## Kui Tan

## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Stability and Hydrolyzation of Metal Organic Frameworks with Paddle-Wheel SBUs upon Hydration. Chemistry of Materials, 2012, 24, 3153-3167.	6.7	368
2	Creating Hierarchical Pores by Controlled Linker Thermolysis in Multivariate Metal–Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 2363-2372.	13.7	310
3	Synthesis, Characterization, and Photocatalytic Activity of Y-Doped CeO <sub>2</sub> Nanorods. ACS Catalysis, 2014, 4, 577-584.	11.2	301
4	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C6 alkane isomers. Nature Communications, 2018, 9, 1745.	12.8	251
5	Simultaneous Trapping of C <sub>2</sub> H <sub>2</sub> and C <sub>2</sub> H <sub>6</sub> from a Ternary Mixture of C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> /C <sub>2</sub> /C <sub>2</sub> H <sub>6</sub> in a Robust Metal†Organic Framework for the Purification of C <sub>2</sub> H <sub>4</sub> . Angewandte Chemie	13.8	223
6	-International Edition, 2018, 57, 16067-16071. Metal–Organic Framework Based Hydrogen-Bonding Nanotrap for Efficient Acetylene Storage and Separation. Journal of the American Chemical Society, 2022, 144, 1681-1689.	13.7	172
7	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. Nature Communications, 2017, 8, 485.	12.8	171
8	Competitive Coadsorption of CO <sub>2</sub> with H <sub>2</sub> O, NH <sub>3</sub> , SO <sub>2</sub> , NO, NO <sub>2</sub> , N <sub>2</sub> , O <sub>2</sub> , and CH <sub>4</sub> in M-MOF-74 (M = Mg, Co, Ni): The Role of Hydrogen Bonding. Chemistry of Materials, 2015, 27, 2203-2217.	6.7	158
9	Understanding and controlling water stability of MOF-74. Journal of Materials Chemistry A, 2016, 4, 5176-5183.	10.3	155
10	Water Reaction Mechanism in Metal Organic Frameworks with Coordinatively Unsaturated Metal Ions: MOF-74. Chemistry of Materials, 2014, 26, 6886-6895.	6.7	149
11	Water interactions in metal organic frameworks. CrystEngComm, 2015, 17, 247-260.	2.6	148
12	Mechanism of Preferential Adsorption of SO <sub>2</sub> into Two Microporous Paddle Wheel Frameworks M(bdc)(ted) <sub>0.5</sub> . Chemistry of Materials, 2013, 25, 4653-4662.	6.7	127
13	Water Cluster Confinement and Methane Adsorption in the Hydrophobic Cavities of a Fluorinated Metal–Organic Framework. Journal of the American Chemical Society, 2013, 135, 12615-12626.	13.7	114
14	Rational design of common transition metal-nitrogen-carbon catalysts for oxygen reduction reaction in fuel cells. Nano Energy, 2016, 30, 443-449.	16.0	114
15	Effective sensing of RDX via instant and selective detection of ketone vapors. Chemical Science, 2014, 5, 4873-4877.	7.4	112
16	Selective, Sensitive, and Reversible Detection of Vapor-Phase High Explosives via Two-Dimensional Mapping: A New Strategy for MOF-Based Sensors. Crystal Growth and Design, 2013, 13, 4204-4207.	3.0	107
17	Interaction of Acid Gases SO <sub>2</sub> and NO <sub>2</sub> with Coordinatively Unsaturated Metal Organic Frameworks: M-MOF-74 (M = Zn, Mg, Ni, Co). Chemistry of Materials, 2017, 29, 4227-4235.	6.7	99
18	Rapid desolvation-triggered domino lattice rearrangement in a metal–organic framework. Nature Chemistry, 2020, 12, 90-97.	13.6	93

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19	Defect Termination in the UiO-66 Family of Metal–Organic Frameworks: The Role of Water and Modulator. Journal of the American Chemical Society, 2021, 143, 6328-6332.	13.7	74
20	Blending Ionic and Coordinate Bonds in Hybrid Semiconductor Materials: A General Approach toward Robust and Solution-Processable Covalent/Coordinate Network Structures. Journal of the American Chemical Society, 2020, 142, 4242-4253.	13.7	72
