

Xue Han

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,659
citations

257101

24
h-index

253896

43
g-index

46
all docs

46
docs citations

46
times ranked

2412
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective production of arenes via direct lignin upgrading over a niobium-based catalyst. <i>Nature Communications</i> , 2017, 8, 16104.	5.8	346
2	Porous metal-organic frameworks as emerging sorbents for clean air. <i>Nature Reviews Chemistry</i> , 2019, 3, 108-118.	13.8	202
3	Control of zeolite pore interior for chemoselective alkyne/olefin separations. <i>Science</i> , 2020, 368, 1002-1006.	6.0	179
4	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.	13.3	171
5	Reversible adsorption of nitrogen dioxide within a robust porous metal-organic framework. <i>Nature Materials</i> , 2018, 17, 691-696.	13.3	162
6	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.	6.6	149
7	Capture of nitrogen dioxide and conversion to nitric acid in a porous metal-organic framework. <i>Nature Chemistry</i> , 2019, 11, 1085-1090.	6.6	116
8	Emerging heterogeneous catalysts for biomass conversion: studies of the reaction mechanism. <i>Chemical Society Reviews</i> , 2021, 50, 11270-11292.	18.7	102
9	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2022, 34, .	11.1	82
10	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.	1.9	74
11	Quantitative production of butenes from biomass-derived γ -valerolactone catalysed by hetero-atomic MFI zeolite. <i>Nature Materials</i> , 2020, 19, 86-93.	13.3	74
12	Quantitative Electro-Reduction of CO ₂ to Liquid Fuel over Electro-Synthesized Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 17384-17392.	6.6	73
13	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.	6.6	72
14	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.	6.6	67
15	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.	6.6	66
16	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.	3.7	62
17	Electro-reduction of carbon dioxide at low over-potential at a metal-organic framework decorated cathode. <i>Nature Communications</i> , 2020, 11, 5464.	5.8	62
18	Efficient Separation of Acetylene and Carbon Dioxide in a Decorated Zeolite. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6526-6532.	7.2	62

#	ARTICLE	IF	CITATIONS
19	Refinement of pore size at sub-angstrom precision in robust metal-organic frameworks for separation of xylenes. <i>Nature Communications</i> , 2020, 11, 4280.	5.8	61
20	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.	7.2	51
21	Enhancement of CO ₂ Uptake and Selectivity in a Metal-Organic Framework by the Incorporation of Thiophene Functionality. <i>Inorganic Chemistry</i> , 2018, 57, 5074-5082.	1.9	50
22	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.	6.6	50
23	Exceptional Packing Density of Ammonia in a Dual-Functionalized Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 6586-6592.	6.6	37
24	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.	5.8	35
25	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.	2.1	26
26	Highly Efficient Proton Conduction in the Metal-Organic Framework Material MFM-300(Cr)-SO ₄ (H ₃ O) ₂ . <i>Journal of the American Chemical Society</i> , 2022, 144, 11969-11974.	6.6	26
27	Guest-Controlled Incommensurate Modulation in a Meta-Rigid Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2020, 142, 19189-19197.	6.6	24
28	Direct Observation of Ammonia Storage in UiO-66 Incorporating Cu(II) Binding Sites. <i>Journal of the American Chemical Society</i> , 2022, 144, 8624-8632.	6.6	24
29	Control of zeolite microenvironment for propene synthesis from methanol. <i>Nature Communications</i> , 2021, 12, 822.	5.8	23
30	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.	5.2	17
31	Efficient Separation of Acetylene and Carbon Dioxide in a Decorated Zeolite. <i>Angewandte Chemie</i> , 2021, 133, 6600-6606.	1.6	17
32	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.	7.2	15
33	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.	2.2	14
34	A {Ni ₁₂ } Wheel-Based Metal-Organic Framework for Coordinative Binding of Sulphur Dioxide and Nitrogen Dioxide. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202115585.	7.2	12
35	Purification of Propylene and Ethylene by a Robust Metal-Organic Framework Mediated by Host-Guest Interactions. <i>Angewandte Chemie</i> , 2021, 133, 15669-15675.	1.6	11
36	Direct Visualization of Supramolecular Binding and Separation of Light Hydrocarbons in MFM-300(In). <i>Chemistry of Materials</i> , 2022, 34, 5698-5705.	3.2	11

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37	Efficient Photocatalytic Reduction of CO ₂ Catalyzed by the Metal-Organic Framework MFM-300(Ga). <i>CCS Chemistry</i> , 2022, 4, 2560-2569.	4.6	9
38	Ultra-thin g-C ₃ N ₄ /MFM-300(Fe) heterojunctions for photocatalytic aerobic oxidation of benzylic carbon centers. <i>Materials Advances</i> , 2021, 2, 5144-5149.	2.6	6
39	High capacity ammonia adsorption in a robust metal-organic framework mediated by reversible host-guest interactions. <i>Chemical Communications</i> , 2022, 58, 5753-5756.	2.2	6
40	Cascade adsorptive separation of light hydrocarbons by commercial zeolites. <i>Journal of Energy Chemistry</i> , 2022, 72, 299-305.	7.1	5
41	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.	2.2	4
42	Investigations of Hydrocarbon Species on Solid Catalysts by Inelastic Neutron Scattering. <i>Topics in Catalysis</i> , 2021, 64, 593-602.	1.3	3
43	A {Ni ₁₂ } ¹² -Wheel-Based Metal-Organic Framework for Coordinative Binding of Sulphur Dioxide and Nitrogen Dioxide. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
44	The Origin of Catalytic Benzylic C-H Oxidation over a Redox-Active Metal-Organic Framework. <i>Angewandte Chemie</i> , 2021, 133, 15371-15375.	1.6	0
45	Titelbild: A {Ni ₁₂ } ¹² -Wheel-Based Metal-Organic Framework for Coordinative Binding of Sulphur Dioxide and Nitrogen Dioxide (<i>Angew. Chem.</i> 6/2022). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0