Sihai Yang

List of Publications by Year
in descending order

151 papers	11,293 citations	25014 57 h-index	30894 102 g-index
164 all docs	164 docs citations	164 times ranked	9315 citing authors

#	Article	IF	Citations
1	Supramolecular binding and separation of hydrocarbons within a functionalized porous metalâ€“organic framework. Nature Chemistry, 2015, 7, 121-129.	6.6	530
2	Selectivity and direct visualization of carbon dioxide and sulfur dioxide in a decorated porous host. Nature Chemistry, 2012, 4, 887-894.	6.6	466
3	A partially interpenetrated metalâ€“organic framework for selective hysteretic sorption ofÂcarbon dioxide. Nature Materials, 2012, 11, 710-716.	13.3	430
4	Cation-induced kinetic trapping and enhanced hydrogen adsorption in a modulated anionic metalâ€“organic framework. Nature Chemistry, 2009, 1, 487-493.	6.6	375
5	Direct hydrodeoxygenation of raw woody biomass into liquid alkanes. Nature Communications, 2016, 7, 11162.	5.8	359
6	Selective production of arenes via direct lignin upgrading over a niobium-based catalyst. Nature Communications, 2017, 8, 16104.	5.8	346
7	Exceptionally high H2 storage by a metalâ€“organic polyhedral framework. Chemical Communications, 2009, , 1025.	2.2	316
8	A Robust Binary Supramolecular Organic Framework (SOF) with High CO₂ Adsorption and Selectivity. Journal of the American Chemical Society, 2014, 136, 12828-12831.	6.6	287
9	Metalâ^'Organic Polyhedral Frameworks: High H₂ Adsorption Capacities and Neutron Powder Diffraction Studies. Journal of the American Chemical Society, 2010, 132, 4092-4094.	6.6	281
10	Studies on Metalâ€“Organic Frameworks of Cu(II) with Isophthalate Linkers for Hydrogen Storage. Accounts of Chemical Research, 2014, 47, 296-307.	7.6	261
11	High capacity gas storage by a 4,8-connected metalâ€“organic polyhedral framework. Chemical Communications, 2011, 47, 4487.	2.2	220
12	Selective Adsorption of Sulfur Dioxide in a Robust Metalâ€“Organic Framework Material. Advanced Materials, 2016, 28, 8705-8711.	11.1	214
13	Structural and dynamic studies of substrate binding in porous metalâ€“organic frameworks. Chemical Society Reviews, 2017, 46, 239-274.	18.7	206
14	Porous metalâ€“organic frameworks as emerging sorbents for clean air. Nature Reviews Chemistry, 2019, 3, 108-118.	13.8	202
15	Confinement of Iodine Molecules into Triple-Helical Chains within Robust Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 16289-16296.	6.6	199
16	Unravelling exceptional acetylene and carbon dioxide adsorption within a tetra-amide functionalized metal-organic framework. Nature Communications, 2017, 8, 14085.	5.8	193
17	Proton Conduction in a Phosphonate-Based Metalâ€“Organic Framework Mediated by Intrinsic â€œFree Diffusion inside a Sphereâ€• Journal of the American Chemical Society, 2016, 138, 6352-6355.	6.6	186
18	Control of zeolite pore interior for chemoselective alkyne/olefin separations. Science, 2020, 368, 1002-1006.	6.0	179

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19	Adsorption of iodine in metalâ€“organic framework materials. Chemical Society Reviews, 2022, 51, 3243-3262.	18.7	175
20	Reversible coordinative binding and separation of sulfur dioxide in a robust metalâ€“organic framework with open copper sites. Nature Materials, 2019, 18, 1358-1365.	13.3	171
21	Breaking the Limit of Lignin Monomer Production via Cleavage of Interunit Carbonâ€“Carbon Linkages. CheM, 2019, 5, 1521-1536.	5.8	167
22	Enhancement of H2 adsorption in Li+-exchanged co-ordination framework materials. Chemical Communications, 2008, , 6108.	2.2	164