21	Simultaneous Trapping of C <sub>2</sub> H <sub>2</sub> and C <sub>2</sub> H <sub>6</sub> from a Ternary Mixture of C <sub>2</sub> H <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> H <sub>6</sub> in a Robust Metalâ€"Organic Framework for the Purification of C <sub>2</sub> H <sub>4</sub> . Angewandte Chemie,	2.0	71
22	Selective Extraction of Thorium from Rare Earth Elements Using Wrinkled Mesoporous Carbon. Journal of the American Chemical Society, 2018, 140, 14735-14739.	13.7	70
23	Breaking the trade-off between selectivity and adsorption capacity for gas separation. CheM, 2021, 7, 3085-3098.	11.7	68
24	Stable and Active Oxidation Catalysis by Cooperative Lattice Oxygen Redox on SmMn <sub>2</sub> O <sub>5</sub> Mullite Surface. Journal of the American Chemical Society, 2019, 141, 10722-10728.	13.7	64
25	Crystallizing Atomic Xenon in a Flexible MOF to Probe and Understand Its Temperature-Dependent Breathing Behavior and Unusual Gas Adsorption Phenomenon. Journal of the American Chemical Society, 2020, 142, 20088-20097.	13.7	62
26	Trapping gases in metal-organic frameworks with a selective surface molecular barrier layer. Nature Communications, 2016, 7, 13871.	12.8	60
27	Aminoâ€Functionalised Hybrid Ultramicroporous Materials that Enable Singleâ€Step Ethylene Purification from a Ternary Mixture. Angewandte Chemie - International Edition, 2021, 60, 10902-10909.	13.8	56
28	Engineering Structural Dynamics of Zirconium Metal–Organic Frameworks Based on Natural C4 Linkers. Journal of the American Chemical Society, 2019, 141, 17207-17216.	13.7	54
29	Quenching of photoluminescence in a Zn-MOF sensor by nitroaromatic molecules. Journal of Materials Chemistry C, 2019, 7, 2625-2632.	5.5	54
30	2D-Covalent Organic Frameworks with Interlayer Hydrogen Bonding Oriented through Designed Nonplanarity. Journal of the American Chemical Society, 2020, 142, 12987-12994.	13.7	51
31	Structural, elastic, thermal, and electronic responses of small-molecule-loaded metal–organic framework materials. Journal of Materials Chemistry A, 2015, 3, 986-995.	10.3	42
32	Modulation of Water Vapor Sorption by a Fourth-Generation Metal–Organic Material with a Rigid Framework and Self-Switching Pores. Journal of the American Chemical Society, 2018, 140, 12545-12552.	13.7	42
33	High stability of ultra-small and isolated gold nanoparticles in metal–organic framework materials. Journal of Materials Chemistry A, 2019, 7, 17536-17546.	10.3	41
34	An Encapsulation-Rearrangement Strategy to Integrate Superhydrophobicity into Mesoporous Metal-Organic Frameworks. Matter, 2020, 2, 988-999.	10.0	39
35	Fluorescence Enhancement in the Solid State by Isolating Perylene Fluorophores in Metal–Organic Frameworks. ACS Applied Materials & Interfaces, 2020, 12, 26727-26732.	8.0	36
36	Study of van der Waals bonding and interactions in metal organic framework materials. Journal of Physics Condensed Matter, 2014, 26, 133002.	1.8	34

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37	Robust fluorescent calcium coordination polymers as Cu <sup>2+</sup> sensors with high sensitivity and fast response. Journal of Materials Chemistry C, 2020, 8, 6820-6825.	5.5	30
38	Porous Ti-MOF-74 Framework as a Strong-Binding Nitric Oxide Scavenger. Journal of the American Chemical Society, 2020, 142, 16562-16568.	13.7	27
39	Role of Hydrogen Bonding on Transport of Coadsorbed Gases in Metal–Organic Frameworks Materials. Journal of the American Chemical Society, 2018, 140, 856-859.	13.7	26
40	A switchable sensor and scavenger: detection and removal of fluorinated chemical species by a luminescent metal–organic framework. Chemical Science, 2021, 12, 14189-14197.	7.4	26
