

Sihai Yang

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138
papers

7,784
citations

45
h-index

86
g-index

164
ext. papers

9,502
ext. citations

11.6
avg, IF

5.89
L-index

#	Paper	IF	Citations
138	Selectivity and direct visualization of carbon dioxide and sulfur dioxide in a decorated porous host. <i>Nature Chemistry</i> , 2012 , 4, 887-94	17.6	396
137	Supramolecular binding and separation of hydrocarbons within a functionalized porous metal-organic framework. <i>Nature Chemistry</i> , 2014 , 7, 121-9	17.6	391
136	A partially interpenetrated metal-organic framework for selective hysteretic sorption of carbon dioxide. <i>Nature Materials</i> , 2012 , 11, 710-6	27	389
135	Cation-induced kinetic trapping and enhanced hydrogen adsorption in a modulated anionic metal-organic framework. <i>Nature Chemistry</i> , 2009 , 1, 487-93	17.6	361
134	Exceptionally high H ₂ storage by a metal-organic polyhedral framework. <i>Chemical Communications</i> , 2009 , 1025-7	5.8	289
133	Direct hydrodeoxygenation of raw woody biomass into liquid alkanes. <i>Nature Communications</i> , 2016 , 7, 11162	17.4	271
132	Metal-organic polyhedral frameworks: high h ₂ adsorption capacities and neutron powder diffraction studies. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4092-4	16.4	269
131	Studies on metal-organic frameworks of Cu(II) with isophthalate linkers for hydrogen storage. <i>Accounts of Chemical Research</i> , 2014 , 47, 296-307	24.3	239
130	Selective production of arenes via direct lignin upgrading over a niobium-based catalyst. <i>Nature Communications</i> , 2017 , 8, 16104	17.4	236
129	A robust binary supramolecular organic framework (SOF) with high CO ₂ adsorption and selectivity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12828-31	16.4	220
128	High capacity gas storage by a 4,8-connected metal-organic polyhedral framework. <i>Chemical Communications</i> , 2011 , 47, 4487-9	5.8	203
127	Structural and dynamic studies of substrate binding in porous metal-organic frameworks. <i>Chemical Society Reviews</i> , 2017 , 46, 239-274	58.5	166
126	Selective Adsorption of Sulfur Dioxide in a Robust Metal-Organic Framework Material. <i>Advanced Materials</i> , 2016 , 28, 8705-8711	24	161
125	Proton Conduction in a Phosphonate-Based Metal-Organic Framework Mediated by Intrinsic "Free Diffusion inside a Sphere". <i>Journal of the American Chemical Society</i> , 2016 , 138, 6352-5	16.4	156
124	Enhancement of H ₂ adsorption in Li ⁺ -exchanged co-ordination framework materials. <i>Chemical Communications</i> , 2008 , 6108-10	5.8	152
123	Unravelling exceptional acetylene and carbon dioxide adsorption within a tetra-amide functionalized metal-organic framework. <i>Nature Communications</i> , 2017 , 8, 14085	17.4	135
122	Confinement of Iodine Molecules into Triple-Helical Chains within Robust Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16289-16296	16.4	132