23	Reversible adsorption of nitrogen dioxide within a robust porous metalâ€“organic framework. Nature Materials, 2018, 17, 691-696.	13.3	162
24	Highly porous and robust scandium-based metalâ€“organic frameworks for hydrogen storage. Chemical Communications, 2011, 47, 8304.	2.2	156
25	Cation-induced chirality in a bifunctional metal-organic framework for quantitative enantioselective recognition. Nature Communications, 2019, 10, 5117.	5.8	150
26	Exceptional Adsorption and Binding of Sulfur Dioxide in a Robust Zirconium-Based Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 15564-15567.	6.6	149
27	Synthesis of metalâ€“organic frameworks by continuous flow. Green Chemistry, 2014, 16, 3796-3802.	4.6	137
28	A mesoporous metalâ€“organic framework constructed from a nanosized C3-symmetric linker and [Cu24(isophthalate)24] cuboctahedra. Chemical Communications, 2011, 47, 9995.	2.2	130
29	Irreversible Network Transformation in a Dynamic Porous Host Catalyzed by Sulfur Dioxide. Journal of the American Chemical Society, 2013, 135, 4954-4957.	6.6	123
30	Selective CO2 uptake and inverse CO2/C2H2 selectivity in a dynamic bifunctional metalâ€“organic framework. Chemical Science, 2012, 3, 2993.	3.7	117
31	Capture of nitrogen dioxide and conversion to nitric acid in a porous metalâ€“organic framework. Nature Chemistry, 2019, 11, 1085-1090.	6.6	116
32	Enhancement of H₂ Adsorption in Coordination Framework Materials by Use of Ligand Curvature. Chemistry - A European Journal, 2009, 15, 4829-4835.	1.7	112
33	Selective Hysteretic Sorption of Light Hydrocarbons in a Flexible Metalâ€“Organic Framework Material. Chemistry of Materials, 2016, 28, 2331-2340.	3.2	112
34	Emerging heterogeneous catalysts for biomass conversion: studies of the reaction mechanism. Chemical Society Reviews, 2021, 50, 11270-11292.	18.7	102
35	Porous Metalâ€“Organic Polyhedral Frameworks with Optimal Molecular Dynamics and Pore Geometry for Methane Storage. Journal of the American Chemical Society, 2017, 139, 13349-13360.	6.6	99
36	Integration of mesopores and crystal defects in metal-organic frameworks via templated electrosynthesis. Nature Communications, 2019, 10, 4466.	5.8	90

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37	Ammonia Storage by Reversible Hostâ€“Guest Site Exchange in a Robust Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2018, 57, 14778-14781.	7.2	86
38	Pore with Gate: Enhancement of the Isosteric Heat of Adsorption of Dihydrogen via Postsynthetic Cation Exchange in Metalâ^'Organic Frameworks. Inorganic Chemistry, 2011, 50, 9374-9384.	1.9	84
39	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	11.1	82
40	Structures and H₂ Adsorption Properties of Porous Scandium Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2010, 16, 13671-13679.	1.7	77
41	Direct photo-oxidation of methane to methanol over a mono-iron hydroxyl site. Nature Materials, 2022, 21, 932-938.	13.3	77
42	Modulating supramolecular binding of carbon dioxide in a redox-active porous metal-organic framework. Nature Communications, 2017, 8, 14212.	5.8	75
43	Iodine Adsorption in a Redox-Active Metalâ€“Organic Framework: Electrical Conductivity Induced by Hostâ^'Guest Charge-Transfer. Inorganic Chemistry, 2019, 58, 14145-14150.	1.9	74
44	Quantitative production of butenes from biomass-derived Î³-valerolactone catalysed by hetero-atomic MFI zeolite. Nature Materials, 2020, 19, 86-93.	13.3	74
45	Tailoring porosity and rotational dynamics in a series of octacarboxylate metal-organic frameworks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3056-3061.	3.3	73