41	Ultrastable Zirconium-Based Cationic Metal–Organic Frameworks for Perrhenate Removal from Wastewater. Inorganic Chemistry, 2021, 60, 11730-11738.	4.0	22
42	Flexible Zn-MOF with Rare Underlying <i>scu</i> Topology for Effective Separation of C6 Alkane Isomers. ACS Applied Materials & Interfaces, 2021, 13, 51997-52005.	8.0	22
43	Structure-Driven Photoluminescence Enhancement in a Zn-Based Metal–Organic Framework. Chemistry of Materials, 2019, 31, 7933-7940.	6.7	21
44	Luminescent Metal–Organic Framework for Lithium Harvesting Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 6561-6568.	6.7	21
45	CO <sub>2</sub> Capture by Hybrid Ultramicroporous TIFSIXâ€3â€Ni under Humid Conditions Using Nonâ€Equilibrium Cycling. Angewandte Chemie - International Edition, 2022, 61, .	13.8	17
46	Reactivity of Atomic Layer Deposition Precursors with OH/H2O-Containing Metal Organic Framework Materials. Chemistry of Materials, 2019, 31, 2286-2295.	6.7	16
47	On the UV–Visible Light Synergetic Mechanisms in Au/TiO <sub>2</sub> Hybrid Model Nanostructures Achieving Photoreduction of Water. Journal of Physical Chemistry C, 2020, 124, 25421-25430.	3.1	16
48	Effect of metal/bulk-heterojunction interfacial properties on organic photovoltaic device performance. Journal of Materials Chemistry A, 2014, 2, 15288.	10.3	11
49	A Beehive Inspired Hydrogen Photocatalytic Device Integrating a Carboâ€Benzene Triptych Material for Efficient Solar Photoâ€Reduction of Seawater. Advanced Sustainable Systems, 2020, 4, 2000121.	5.3	11
50	Fluorescent Detection of Carbon Disulfide by a Highly Emissive and Robust Isoreticular Series of Zr-Based Luminescent Metal Organic Frameworks (LMOFs). Chemistry, 2021, 3, 327-337.	2.2	11
51	Cluster assisted water dissociation mechanism in MOF-74 and controlling it using helium. Journal of Materials Chemistry A, 2016, 4, 11524-11530.	10.3	10
52	Controlling Chemical Reactions in Confined Environments: Water Dissociation in MOF-74. Applied Sciences (Switzerland), 2018, 8, 270.	2.5	10
53	Aminoâ€Functionalised Hybrid Ultramicroporous Materials that Enable Single‣tep Ethylene Purification from a Ternary Mixture. Angewandte Chemie, 2021, 133, 10997-11004.	2.0	10
54	Identifying the Gate-Opening Mechanism in the Flexible Metal–Organic Framework UTSA-300. Inorganic Chemistry, 2022, 61, 5025-5032.	4.0	9

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55	Thermally Activated Adsorption in Metal–Organic Frameworks with a Temperatureâ€Tunable Diffusion Barrier Layer. Angewandte Chemie - International Edition, 2020, 59, 18468-18472.	13.8	8
56	Peroxide-Templated Assembly of a Trimetal Neodymium Complex Single-Molecule Magnet. Inorganic Chemistry, 2020, 59, 10379-10383.	4.0	8
57	Chemistry in confined spaces: reactivity of the Zn-MOF-74 channels. Journal of Materials Chemistry A, 2016, 4, 13176-13182.	10.3	7
58	Tuning the Adsorption Properties of Metal–Organic Frameworks through Coadsorbed Ammonia. ACS Applied Materials & Interfaces, 2021, 13, 43661-43667.	8.0	6
59	Improving Alkylamine Incorporation in Porous Polymer Networks through Dopant Incorporation. Advanced Sustainable Systems, 2019, 3, 1900051.	5.3	3
60	Decoding the Gate Opening Mechanism of the Flexible Framework RPM3–Zn upon Hydrocarbon Inclusion. Chemistry of Materials, 2022, 34, 3246-3252.	6.7	3
61	CO2 Capture by Hybrid Ultramicroporous TIFSIXâ€3â€Ni under Humid Conditions Using Nonâ€Equilibrium Cycling. Angewandte Chemie, 0, , .	2.0	3
62	Interaction of Small Molecules within Metal Organic Frameworks Studied by In Situ Vibrational Spectroscopy. , 0, , .		2
63	Thermally Activated Adsorption in Metal–Organic Frameworks with a Temperatureâ€Tunable Diffusion Barrier Layer. Angewandte Chemie, 2020, 132, 18626-18630.	2.0	О