

Weigang Lu

List of Publications by Year in descending order

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56
papers

8,038
citations

126708

33
h-index

138251

58
g-index

64
all docs

64
docs citations

64
times ranked

7655
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the structure and function of metal-organic frameworks via linker design. <i>Chemical Society Reviews</i> , 2014, 43, 5561-5593.	18.7	1,792
2	Highly Stable Porous Polymer Networks with Exceptionally High Gas Uptake Capacities. <i>Advanced Materials</i> , 2011, 23, 3723-3725.	11.1	528
3	Sulfonate-Grafted Porous Polymer Networks for Preferential CO ₂ Adsorption at Low Pressure. <i>Journal of the American Chemical Society</i> , 2011, 133, 18126-18129.	6.6	522
4	Polyamine-Ethered Porous Polymer Networks for Carbon Dioxide Capture from Flue Gas. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7480-7484.	7.2	518
5	Porous Polymer Networks: Synthesis, Porosity, and Applications in Gas Storage/Separation. <i>Chemistry of Materials</i> , 2010, 22, 5964-5972.	3.2	512
6	Sequential Linker Installation: Precise Placement of Functional Groups in Multivariate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2015, 137, 3177-3180.	6.6	323
7	Metal-organic frameworks as photoluminescent biosensing platforms: mechanisms and applications. <i>Chemical Society Reviews</i> , 2021, 50, 4484-4513.	18.7	322
8	A porous metal-organic framework with ultrahigh acetylene uptake capacity under ambient conditions. <i>Nature Communications</i> , 2015, 6, 7575.	5.8	288
9	Linker Installation: Engineering Pore Environment with Precisely Placed Functionalities in Zirconium MOFs. <i>Journal of the American Chemical Society</i> , 2016, 138, 8912-8919.	6.6	278
10	Orthogonal-array dynamic molecular sieving of propylene/propane mixtures. <i>Nature</i> , 2021, 595, 542-548.	18.7	273
11	Cage-Interconnected Metal-Organic Framework with Tailored Apertures for Efficient C ₂ H ₆ /C ₂ H ₄ Separation under Humid Conditions. <i>Journal of the American Chemical Society</i> , 2019, 141, 20390-20396.	6.6	212
12	Induced Fit of C ₂ H ₂ in a Flexible MOF Through Cooperative Action of Open Metal Sites. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8515-8519.	7.2	208
13	Flexible Zirconium Metal-Organic Frameworks as Bioinspired Switchable Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10776-10780.	7.2	179
14	Cooperative Cluster Metalation and Ligand Migration in Zirconium Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14696-14700.	7.2	169
15	Carbon Dioxide Capture from Air Using Amine-Grafted Porous Polymer Networks. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4057-4061.	1.5	153
16	Building multiple adsorption sites in porous polymer networks for carbon capture applications. <i>Energy and Environmental Science</i> , 2013, 6, 3559.	15.6	130
17	pH-Modulated luminescence switching in a Eu-MOF: rapid detection of acidic amino acids. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11127-11133.	5.2	108
18	A Highly Porous and Robust (3,3,4)-Connected Metal-Organic Framework Assembled with a 90° Bridging Angle Embedded Octacarboxylate Ligand. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1580-1584.	7.2	106

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19	Surface functionalization of metal-organic polyhedron for homogeneous cyclopropanation catalysis. <i>Chemical Communications</i> , 2011, 47, 4968.	2.2	98
20	Facile fabrication of cost-effective porous polymer networks for highly selective CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3252-3256.	5.2	96
21	Building a Pyrazole-Benzothiadiazole-Pyrazole Photosensitizer into Metal-Organic Frameworks for Photocatalytic Aerobic Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 21340-21349.	6.6	84
22	Fine-Tuning Apertures of Metal-Organic Cages: Encapsulation of Carbon Dioxide in Solution and Solid State. <i>Journal of the American Chemical Society</i> , 2019, 141, 11621-11627.	6.6	70
23	Tandem Förster Resonance Energy Transfer Induced Luminescent Ratiometric Thermometry in Dye-Encapsulated Biological Metal-Organic Frameworks. <i>Advanced Optical Materials</i> , 2019, 7, 1801149.	3.6	68
24	Rational Design and Synthesis of Porous Polymer Networks: Toward High Surface Area. <i>Chemistry of Materials</i> , 2014, 26, 4589-4597.	3.2	66
25	Topology-guided design of an anionic bor-network for photocatalytic [Ru(bpy) ₃] ²⁺ encapsulation. <i>Chemical Communications</i> , 2016, 52, 1926-1929.	2.2	62
26	Highly porous metal-organic framework sustained with 12-connected nanoscopic octahedra. <i>Dalton Transactions</i> , 2013, 42, 1708-1714.	1.6	61
27	Flexible Zirconium Metal-Organic Frameworks as Bioinspired Switchable Catalysts. <i>Angewandte Chemie</i> , 2016, 128, 10934-10938.	1.6	53
28	A metal-organic framework for C ₂ H ₂ /CO ₂ separation under highly humid conditions: Balanced hydrophilicity/hydrophobicity. <i>Chemical Engineering Journal</i> , 2022, 427, 132033.	6.6	53
29	Design and synthesis of nucleobase-incorporated metal-organic materials. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 159.	3.0	52
30	Induced Fit of C ₂ H ₂ in a Flexible MOF Through Cooperative Action of Open Metal Sites. <i>Angewandte Chemie</i> , 2019, 131, 8603-8607.	1.6	52
31	Cost-Effective Synthesis of Amine-Tethered Porous Materials for Carbon Capture. <i>ChemSusChem</i> , 2015, 8, 433-438.	3.6	42
32	Exclusive Recognition of Acetone in a Luminescent BioMOF through Multiple Hydrogen-Bonding Interactions. <i>Inorganic Chemistry</i> , 2019, 58, 7667-7671.	1.9	39
33	Pyrazine functionalization to boost the antenna effect in rare-earth metal-organic frameworks for tetracycline detection. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1714-1721.	3.0	35
34	Ultrasensitive and highly selective detection of formaldehyde via an adenine-based biological metal-organic framework. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2416-2424.	3.2	34
35	A pH-regulated ratiometric luminescence Eu-MOF for rapid detection of toxic mycotoxin in moldy sugarcane. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4385-4391.	2.7	32
36	Exohedral Cuprofullerene: Sequentially Expanding Metal Olefin Up to a C ₆₀ @Cu ₂₄ Rhombicuboctahedron. <i>Journal of the American Chemical Society</i> , 2020, 142, 5943-5947.	6.6	30