46	Quantitative Electro-Reduction of CO₂ to Liquid Fuel over Electro-Synthesized Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 17384-17392.	6.6	73
47	Supramolecular networks stabilise and functionalise black phosphorus. Nature Communications, 2017, 8, 1385.	5.8	72
48	Pore Distortion in a Metalâ€“Organic Framework for Regulated Separation of Propane and Propylene. Journal of the American Chemical Society, 2021, 143, 19300-19305.	6.6	72
49	Metalâ€“organic frameworks in seconds via selective microwave heating. Journal of Materials Chemistry A, 2017, 5, 7333-7338.	5.2	71
50	Enhancement of CO₂ Adsorption and Catalytic Properties by Fe-Doping of [Ga₂(OH)₂(L)] (H₄L = Biphenyl-3,3â€²,5,5â€²-tetracarboxylic Acid), MFM-300(Ga₂). Inorganic Chemistry, 2016, 55, 1076-1088.	1.9	70
51	Modulating proton diffusion and conductivity in metalâ€“organic frameworks by incorporation of accessible free carboxylic acid groups. Chemical Science, 2019, 10, 1492-1499.	3.7	68
52	A Novel BismuthâEBased Metalâ€“Organic Framework for High Volumetric Methane and Carbon Dioxide Adsorption. Chemistry - A European Journal, 2014, 20, 8024-8029.	1.7	67
53	High Ammonia Adsorption in MFM-300 Materials: Dynamics and Charge Transfer in Hostâ€“Guest Binding. Journal of the American Chemical Society, 2021, 143, 3153-3161.	6.6	67
54	Atomically Dispersed Copper Sites in a Metalâ€“Organic Framework for Reduction of Nitrogen Dioxide. Journal of the American Chemical Society, 2021, 143, 10977-10985.	6.6	66

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55	A unique Co@CoO catalyst for hydrogenolysis of biomass-derived 5-hydroxymethylfurfural to 2,5-dimethylfuran. Nature Communications, 2022, 13, .	5.8	66
56	Post-synthetic modulation of the charge distribution in a metalâ€“organic framework for optimal binding of carbon dioxide and sulfur dioxide. Chemical Science, 2019, 10, 1472-1482.	3.7	62
57	Electro-reduction of carbon dioxide at low over-potential at a metalâ€“organic framework decorated cathode. Nature Communications, 2020, 11, 5464.	5.8	62
58	Efficient Separation of Acetylene and Carbon Dioxide in a Decorated Zeolite. Angewandte Chemie - International Edition, 2021, 60, 6526-6532.	7.2	62
59	Acid-Free Conversion of Cellulose to 5-(Hydroxymethyl)furfural Catalyzed by Hot Seawater. Industrial & Engineering Chemistry Research, 2018, 57, 3545-3553.	1.8	61
60	Refinement of pore size at sub-angstrom precision in robust metalâ€“organic frameworks for separation of xylenes. Nature Communications, 2020, 11, 4280.	5.8	61
61	CO Poisoning of Ru Catalysts in CO₂ Hydrogenation under Thermal and Plasma Conditions: A Combined Kinetic and Diffuse Reflectance Infrared Fourier Transform Spectroscopyâ€“Mass Spectrometry Study. ACS Catalysis, 2020, 10, 12828-12840.	5.5	59
62	Enhancement of Proton Conductivity in Nonporous Metalâ€“Organic Frameworks: The Role of Framework Proton Density and Humidity. Chemistry of Materials, 2018, 30, 7593-7602.	3.2	55
63	Observation of Binding and Rotation of Methane and Hydrogen within a Functional Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 9119-9127.	6.6	54
64	Near-critical water, a cleaner solvent for the synthesis of a metalâ€“organic framework. Green Chemistry, 2012, 14, 117-122.	4.6	53
65	Reversible MOF-Based Sensors for the Electrical Detection of Iodine Gas. ACS Applied Materials & Interfaces, 2019, 11, 27982-27988.	4.0	52
66	Purification of Propylene and Ethylene by a Robust Metalâ€“Organic Framework Mediated by Hostâ€“Guest Interactions. Angewandte Chemie - International Edition, 2021, 60, 15541-15547.	7.2	51
