Kui Tan

List of Publications by Year
in descending order

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Version: 2024-02-01

63	4,519	117625	123424
papers	citations	34 h-index	61 g-index

66	66	66	5830
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identifying the Gate-Opening Mechanism in the Flexible Metalâ€“Organic Framework UTSA-300. Inorganic Chemistry, 2022, 61, 5025-5032.	4.0	9
2	Decoding the Gate Opening Mechanism of the Flexible Framework RPM3â€“Zn upon Hydrocarbon Inclusion. Chemistry of Materials, 2022, 34, 3246-3252.	6.7	3
3	Metalâ€“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
4	CO₂ Capture by Hybrid Ultramicroporous TIFSIXâ€3â€Ni under Humid Conditions Using Nonâ€Equilibrium Cycling. Angewandte Chemie - International Edition, 2022, 61, .	13.8	17
5	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
6	Aminoâ€Functionalised Hybrid Ultramicroporous Materials that Enable Singleâ€Step Ethylene Purification from a Ternary Mixture. Angewandte Chemie, 2021, 133, 10997-11004.	2.0	10
7	Ultrastable Zirconium-Based Cationic Metalâ€“Organic Frameworks for Perrhenate Removal from Wastewater. Inorganic Chemistry, 2021, 60, 11730-11738.	4.0	22
8	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
9	Defect Termination in the UiO-66 Family of Metalâ€“Organic Frameworks: The Role of Water and Modulator. Journal of the American Chemical Society, 2021, 143, 6328-6332.	13.7	74
10	Flexible Zn-MOF with Rare Underlying scu Topology for Effective Separation of C6 Alkane Isomers. ACS Applied Materials & Interfaces, 2021, 13, 51997-52005.	8.0	22
11	Breaking the trade-off between selectivity and adsorption capacity for gas separation. CheM, 2021, 7, 3085-3098.	11.7	68
12	Tuning the Adsorption Properties of Metalâ€“Organic Frameworks through Coadsorbed Ammonia. ACS Applied Materials & Interfaces, 2021, 13, 43661-43667.	8.0	6
13	A switchable sensor and scavenger: detection and removal of fluorinated chemical species by a luminescent metalâ€“organic framework. Chemical Science, 2021, 12, 14189-14197.	7.4	26
14	Rapid desolvation-triggered domino lattice rearrangement in a metalâ€“organic framework. Nature Chemistry, 2020, 12, 90-97.	13.6	93
15	On the UVâ€“Visible Light Synergetic Mechanisms in Au/TiO₂ Hybrid Model Nanostructures Achieving Photoreduction of Water. Journal of Physical Chemistry C, 2020, 124, 25421-25430.	3.1	16
16	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
17	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
18	Fluorescence Enhancement in the Solid State by Isolating Perylene Fluorophores in Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2020, 12, 26727-26732.	8.0	36

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19	Thermally Activated Adsorption in Metalâ€“Organic Frameworks with a Temperatureâ€Tunable Diffusion Barrier Layer. Angewandte Chemie - International Edition, 2020, 59, 18468-18472.	13.8	8
20	Thermally Activated Adsorption in Metalâ€“Organic Frameworks with a Temperatureâ€Tunable Diffusion Barrier Layer. Angewandte Chemie, 2020, 132, 18626-18630.	2.0	0
21	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
22	Peroxide-Templated Assembly of a Trimetal Neodymium Complex Single-Molecule Magnet. Inorganic Chemistry, 2020, 59, 10379-10383.	4.0	8
23	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
24	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
25	An Encapsulation-Rearrangement Strategy to Integrate Superhydrophobicity into Mesoporous Metal-Organic Frameworks. Matter, 2020, 2, 988-999.	10.0	39
26	Robust fluorescent calcium coordination polymers as Cu²⁺ sensors with high sensitivity and fast response. Journal of Materials Chemistry C, 2020, 8, 6820-6825.	5.5	30
27	High stability of ultra-small and isolated gold nanoparticles in metalâ€“organic framework materials. Journal of Materials Chemistry A, 2019, 7, 17536-17546.	10.3	41
28	Engineering Structural Dynamics of Zirconium Metalâ€“Organic Frameworks Based on Natural C4 Linkers. Journal of the American Chemical Society, 2019, 141, 17207-17216.	13.7	54
29	Improving Alkylamine Incorporation in Porous Polymer Networks through Dopant Incorporation. Advanced Sustainable Systems, 2019, 3, 1900051.	5.3	3
30	Structure-Driven Photoluminescence Enhancement in a Zn-Based Metalâ€“Organic Framework. Chemistry of Materials, 2019, 31, 7933-7940.	6.7	21
31	Quenching of photoluminescence in a Zn-MOF sensor by nitroaromatic molecules. Journal of Materials Chemistry C, 2019, 7, 2625-2632.	5.5	54
32	Stable and Active Oxidation Catalysis by Cooperative Lattice Oxygen Redox on SmMn₂O₅ Mullite Surface. Journal of the American Chemical Society, 2019, 141, 10722-10728.	13.7	64
33	Reactivity of Atomic Layer Deposition Precursors with OH/H2O-Containing Metal Organic Framework Materials. Chemistry of Materials, 2019, 31, 2286-2295.	6.7	16
34	Luminescent Metalâ€“Organic Framework for Lithium Harvesting Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 6561-6568.	6.7	21
35	Creating Hierarchical Pores by Controlled Linker Thermolysis in Multivariate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 2363-2372.	13.7	310
36	Role of Hydrogen Bonding on Transport of Coadsorbed Gases in Metalâ€“Organic Frameworks Materials. Journal of the American Chemical Society, 2018, 140, 856-859.	13.7	26