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37	A microporous <i>shp</i> -topology metal-organic framework with an unprecedented high-nuclearity Co ₁₀ -cluster for iodine capture and histidine detection. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4300-4309.	3.2	27
38	Mixed-Linker Isoreticular Zn(II) Metal-Organic Frameworks as Brønsted Acid-Base Bifunctional Catalysts for Knoevenagel Condensation Reactions. <i>Inorganic Chemistry</i> , 2022, 61, 8339-8348.	1.9	27
39	Cr ₂ O ₇ ²⁻ inside Zr/Hf-based metal-organic frameworks: highly sensitive and selective detection and crystallographic evidence. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16974-16983.	2.7	26
40	A chemopalette strategy for white light by modulating monomeric and excimeric phosphorescence of a simple Cu ₃ cyclic trinuclear unit. <i>Chemical Communications</i> , 2019, 55, 4635-4638.	2.2	25
41	Counteranion-Triggered and Excitation-Dependent Chemopalette Effect in a Supramolecular Dual-Emissive System Based on Cu ₃ Pz ₃ . <i>Inorganic Chemistry</i> , 2019, 58, 1081-1090.	1.9	24
42	Substituent Influence on Structural and Luminescent Diversities of Cu ₃ (pyrazolate) ₃ -Cu ₃ Coordination Supramolecular Isomers. <i>Crystal Growth and Design</i> , 2018, 18, 7663-7673.	1.4	22
43	Tuning the C2/C1 Hydrocarbon Separation Performance in a BioMOF by Surface Functionalization. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 4205-4210.	1.0	21
44	A zirconium metal-organic framework with an exceptionally high volumetric surface area. <i>Dalton Transactions</i> , 2017, 46, 14270-14276.	1.6	19
45	Adsorptive removal of <i>p</i> -nitrophenol from water with mechano-synthesized porous organic polymers. <i>New Journal of Chemistry</i> , 2018, 42, 20205-20211.	1.4	18
46	Reversible Multiphase Transition in a BioMOF and Its Distinctive Luminescence Turn-On in Alcohol Vapor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38503-38509.	4.0	18
47	Optimizing supramolecular interactions in metal-organic frameworks for C ₂ separation. <i>Dalton Transactions</i> , 2020, 49, 15548-15559.	1.6	14
48	Phosphorescent Metal Rotaxane-like Bimetallic Ag/Au Clusters. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9400-9410.	1.5	11
49	Biomimetic mimicry of formaldehyde-induced DNA-protein crosslinks in the confined space of a metal-organic framework. <i>Chemical Science</i> , 2022, 13, 4813-4820.	3.7	7
50	Regioisomeric Core-shell Cuprofullerene C ₆₀ @Cu ₂₄ . <i>Chemical Communications</i> , 2022, , .	2.2	6
51	Kinetic Separation of C ₂ H ₆ /C ₂ H ₄ in A Cage-Interconnected Metal-Organic Framework: An Interaction-Screening Mechanism. <i>Inorganic Chemistry Frontiers</i> , 0, , .	3.0	5
52	Metal-organic frameworks and porous polymer networks for carbon capture. <i>Sustainable Technologies Systems & Policies</i> , 2012, , 16.	0.0	4
53	Formaldehyde recognition through amination in a luminescent metal-organic framework. <i>Chemical Communications</i> , 2022, 58, 6490-6493.	2.2	3
54	An Adenine-Based Biological Metal-Organic Framework as an Efficient Luminescent Sensor for Tetracycline Detection. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	3

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55	Porous Polymer Networks: Highly Stable Porous Polymer Networks with Exceptionally High Gas Uptake Capacities (Adv. Mater. 32/2011). Advanced Materials, 2011, 23, 3608-3608.	11.1	1
56	Innenrücktitelbild: Flexible Zirconium Metal-Organic Frameworks as Bioinspired Switchable Catalysts (Angew. Chem. 36/2016). Angewandte Chemie, 2016, 128, 11079-11079.	1.6	0