67	Enhancement of CO₂ Uptake and Selectivity in a Metalâ€“Organic Framework by the Incorporation of Thiophene Functionality. Inorganic Chemistry, 2018, 57, 5074-5082.	1.9	50
68	Adsorption of Nitrogen Dioxide in a Redox-Active Vanadium Metalâ€“Organic Framework Material. Journal of the American Chemical Society, 2020, 142, 15235-15239.	6.6	50
69	Pore with gate: modulating hydrogen storage in metal-organic framework materials via cation exchange. Faraday Discussions, 2011, 151, 19.	1.6	48
70	Hostâ€“guest selectivity in a series of isoreticular metalâ€“organic frameworks: observation of acetylene-to-alkyne and carbon dioxide-to-amide interactions. Chemical Science, 2019, 10, 1098-1106.	3.7	47
71	Syntheses, structures and magnetic properties of Mn(II), Co(II) and Ni(II) metalâ€“organic frameworks constructed from 1,3,5-benzenetricarboxylate and formate ligands. Inorganica Chimica Acta, 2010, 363, 645-652.	1.2	46
72	Permanent Porosity Derived From the Selfâ€Assembly of Highly Luminescent Molecular Zinc Carbonate Nanoclusters. Angewandte Chemie - International Edition, 2013, 52, 13414-13418.	7.2	46

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73	Amides Do Not Always Work: Observation of Guest Binding in an Amide-Functionalized Porous Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 14828-14831.	6.6	44
74	Adsorption Properties of MFM-400 and MFM-401 with CO₂ and Hydrocarbons: Selectivity Derived from Directed Supramolecular Interactions. Inorganic Chemistry, 2016, 55, 7219-7228.	1.9	41
75	Macrocyclic Transformations from Norrole to Isonorrole and an Nâ€Confused Corrole with a Fused Hexacyclic Ring System Triggered by a Pyrrole Substituent. Angewandte Chemie - International Edition, 2016, 55, 3063-3067.	7.2	40
76	Selective Gas Uptake and Rotational Dynamics in a (3,24)-Connected Metalâ€“Organic Framework Material. Journal of the American Chemical Society, 2021, 143, 3348-3358.	6.6	39
77	A Multicenter Metalâ€“Organic Framework for Quantitative Detection of Multicomponent Organic Mixtures. CCS Chemistry, 2022, 4, 3238-3245.	4.6	39
78	Exceptional Packing Density of Ammonia in a Dual-Functionalized Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 6586-6592.	6.6	37
79	Direct Propylene Epoxidation with Molecular Oxygen over Cobalt-Containing Zeolites. Journal of the American Chemical Society, 2022, 144, 4260-4268.	6.6	37
80	Four Isomorphous Phosphates AM₃P₄O₁₄ (A = Sr, Ba; M = Co, Mn) with Antiferromagneticâ^'Antiferromagneticâ^'Ferromagnetic Trimerized Chains, Showing 1/3 Quantum Magnetization Plateaus Only in the Manganese(II) System. Inorganic Chemistry, 2008, 47, 2562-2568.	1.9	36
81	New synchrotron powder diffraction facility for long-duration experiments. Journal of Applied Crystallography, 2017, 50, 172-183.	1.9	35
82	Construction of C-C bonds via photoreductive coupling of ketones and aldehydes in the metal-organic-framework MFM-300(Cr). Nature Communications, 2021, 12, 3583.	5.8	35
83	Synthesis and structure of a 1,6-hexyldiamine heptaborate, [H3N(CH2)6NH3][B7O10(OH)3]. Journal of Solid State Chemistry, 2007, 180, 2225-2232.	1.4	33
84	Optimal Binding of Acetylene to a Nitro-Decorated Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 16006-16009.	6.6	31
85	Observation of binding of carbon dioxide to nitro-decorated metalâ€“organic frameworks. Chemical Science, 2020, 11, 5339-5346.	3.7	28
