extended Coordination Cages. Inorganic Chemistry, 2020, 59, 767-776.	1.9	16
53	<scp>Oneâ€pot</scp> tandem <scp>ringâ€opening</scp> polymerization of <scp><i>N</i>â€sulfonyl</scp> aziridines and â€œclickâ€•chemistry to produce <scp>wellâ€defined starâ€shaped</scp> polyaziridines. Journal of Polymer Science, 2020, 58, 2116-2125.	2.0	15
54	Improvement of the CO₂ Capture Capability of a Metalâ€“Organic Framework by Encapsulating Dye Molecules inside the Mesopore Space. Crystal Growth and Design, 2017, 17, 2688-2693.	1.4	14

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55	ZIF-67 Derivative Decorated MXene for a Highly Integrated Flexible Self-Powered Photodetector. ACS Applied Materials & Interfaces, 2022, 14, 19725-19735.	4.0	14
56	Formation of a 2D supramolecular water framework via metalâ€“organic unit templating. CrystEngComm, 2010, 12, 688-690.	1.3	12
57	Photocatalytic Hydrogen Evolution Coupled with Production of Highly Valueâ€Added Organic Chemicals by a Composite Photocatalyst CdIn₂S₄@MILâ€53â€SO₃Ni_{1/2}. Chemistry - an Asian Journal, 2021, 16, 1499-1506.	1.7	12
58	Interwrapping Distinct Metal-Organic Frameworks in Dual-MOFs for the Creation of Unique Composite Catalysts. Research, 2021, 2021, 9835935.	2.8	12
59	The crucial roles of guest water in a biocompatible coordination network in the catalytic ring-opening polymerization of cyclic esters: a new mechanistic perspective. Chemical Science, 2020, 11, 3345-3354.	3.7	11
60	Transformation of metalâ€“organic frameworks with retained networks. Chemical Communications, 2022, 58, 8602-8613.	2.2	11
61	Reducing energy barriers of chemical reactions with a nanomicrocell catalyst consisting of integrated active sites in conductive matrices. Science Bulletin, 2019, 64, 385-390.	4.3	10
62	The roles of the coordination modes of bridging ligands for the formation of two 3D metalâ€“organic coordination networks. CrystEngComm, 2010, 12, 3437.	1.3	9
63	Suspending Ion Electrocatalysts in Charged Metalâ€“Organic Frameworks to Improve the Conductivity and Selectivity in Electroorganic Synthesis. Chemistry - an Asian Journal, 2019, 14, 3627-3634.	1.7	9
64	Engineering Bimetallic Centers in Porous Metal Silicate Materials for Hydrogenation of Furfural at Lower Temperature. , 2021, 3, 1249-1257.		9
65	Modifying CsPbX₃ (X = Cl, Br, I) with a Zeolitic Imidazolate Framework through Mechanical Milling for Aqueous Photocatalytic H₂ Evolution. ACS Applied Energy Materials, 2022, 5, 6248-6255.	2.5	9
66	Five intercalating coordination networks based on an identical anionic lamella and diverse hydrated cations. CrystEngComm, 2011, 13, 6027.	1.3	8
67	<i>In situ</i> creation of multi-metallic species inside porous silicate materials with tunable catalytic properties. Chemical Communications, 2021, 57, 6185-6188.	2.2	7
68	Crystal Engineering of Metal-Organic Frameworks for Heterogeneous Catalysis. , 2011, , 271-298.		6
69	Highâ€Loading Pt Singleâ€Atom Catalyst on CeO 2 â€Modified Diatomite Support. Chemistry - an Asian Journal, 2021, 16, 2622-2625.	1.7	6
70	A Versatile Metalloporphyrinic Framework Platform for Highly Efficient Bioinspired, Photoâ€•and Asymmetric Catalysis. Angewandte Chemie, 2019, 131, 174-178.	1.6	4
71	Generation of local redox potential from confined nano-bimetals in porous metal silicate materials for high-performance catalysis. Catalysis Science and Technology, 2022, 12, 4584-4590.	2.1	4
72	Passing the framework skeleton and properties of coordination materials onto organic framework materials. Chemical Communications, 2021, 57, 1348-1351.	2.2	2

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73	Heterostructured Moâ€Doped CoP on MXene Supports Enhanced the Alkaline Hydrogen Evolution Activity. ChemistrySelect, 2022, 7, .	0.7	2