121	Highly porous and robust scandium-based metal-organic frameworks for hydrogen storage. <i>Chemical Communications</i> , 2011 , 47, 8304-6	5.8	130
120	A mesoporous metal-organic framework constructed from a nanosized C3-symmetric linker and [Cu ₂₄ (isophthalate) ₂₄] cuboctahedra. <i>Chemical Communications</i> , 2011 , 47, 9995-7	5.8	122
119	Synthesis of metal-organic frameworks by continuous flow. <i>Green Chemistry</i> , 2014 , 16, 3796-3802	10	115
118	Porous metal-organic frameworks as emerging sorbents for clean air. <i>Nature Reviews Chemistry</i> , 2019 , 3, 108-118	34.6	110
117	Reversible adsorption of nitrogen dioxide within a robust porous metal-organic framework. <i>Nature Materials</i> , 2018 , 17, 691-696	27	108
116	Enhancement of H ₂ adsorption in coordination framework materials by use of ligand curvature. <i>Chemistry - A European Journal</i> , 2009 , 15, 4829-35	4.8	106
115	Selective CO ₂ uptake and inverse CO ₂ /C ₂ H ₂ selectivity in a dynamic bifunctional metal-organic framework. <i>Chemical Science</i> , 2012 , 3, 2993	9.4	104
114	Irreversible network transformation in a dynamic porous host catalyzed by sulfur dioxide. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4954-7	16.4	103
113	Exceptional Adsorption and Binding of Sulfur Dioxide in a Robust Zirconium-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15564-15567	16.4	98
112	Reversible coordinative binding and separation of sulfur dioxide in a robust metal-organic framework with open copper sites. <i>Nature Materials</i> , 2019 , 18, 1358-1365	27	95
111	Breaking the Limit of Lignin Monomer Production via Cleavage of Interunit Carbon-Carbon Linkages. <i>CheM</i> , 2019 , 5, 1521-1536	16.2	84
110	Selective Hysteretic Sorption of Light Hydrocarbons in a Flexible Metal-Organic Framework Material. <i>Chemistry of Materials</i> , 2016 , 28, 2331-2340	9.6	84
109	Pore with gate: enhancement of the isosteric heat of adsorption of dihydrogen via postsynthetic cation exchange in metal-organic frameworks. <i>Inorganic Chemistry</i> , 2011 , 50, 9374-84	5.1	83
108	Cation-induced chirality in a bifunctional metal-organic framework for quantitative enantioselective recognition. <i>Nature Communications</i> , 2019 , 10, 5117	17.4	77
107	Control of zeolite pore interior for chemoselective alkyne/olefin separations. <i>Science</i> , 2020 , 368, 1002-1006	9.9	73
106	Structures and H ₂ adsorption properties of porous scandium metal-organic frameworks. <i>Chemistry - A European Journal</i> , 2010 , 16, 13671-9	4.8	71
105	Porous Metal-Organic Polyhedral Frameworks with Optimal Molecular Dynamics and Pore Geometry for Methane Storage. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13349-13360	16.4	69
104	Modulating supramolecular binding of carbon dioxide in a redox-active porous metal-organic framework. <i>Nature Communications</i> , 2017 , 8, 14212	17.4	64

103	Tailoring porosity and rotational dynamics in a series of octacarboxylate metal-organic frameworks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3056-3061	11.5	57
102	Supramolecular networks stabilise and functionalise black phosphorus. <i>Nature Communications</i> , 2017 , 8, 1385	17.4	57
101	Ammonia Storage by Reversible Host-Guest Site Exchange in a Robust Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14778-14781	16.4	55
100	A novel bismuth-based metal-organic framework for high volumetric methane and carbon dioxide adsorption. <i>Chemistry - A European Journal</i> , 2014 , 20, 8024-9	4.8	55
99	Capture of nitrogen dioxide and conversion to nitric acid in a porous metal-organic framework. <i>Nature Chemistry</i> , 2019 , 11, 1085-1090	17.6	55
98	Metal-organic frameworks in seconds via selective microwave heating. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7333-7338	13	53
97	Enhancement of CO ₂ Adsorption and Catalytic Properties by Fe-Doping of [Ga ₂ (OH) ₂ (L)] (H ₄ L = Biphenyl-3,3',5,5'-tetracarboxylic Acid), MFM-300(Ga ₂). <i>Inorganic Chemistry</i> , 2016 , 55, 1076-88	5.1	52
96	Observation of Binding and Rotation of Methane and Hydrogen within a Functional Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9119-27	16.4	48
95	Pore with gate: modulating hydrogen storage in metal-organic framework materials via cation exchange. <i>Faraday Discussions</i> , 2011 , 151, 19-36; discussion 95-115	3.6	46
94	Integration of mesopores and crystal defects in metal-organic frameworks via templated electrosynthesis. <i>Nature Communications</i> , 2019 , 10, 4466	17.4	45
93	Near-critical water, a cleaner solvent for the synthesis of a metal-organic framework. <i>Green Chemistry</i> , 2012 , 14, 117-122	10	43
92	Acid-Free Conversion of Cellulose to 5-(Hydroxymethyl)furfural Catalyzed by Hot Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3545-3553	3.9	42
91	Syntheses, structures and magnetic properties of Mn(II), Co(II) and Ni(II) metal-organic frameworks constructed from 1,3,5-benzenetricarboxylate and formate ligands. <i>Inorganica Chimica Acta</i> , 2010 , 363, 645-652	2.7	40
90	Iodine Adsorption in a Redox-Active Metal-Organic Framework: Electrical Conductivity Induced by Host-Guest Charge-Transfer. <i>Inorganic Chemistry</i> , 2019 , 58, 14145-14150	5.1	38
89	Modulating proton diffusion and conductivity in metal-organic frameworks by incorporation of accessible free carboxylic acid groups. <i>Chemical Science</i> , 2019 , 10, 1492-1499	9.4	38
88	Amides Do Not Always Work: Observation of Guest Binding in an Amide-Functionalized Porous Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14828-14831	16.4	38
87	Permanent porosity derived from the self-assembly of highly luminescent molecular zinc carbonate nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13414-8	16.4	37
86	Adsorption Properties of MFM-400 and MFM-401 with CO ₂ and Hydrocarbons: Selectivity Derived from Directed Supramolecular Interactions. <i>Inorganic Chemistry</i> , 2016 , 55, 7219-28	5.1	36