86	Syntheses, Structures, and Gas Adsorption Properties of Two Novel Cadmiumâ€“Sodium Organic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. Crystal Growth and Design, 2011, 11, 3529-3535.	1.4	27
87	Comparison of two multifunctional catalysts [M/Nb₂O₅ (M = Pd, Pt)] for one-pot hydrodeoxygenation of lignin. Catalysis Science and Technology, 2018, 8, 6129-6136.	2.1	26
88	Highly Efficient Proton Conduction in the Metalâ€“Organic Framework Material MFM-300(Cr)Â·SO₄(H₃O)₂. Journal of the American Chemical Society, 2022, 144, 11969-11974.	6.6	26
89	Guest-Controlled Incommensurate Modulation in a Meta-Rigid Metalâ€“Organic Framework Material. Journal of the American Chemical Society, 2020, 142, 19189-19197.	6.6	24
90	Direct Observation of Ammonia Storage in UiO-66 Incorporating Cu(II) Binding Sites. Journal of the American Chemical Society, 2022, 144, 8624-8632.	6.6	24

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91	High Volumetric Hydrogen Adsorption in a Porous Anthracene-Decorated Metalâ€“Organic Framework. Inorganic Chemistry, 2018, 57, 12050-12055.	1.9	23
92	Control of zeolite microenvironment for propene synthesis from methanol. Nature Communications, 2021, 12, 822.	5.8	23
93	New Series of Indium Formates:â€‰ Hydrothermal Synthesis, Structure and Coordination Modes. Inorganic Chemistry, 2007, 46, 8403-8409.	1.9	22
94	Na3[Ti2P2O10F]:Â A New Oxyfluorinated Titanium Phosphate with an Ionic Conductive Property. Chemistry of Materials, 2007, 19, 942-947.	3.2	22
95	MH2P2O7(M = Co, Ni):Â Metamagnetic Interaction between the Zigzag Octahedral Chains. Inorganic Chemistry, 2007, 46, 2342-2344.	1.9	22
96	Oxyfluorotitanophosphate Cluster [Ti10P4O16F44]16â^': Synthesis and Characterization of K16[Ti10P4O16F44]. Inorganic Chemistry, 2008, 47, 1414-1416.	1.9	22
97	Direct observation of supramolecular binding of light hydrocarbons in vanadium(<scp>iii</scp>) and (<scp>iv</scp>) metalâ€“organic framework materials. Chemical Science, 2018, 9, 3401-3408.	3.7	22
98	Hierarchical ZSM-5 catalyst synthesized by a Triton X-100 assisted hydrothermal method. Chinese Journal of Catalysis, 2014, 35, 1892-1899.	6.9	20
99	Rational syntheses of helical Ï€-conjugated oligopyrrins with a bipyrrole linkage: geometry control of bis-copper(<scp>ii</scp>) coordination. Chemical Communications, 2016, 52, 5148-5151.	2.2	20
100	Two Open-Framework Germanates with Nickel Complexes Incorporated into the Framework. Inorganic Chemistry, 2011, 50, 9921-9923.	1.9	19
101	Long-Term Stability of MFM-300(Al) toward Toxic Air Pollutants. ACS Applied Materials & Interfaces, 2020, 12, 42949-42954.	4.0	19
102	Tripyrrin-armed isosmaragdyrins: synthesis, heterodinuclear coordination, and protonation-triggered helical inversion. Chemical Science, 2020, 11, 2790-2795.	3.7	19
103	Syntheses, Structures, and Structural Transformations of Mixed Na(I) and Zn(II) Metalâ€“Organic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. Crystal Growth and Design, 2011, 11, 2243-2249.	1.4	18
104	Binding CO₂ by a Cr₈ Metallacrown. Angewandte Chemie - International Edition, 2017, 56, 5527-5530.	7.2	18
105	Discovery of Complex Metal Oxide Materials by Rapid Phase Identification and Structure Determination. Journal of the American Chemical Society, 2019, 141, 4990-4996.	6.6	17
106	Binding and separation of CO₂, SO₂ and C₂H₂ in homo- and hetero-metallic metalâ€“organic framework materials. Journal of Materials Chemistry A, 2021, 9, 7190-7197.	5.2	17
107	Efficient Separation of Acetylene and Carbon Dioxide in a Decorated Zeolite. Angewandte Chemie, 2021, 133, 6600-6606.	1.6	17