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37	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C6 alkane isomers. Nature Communications, 2018, 9, 1745.	12.8	251
38	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
39	Simultaneous Trapping of C₂H₂ and C₂H₆ from a Ternary Mixture of C₂H₂/C₂H₄/C₂H₆ in a Robust Metalâ€“Organic Framework for the Purification of C₂H₄. Angewandte Chemie	13.8	223
40	Simultaneous Trapping of C₂H₂ and C₂H₆ from a Ternary Mixture of C₂H₂/C₂H₄/C₂H₆ in a Robust Metalâ€“Organic Framework for the Purification of C₂H₄. Angewandte Chemie, 2018, 130, 16299-16303.	2.0	71
41	Modulation of Water Vapor Sorption by a Fourth-Generation Metalâ€“Organic Material with a Rigid Framework and Self-Switching Pores. Journal of the American Chemical Society, 2018, 140, 12545-12552.	13.7	42
42	Controlling Chemical Reactions in Confined Environments: Water Dissociation in MOF-74. Applied Sciences (Switzerland), 2018, 8, 270.	2.5	10
43	Interaction of Acid Gases SO₂ and NO₂ with Coordinatively Unsaturated Metal Organic Frameworks: M-MOF-74 (M = Zn, Mg, Ni, Co). Chemistry of Materials, 2017, 29, 4227-4235.	6.7	99
44	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. Nature Communications, 2017, 8, 485.	12.8	171
45	Trapping gases in metal-organic frameworks with a selective surface molecular barrier layer. Nature Communications, 2016, 7, 13871.	12.8	60
46	Chemistry in confined spaces: reactivity of the Zn-MOF-74 channels. Journal of Materials Chemistry A, 2016, 4, 13176-13182.	10.3	7
47	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
48	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
49	Understanding and controlling water stability of MOF-74. Journal of Materials Chemistry A, 2016, 4, 5176-5183.	10.3	155
50	Competitive Coadsorption of CO₂ with H₂O, NH₃, SO₂, NO, NO₂, N₂, O₂, and CH₄ in M-MOF-74 (M = Mg, Co, Ni): The Role of Hydrogen Bonding. Chemistry of Materials, 2015, 27, 2203-2217.	6.7	158
51	Structural, elastic, thermal, and electronic responses of small-molecule-loaded metalâ€“organic framework materials. Journal of Materials Chemistry A, 2015, 3, 986-995.	10.3	42
52	Water interactions in metal organic frameworks. CrystEngComm, 2015, 17, 247-260.	2.6	148
53	Study of van der Waals bonding and interactions in metal organic framework materials. Journal of Physics Condensed Matter, 2014, 26, 133002.	1.8	34
54	Synthesis, Characterization, and Photocatalytic Activity of Y-Doped CeO₂ Nanorods. ACS Catalysis, 2014, 4, 577-584.	11.2	301

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55	Water Reaction Mechanism in Metal Organic Frameworks with Coordinatively Unsaturated Metal Ions: MOF-74. Chemistry of Materials, 2014, 26, 6886-6895.	6.7	149
56	Effect of metal/bulk-heterojunction interfacial properties on organic photovoltaic device performance. Journal of Materials Chemistry A, 2014, 2, 15288.	10.3	11
57	Effective sensing of RDX via instant and selective detection of ketone vapors. Chemical Science, 2014, 5, 4873-4877.	7.4	112
58	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
59	Water Cluster Confinement and Methane Adsorption in the Hydrophobic Cavities of a Fluorinated Metalâ€“Organic Framework. Journal of the American Chemical Society, 2013, 135, 12615-12626.	13.7	114
60	Mechanism of Preferential Adsorption of SO₂ into Two Microporous Paddle Wheel Frameworks M(bdc)(ted)_{0.5}. Chemistry of Materials, 2013, 25, 4653-4662.	6.7	127
61	Stability and Hydrolyzation of Metal Organic Frameworks with Paddle-Wheel SBUs upon Hydration. Chemistry of Materials, 2012, 24, 3153-3167.	6.7	368
62	Interaction of Small Molecules within Metal Organic Frameworks Studied by In Situ Vibrational Spectroscopy. , 0, , .		2
63	CO2 Capture by Hybrid Ultramicroporous TIFSIXâ€3â€Ni under Humid Conditions Using Nonâ€Equilibrium Cycling. Angewandte Chemie, 0, , .	2.0	3