85	Enhancement of Proton Conductivity in Nonporous Metal-Organic Frameworks: The Role of Framework Proton Density and Humidity. <i>Chemistry of Materials</i> , 2018 , 30, 7593-7602	9.6	36
84	Post-synthetic modulation of the charge distribution in a metal-organic framework for optimal binding of carbon dioxide and sulfur dioxide. <i>Chemical Science</i> , 2019 , 10, 1472-1482	9.4	35
83	Quantitative production of butenes from biomass-derived γ -valerolactone catalysed by hetero-atomic MFI zeolite. <i>Nature Materials</i> , 2020 , 19, 86-93	27	33
82	Macrocyclic Transformations from Norrole to Isonorrole and an N-Confused Corrole with a Fused Hexacyclic Ring System Triggered by a Pyrrole Substituent. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3063-7	16.4	33
81	Four isomorphous phosphates AM ₃ P ₄ O ₁₄ (A = Sr, Ba; M = Co, Mn) with antiferromagnetic-antiferromagnetic-ferromagnetic trimerized chains, showing 1/3 quantum magnetization plateaus only in the manganese(II) system. <i>Inorganic Chemistry</i> , 2008 , 47, 2562-8	5.1	32
80	Synthesis and structure of a 1,6-hexyldiamine heptaborate, [H ₃ N(CH ₂) ₆ NH ₃][B ₇ O ₁₀ (OH) ₃]. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2225-2232	3.3	31
79	Host-guest selectivity in a series of isorecticular metal-organic frameworks: observation of acetylene-to-alkyne and carbon dioxide-to-amide interactions. <i>Chemical Science</i> , 2019 , 10, 1098-1106	9.4	30
78	Reversible MOF-Based Sensors for the Electrical Detection of Iodine Gas. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27982-27988	9.5	29
77	New synchrotron powder diffraction facility for long-duration experiments. <i>Journal of Applied Crystallography</i> , 2017 , 50, 172-183	3.8	28
76	Enhancement of CO Uptake and Selectivity in a Metal-Organic Framework by the Incorporation of Thiophene Functionality. <i>Inorganic Chemistry</i> , 2018 , 57, 5074-5082	5.1	26
75	Quantitative Electro-Reduction of CO to Liquid Fuel over Electro-Synthesized Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17384-17392	16.4	26
74	High Ammonia Adsorption in MFM-300 Materials: Dynamics and Charge Transfer in Host-Guest Binding. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3153-3161	16.4	24
73	Syntheses, Structures, and Gas Adsorption Properties of Two Novel Cadmium-Sodium Organic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. <i>Crystal Growth and Design</i> , 2011 , 11, 3529-3535	3.5	22
72	New series of indium formates: hydrothermal synthesis, structure and coordination modes. <i>Inorganic Chemistry</i> , 2007 , 46, 8403-9	5.1	22
71	Refinement of pore size at sub-angstrom precision in robust metal-organic frameworks for separation of xylenes. <i>Nature Communications</i> , 2020 , 11, 4280	17.4	22
70	Electro-reduction of carbon dioxide at low over-potential at a metal-organic framework decorated cathode. <i>Nature Communications</i> , 2020 , 11, 5464	17.4	21
69	Adsorption of Nitrogen Dioxide in a Redox-Active Vanadium Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15235-15239	16.4	20
68	Direct observation of supramolecular binding of light hydrocarbons in vanadium(III) and (IV) metal-organic framework materials. <i>Chemical Science</i> , 2018 , 9, 3401-3408	9.4	19