108	Regulating Extraâ€Framework Cations in Faujasite Zeolites for Capture of Trace Carbon Dioxide. Chemistry - A European Journal, 2022, 28, .	1.7	17

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109	Porous Metalâ€“Organic Polyhedra: Morphology, Porosity, and Guest Binding. Inorganic Chemistry, 2020, 59, 15646-15658.	1.9	16
110	Stepwise observation and quantification and mixed matrix membrane separation of CO₂ within a hydroxy-decorated porous host. Chemical Science, 2017, 8, 3239-3248.	3.7	15
111	The Impact of Structural Defects on Iodine Adsorption in UiO-66. Chemistry, 2021, 3, 525-531.	0.9	15
112	The Origin of Catalytic Benzylic Câˆ’H Oxidation over a Redoxâ€Active Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2021, 60, 15243-15247.	7.2	15
113	An open-framework three-dimensional indium oxalate: [In(OH)(C2O4)(H2O)]3Â·H2O. Journal of Solid State Chemistry, 2005, 178, 3703-3707.	1.4	14
114	Ammonia Storage by Reversible Hostâ€“Guest Site Exchange in a Robust Metalâ€“Organic Framework. Angewandte Chemie, 2018, 130, 14994-14997.	1.6	14
115	Enhanced proton conductivity in a flexible metalâ€“organic framework promoted by single-crystal-to-single-crystal transformation. Chemical Communications, 2021, 57, 65-68.	2.2	14
116	Tetra- and Octapyrroles Synthesized from Confusion and Fusion Approaches. Organic Letters, 2016, 18, 5046-5049.	2.4	13
117	Syntheses and Structural Characterization of a Series of One-Dimensional Fluorotitanophosphates (NH4)xK4â€‰-â€‰x[Ti2PO4F9] (x = 0, 0.70, 1.00, 1.25). Inorganic Chemistry, 2007, 46, 11431-11436.	1.9	12
118	A {Ni₁₂}â€Wheelâ€Based Metalâ€“Organic Framework for Coordinative Binding of Sulphur Dioxide and Nitrogen Dioxide. Angewandte Chemie - International Edition, 2022, 61, e202115585.	7.2	12
119	Structural and Dynamic Analysis of Sulphur Dioxide Adsorption in a Series of Zirconiumâ€Based Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2022, 61, .	7.2	12
120	Purification of Propylene and Ethylene by a Robust Metalâ€“Organic Framework Mediated by Hostâ€“Guest Interactions. Angewandte Chemie, 2021, 133, 15669-15675.	1.6	11
121	Observation of oxygen evolution over a {Ni12}-cluster-based metal-organic framework. Science China Chemistry, 2022, 65, 1088-1093.	4.2	11
122	Direct Visualization of Supramolecular Binding and Separation of Light Hydrocarbons in MFM-300(In). Chemistry of Materials, 2022, 34, 5698-5705.	3.2	11
123	Inelastic neutron scattering study of binding of para-hydrogen in an ultra-microporous metalâ€“organic framework. Chemical Physics, 2014, 428, 111-116.	0.9	10
124	Structural and magnetic properties of tetragonal perovskite BaFe1âˆ’xBixO3âˆ’Î´. RSC Advances, 2015, 5, 12866-12871.	1.7	10
125	C2H4 and C2H6 adsorption-induced structural variation of pillared-layer CPL-2 MOF: A combined experimental and Monte Carlo simulation study. Chemical Engineering Science, 2020, 218, 115566.	1.9	10
126	Catalytic decomposition of NO2 over a copper-decorated metalâ€“organic framework by non-thermal plasma. Cell Reports Physical Science, 2021, 2, 100349.	2.8	10

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127	Synthesis, Structure, and Magnetic Properties of Hydroxo-Bridged Vanadium Oxalate V2O2(OH)2(C2O4)(H2O)2. European Journal of Inorganic Chemistry, 2006, 2006, 2850-2854.	1.0	9
128	Two isotypic diphosphates LiM2H3(P2O7)2 (M=Ni, Co) containing ferromagnetic zigzag MO6 chains. Journal of Solid State Chemistry, 2008, 181, 1347-1353.	1.4	9
129	Locating the binding domains in a highly selective mixed matrix membrane via synchrotron IR microspectroscopy. Chemical Communications, 2018, 54, 2866-2869.	2.2	9