67	Na ₃ [Ti ₂ P ₂ O ₁₀ F]: A New Oxyfluorinated Titanium Phosphate with an Ionic Conductive Property. <i>Chemistry of Materials</i> , 2007 , 19, 942-947	9.6	19
66	MH ₂ P ₂ O ₇ (M = Co, Ni): metamagnetic interaction between the zigzag octahedral chains. <i>Inorganic Chemistry</i> , 2007 , 46, 2342-4	5.1	19
65	Efficient Separation of Acetylene and Carbon Dioxide in a Decorated Zeolite. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6526-6532	16.4	19
64	Selective Gas Uptake and Rotational Dynamics in a (3,24)-Connected Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3348-3358	16.4	19
63	Syntheses, Structures, and Structural Transformations of Mixed Na(I) and Zn(II) Metal-Organic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. <i>Crystal Growth and Design</i> , 2011 , 11, 2243-2249	3.5	18
62	Optimal Binding of Acetylene to a Nitro-Decorated Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16006-16009	16.4	18
61	Hierarchical ZSM-5 catalyst synthesized by a Triton X-100 assisted hydrothermal method. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 1892-1899	11.3	17
60	Purification of Propylene and Ethylene by a Robust Metal-Organic Framework Mediated by Host-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15541-15547	16.4	17
59	Two open-framework germanates with nickel complexes incorporated into the framework. <i>Inorganic Chemistry</i> , 2011 , 50, 9921-3	5.1	16
58	High Volumetric Hydrogen Adsorption in a Porous Anthracene-Decorated Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2018 , 57, 12050-12055	5.1	16
57	CO Poisoning of Ru Catalysts in CO ₂ Hydrogenation under Thermal and Plasma Conditions: A Combined Kinetic and Diffuse Reflectance Infrared Fourier Transform Spectroscopy/Mass Spectrometry Study. <i>ACS Catalysis</i> , 2020 , 10, 12828-12840	13.1	15
56	Emerging heterogeneous catalysts for biomass conversion: studies of the reaction mechanism. <i>Chemical Society Reviews</i> , 2021 , 50, 11270-11292	58.5	15
55	Comparison of two multifunctional catalysts [M/Nb ₂ O ₅ (M = Pd, Pt)] for one-pot hydrodeoxygenation of lignin. <i>Catalysis Science and Technology</i> , 2018 , 8, 6129-6136	5.5	15
54	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10977-10985	16.4	15
53	Binding CO by a Cr Metallocrown. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5527-5530	16.4	14
52	Rational syntheses of helical π -conjugated oligopyrrolins with a bipyrrrole linkage: geometry control of bis-copper(II) coordination. <i>Chemical Communications</i> , 2016 , 52, 5148-51	5.8	14
51	An open-framework three-dimensional indium oxalate: [In(OH)(C ₂ O ₄)(H ₂ O)] ₃ ·3H ₂ O. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 3703-3707	3.3	14
50	Stepwise observation and quantification and mixed matrix membrane separation of CO within a hydroxy-decorated porous host. <i>Chemical Science</i> , 2017 , 8, 3239-3248	9.4	13

49	Oxyfluorotitanophosphate cluster [Ti ₁₀ P ₄ O ₁₆ F ₄₄] ₁₆ -: synthesis and characterization of K ₁₆ [Ti ₁₀ P ₄ O ₁₆ F ₄₄]. <i>Inorganic Chemistry</i> , 2008 , 47, 1414-6	5.1	12
48	Long-Term Stability of MFM-300(Al) toward Toxic Air Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42949-42954	9.5	12
47	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2201502	24	12
46	Discovery of Complex Metal Oxide Materials by Rapid Phase Identification and Structure Determination. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4990-4996	16.4	11
45	Observation of binding of carbon dioxide to nitro-decorated metal-organic frameworks. <i>Chemical Science</i> , 2020 , 11, 5339-5346	9.4	11
44	Syntheses and structural characterization of a series of one-dimensional fluorotitanophosphates (NH ₄) _x K _(4-x) [Ti ₍₂₎ PO ₍₄₎ F ₍₉₎] (x = 0, 0.70, 1.00, 1.25). <i>Inorganic Chemistry</i> , 2007 , 46, 11431-6	5.1	10
43	Exceptional Packing Density of Ammonia in a Dual-Functionalized Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6586-6592	16.4	10
42	Tetra- and Octapyrroles Synthesized from Confusion and Fusion Approaches. <i>Organic Letters</i> , 2016 , 18, 5046-5049	6.2	10
41	Efficient Separation of Acetylene and Carbon Dioxide in a Decorated Zeolite. <i>Angewandte Chemie</i> , 2021 , 133, 6600-6606	3.6	10
40	Synthesis, Structure, and Magnetic Properties of Hydroxo-Bridged Vanadium Oxalate V ₂ O ₂ (OH) ₂ (C ₂ O ₄)(H ₂ O) ₂ . <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 2850-2854	2.3	9
39	Guest-Controlled Incommensurate Modulation in a Meta-Rigid Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19189-19197	16.4	9
38	Ammonia Storage by Reversible Host-Guest Site Exchange in a Robust Metal-Organic Framework. <i>Angewandte Chemie</i> , 2018 , 130, 14994-14997	3.6	9
37	Structural and magnetic properties of tetragonal perovskite BaFe _{1-x} BixO ₃ . <i>RSC Advances</i> , 2015 , 5, 12866-12871	3.7	8
36	Locating the binding domains in a highly selective mixed matrix membrane via synchrotron IR microspectroscopy. <i>Chemical Communications</i> , 2018 , 54, 2866-2869	5.8	8
35	Permanent Porosity Derived From the Self-Assembly of Highly Luminescent Molecular Zinc Carbonate Nanoclusters. <i>Angewandte Chemie</i> , 2013 , 125, 13656-13660	3.6	8
34	Two isotopic diphosphates Li ₂ M ₂ H ₃ (P ₂ O ₇) ₂ (M=Ni, Co) containing ferromagnetic zigzag MO ₆ chains. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1347-1353	3.3	8
33	Construction of C-C bonds via photoreductive coupling of ketones and aldehydes in the metal-organic-framework MFM-300(Cr). <i>Nature Communications</i> , 2021 , 12, 3583	17.4	8
32	C ₂ H ₄ and C ₂ H ₆ adsorption-induced structural variation of pillared-layer CPL-2 MOF: A combined experimental and Monte Carlo simulation study. <i>Chemical Engineering Science</i> , 2020 , 218, 115566	4.4	7