130	Efficient Photocatalytic Reduction of CO ₂ Catalyzed by the Metalâ€“Organic Framework MFM-300(Ga). CCS Chemistry, 2022, 4, 2560-2569.	4.6	9
131	Borates as a new direction in the design of oxide ion conductors. Science China Materials, 2022, 65, 2737-2745.	3.5	8
132	Synthesis and Characterization of a Fluorotitanophosphate (NH₄)_{0.16}K_{1.84}[Ti₂F₂(PO₄)₂]<sub>(PO₃< with a Unique Lamella Framework. Inorganic Chemistry, 2009, 48, 5449-5453.	4.9	6
133	SU-75: a disordered Ge10 germanate with pcu topology. Dalton Transactions, 2012, 41, 12358.	1.6	6
134	Multiferroicity Broken by Commensurate Magnetic Ordering in Terbium Orthomanganite. ChemPhysChem, 2016, 17, 1098-1103.	1.0	6
135	Ultra-thin g-C₃N₄/MFM-300(Fe) heterojunctions for photocatalytic aerobic oxidation of benzylic carbon centers. Materials Advances, 2021, 2, 5144-5149.	2.6	6
136	High capacity ammonia adsorption in a robust metalâ€“organic framework mediated by reversible hostâ€“guest interactions. Chemical Communications, 2022, 58, 5753-5756.	2.2	6
137	Macrocyclic Transformations from Norrole to Isonorrole and an Nâ€Confused Corrole with a Fused Hexacyclic Ring System Triggered by a Pyrrole Substituent. Angewandte Chemie, 2016, 128, 3115-3119.	1.6	5
138	Cascade adsorptive separation of light hydrocarbons by commercial zeolites. Journal of Energy Chemistry, 2022, 72, 299-305.	7.1	5
139	Binding CO₂ by a Cr₈ Metallacrown. Angewandte Chemie, 2017, 129, 5619-5622.	1.6	4
140	Analysis by synchrotron X-ray scattering of the kinetics of formation of an Fe-based metal-organic framework with high CO2 adsorption. APL Materials, 2019, 7, 111104.	2.2	4
141	Investigations of Hydrocarbon Species on Solid Catalysts by Inelastic Neutron Scattering. Topics in Catalysis, 2021, 64, 593-602.	1.3	3
142	Structural aspects of metal-organic framework-based energy materials research at Diamond. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20130149.	1.6	2
143	New double formates Na3M(HCOO)6 (M=Ga, In) with diamond-like metal framework: Synthesis, structure and coordination modes. Journal of Molecular Structure, 2009, 937, 39-43.	1.8	1
144	Tracking charge in metal organic frameworks promises to improve fuel cell materials. Fuel Cells Bulletin, 2016, 2016, 12-13.	0.7	1

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145	PKU-2: An intrinsically microporous aluminoborate with the potential in selective gas separation of CO2/CH4 and C2H2/C2H4. Microporous and Mesoporous Materials, 2021, 312, 110782.	2.2	1
146	A {Ni₁₂}â€Wheelâ€Based Metalâ€“Organic Framework for Coordinative Binding of Sulphur Dioxide and Nitrogen Dioxide. Angewandte Chemie, 2022, 134, .	1.6	1
147	InnenrÃ¼cktitelbild: Ammonia Storage by Reversible Hostâ€“Guest Site Exchange in a Robust Metalâ€“Organic Framework (Angew. Chem. 45/2018). Angewandte Chemie, 2018, 130, 15163-15163.	1.6	0
148	The Origin of Catalytic Benzylic Câˆ’H Oxidation over a Redoxâ€Active Metalâ€“Organic Framework. Angewandte Chemie, 2021, 133, 15371-15375.	1.6	0
149	Simultaneous neutron powder diffraction and microwave characterisation at elevated temperatures. Physical Chemistry Chemical Physics, 2021, 23, 23602-23609.	1.3	0
150	Titelbild: A {Ni₁₂}â€Wheelâ€Based Metalâ€“Organic Framework for Coordinative Binding of Sulphur Dioxide and Nitrogen Dioxide (Angew. Chem. 6/2022). Angewandte Chemie, 2022, 134, .	1.6	0
151	Structural and dynamic analysis of adsorption of sulphur dioxide in a series of Zrâ€based metalâ€organic frameworks. Angewandte Chemie, 0, , .	1.6	0