31	Inelastic neutron scattering study of binding of para-hydrogen in an ultra-microporous metal-organic framework. <i>Chemical Physics</i> , 2014 , 428, 111-116	2.3	7
30	Pore Distortion in a Metal-Organic Framework for Regulated Separation of Propane and Propylene. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19300-19305	16.4	7
29	Porous Metal-Organic Polyhedra: Morphology, Porosity, and Guest Binding. <i>Inorganic Chemistry</i> , 2020 , 59, 15646-15658	5.1	6
28	Purification of Propylene and Ethylene by a Robust Metal-Organic Framework Mediated by Host-Guest Interactions. <i>Angewandte Chemie</i> , 2021 , 133, 15669-15675	3.6	6
27	Multiferroicity Broken by Commensurate Magnetic Ordering in Terbium Orthomanganite. <i>ChemPhysChem</i> , 2016 , 17, 1098-103	3.2	6
26	Tripyrrin-armed isosmaragdyrins: synthesis, heterodinuclear coordination, and protonation-triggered helical inversion. <i>Chemical Science</i> , 2020 , 11, 2790-2795	9.4	5
25	SU-75: a disordered Ge ₁₀ germanate with pcu topology. <i>Dalton Transactions</i> , 2012 , 41, 12358-64	4.3	5
24	Macrocyclic Transformations from Norrole to Isonorrole and an N-Confused Corrole with a Fused Hexacyclic Ring System Triggered by a Pyrrole Substituent. <i>Angewandte Chemie</i> , 2016 , 128, 3115-3119	3.6	5
23	Control of zeolite microenvironment for propene synthesis from methanol. <i>Nature Communications</i> , 2021 , 12, 822	17.4	5
22	Binding CO ₂ by a Cr ₈ Metallocrown. <i>Angewandte Chemie</i> , 2017 , 129, 5619-5622	3.6	4
21	Synthesis and characterization of a fluorotitanophosphate (NH ₄) _{0.16} K _{1.84} [Ti ₂ F ₂ (PO ₄) ₂ (PO ₃ OH)] with a unique lamella framework. <i>Inorganic Chemistry</i> , 2009 , 48, 5449-53	5.1	4
20	The Origin of Catalytic Benzylic C-H Oxidation over a Redox-Active Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15243-15247	16.4	4
19	Binding and separation of CO ₂ , SO ₂ and C ₂ H ₂ in homo- and hetero-metallic metal-organic framework materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7190-7197	13	4
18	Analysis by synchrotron X-ray scattering of the kinetics of formation of an Fe-based metal-organic framework with high CO ₂ adsorption. <i>APL Materials</i> , 2019 , 7, 111104	5.7	3
17	The Impact of Structural Defects on Iodine Adsorption in UiO-66. <i>Chemistry</i> , 2021 , 3, 525-531	2.1	3
16	Enhanced proton conductivity in a flexible metal-organic framework promoted by single-crystal-to-single-crystal transformation. <i>Chemical Communications</i> , 2021 , 57, 65-68	5.8	3
15	Ultra-thin g-CN/MFM-300(Fe) heterojunctions for photocatalytic aerobic oxidation of benzylic carbon centers. <i>Materials Advances</i> , 2021 , 2, 5144-5149	3.3	3
14	Catalytic decomposition of NO ₂ over a copper-decorated metal-organic framework by non-thermal plasma. <i>Cell Reports Physical Science</i> , 2021 , 2, 100349	6.1	3

13	Structural aspects of metal-organic framework-based energy materials research at Diamond. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	2
12	Investigations of Hydrocarbon Species on Solid Catalysts by Inelastic Neutron Scattering. <i>Topics in Catalysis</i> , 2021 , 64, 593-602	2.3	2
11	New double formates Na ₃ M(HCOO) ₆ (M = Ga, In) with diamond-like metal framework: Synthesis, structure and coordination modes. <i>Journal of Molecular Structure</i> , 2009 , 937, 39-43	3.4	1
10	A Multicenter Metal-Organic Framework for Quantitative Detection of Multi-Component Organic Mixtures. <i>CCS Chemistry</i> , 1-19	7.2	1
9	A {Ni ₁₂ }-Wheel-Based Metal-Organic Framework for Coordinative Binding of Sulphur Dioxide and Nitrogen Dioxide. <i>Angewandte Chemie - International Edition</i> , 2021 , e202115585	16.4	1
8	High capacity ammonia adsorption in a robust metal-organic framework mediated by reversible host-guest interactions.. <i>Chemical Communications</i> , 2022 ,	5.8	1
7	Observation of oxygen evolution over a {Ni ₁₂ }-cluster-based metal-organic framework. <i>Science China Chemistry</i> ,	7.9	1
6	PKU-2: An intrinsically microporous aluminoborate with the potential in selective gas separation of CO ₂ /CH ₄ and C ₂ H ₂ /C ₂ H ₄ . <i>Microporous and Mesoporous Materials</i> , 2021 , 312, 110782	5.3	0
5	Efficient Photocatalytic Reduction of CO ₂ Catalyzed by the Metal-Organic Framework MFM-300(Ga). <i>CCS Chemistry</i> , 1-10	7.2	0
4	Simultaneous neutron powder diffraction and microwave characterisation at elevated temperatures. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23602-23609	3.6	
3	The Origin of Catalytic Benzylic C-H Oxidation over a Redox-Active Metal-Organic Framework. <i>Angewandte Chemie</i> , 2021 , 133, 15371-15375	3.6	
2	Tracking charge in metal organic frameworks promises to improve fuel cell materials. <i>Fuel Cells Bulletin</i> , 2016 , 2016, 12-13	1.6	
1	Innenstruktur: Ammonia Storage by Reversible Host-Guest Site Exchange in a Robust Metal-Organic Framework (Angew. Chem. 45/2018). <i>Angewandte Chemie</i> , 2018 , 130, 15163-15163	3.6	