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	A metal-organic framework for C2H2/CO2 separation under highly humid conditions: Balanced hydrophilicity/hydrophobicity. Chemical Engineering Journal, 2022, 427, 132033.	6.6	53
2	Regioisomeric Core-shell Cuprofullerene C₆₀@Cu₂₄. Chemical Communications, 2022, , .	2.2	6
3	Biomimetic mimicry of formaldehyde-induced DNAâ€“protein crosslinks in the confined space of a metalâ€“organic framework. Chemical Science, 2022, 13, 4813-4820.	3.7	7
4	Pyrazine functionalization to boost the antenna effect in rare-earth metalâ€“organic frameworks for tetracycline detection. Inorganic Chemistry Frontiers, 2022, 9, 1714-1721.	3.0	35
5	Formaldehyde recognition through aminal formation in a luminescent metalâ€“organic framework. Chemical Communications, 2022, 58, 6490-6493.	2.2	3
6	Mixed-Linker Isoreticular Zn(II) Metalâ€“Organic Frameworks as BrÃ¸nsted Acidâ€“Base Bifunctional Catalysts for Knoevenagel Condensation Reactions. Inorganic Chemistry, 2022, 61, 8339-8348.	1.9	27
7	An Adenineâ€Based Biological Metalâ€Organic Framework as an Efficient Luminescent Sensor for Tetracycline Detection. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	3
8	Ultrasensitive and highly selective detection of formaldehyde via an adenine-based biological metalâ€“organic framework. Materials Chemistry Frontiers, 2021, 5, 2416-2424.	3.2	34
9	Phosphorescent Metal Rotaxane-like Bimetallic Ag/Au Clusters. Journal of Physical Chemistry C, 2021, 125, 9400-9410.	1.5	11
10	Orthogonal-array dynamic molecular sieving of propylene/propane mixtures. Nature, 2021, 595, 542-548.	13.7	273
11	Metalâ€“organic frameworks as photoluminescent biosensing platforms: mechanisms and applications. Chemical Society Reviews, 2021, 50, 4484-4513.	18.7	322
12	A microporous shp-topology metalâ€“organic framework with an unprecedented high-nuclearity Co₁₀-cluster for iodine capture and histidine detection. Materials Chemistry Frontiers, 2021, 5, 4300-4309.	3.2	27
13	Building a Pyrazoleâ€“Benzothiadiazoleâ€“Pyrazole Photosensitizer into Metalâ€“Organic Frameworks for Photocatalytic Aerobic Oxidation. Journal of the American Chemical Society, 2021, 143, 21340-21349.	6.6	84
14	Cr₂O₇^{2â^’} inside Zr/Hf-based metalâ€“organic frameworks: highly sensitive and selective detection and crystallographic evidence. Journal of Materials Chemistry C, 2020, 8, 16974-16983.	2.7	26
15	Optimizing supramolecular interactions in metalâ€“organic frameworks for C₂separation. Dalton Transactions, 2020, 49, 15548-15559.	1.6	14
16	Exohedral Cuprofullerene: Sequentially Expanding Metal Olefin Up to a C₆₀@Cu₂₄ Rhombicuboctahedron. Journal of the American Chemical Society, 2020, 142, 5943-5947.	6.6	30
17	A pH-regulated ratiometric luminescence Eu-MOF for rapid detection of toxic mycotoxin in moldy sugarcane. Journal of Materials Chemistry C, 2020, 8, 4385-4391.	2.7	32
18	Tuning the C2/C1 Hydrocarbon Separation Performance in a BioMOF by Surface Functionalization. European Journal of Inorganic Chemistry, 2019, 2019, 4205-4210.	1.0	21

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19	Reversible Multiphase Transition in a BioMOF and Its Distinctive Luminescence Turn-On in Alcohol Vapor. ACS Applied Materials & Interfaces, 2019, 11, 38503-38509.	4.0	18
20	Fine-Tuning Apertures of Metalâ€“Organic Cages: Encapsulation of Carbon Dioxide in Solution and Solid State. Journal of the American Chemical Society, 2019, 141, 11621-11627.	6.6	70
21	Exclusive Recognition of Acetone in a Luminescent BioMOF through Multiple Hydrogen-Bonding Interactions. Inorganic Chemistry, 2019, 58, 7667-7671.	1.9	39
22	Induced Fit of C₂H₂ in a Flexible MOF Through Cooperative Action of Open Metal Sites. Angewandte Chemie, 2019, 131, 8603-8607.	1.6	52
23	Induced Fit of C₂H₂ in a Flexible MOF Through Cooperative Action of Open Metal Sites. Angewandte Chemie - International Edition, 2019, 58, 8515-8519.	7.2	208
24	A chemopalette strategy for white light by modulating monomeric and excimeric phosphorescence of a simple Cu(<scp>i</scp>) cyclic trinuclear unit. Chemical Communications, 2019, 55, 4635-4638.	2.2	25
25	pH-Modulated luminescence switching in a Eu-MOF: rapid detection of acidic amino acids. Journal of Materials Chemistry A, 2019, 7, 11127-11133.	5.2	108
26	Cage-Interconnected Metalâ€“Organic Framework with Tailored Apertures for Efficient C₂H₆/C₂H₄ Separation under Humid Conditions. Journal of the American Chemical Society, 2019, 141, 20390-20396.	6.6	212
27	Tandem FÃ¶rster Resonance Energy Transfer Induced Luminescent Ratiometric Thermometry in Dyeâ€Encapsulated Biological Metalâ€“Organic Frameworks. Advanced Optical Materials, 2019, 7, 1801149.	3.6	68
28	Counteranion-Triggered and Excitation-Dependent Chemopalette Effect in a Supramolecular Dual-Emissive System Based on Cu₃Pz₃. Inorganic Chemistry, 2019, 58, 1081-1090.	1.9	24
29	Adsorptive removal of p-nitrophenol from water with mechano-synthesized porous organic polymers. New Journal of Chemistry, 2018, 42, 20205-20211.	1.4	18
30	Substituent Influence on Structural and Luminescent Diversities of Cu₃(pyrazolate)₃-Cu_nI_n Coordination Supramolecular Isomers. Crystal Growth and Design, 2018, 18, 7663-7673.	1.4	22
31	A zirconium metalâ€“organic framework with an exceptionally high volumetric surface area. Dalton Transactions, 2017, 46, 14270-14276.	1.6	19
32	Flexible Zirconium Metalâ€Organic Frameworks as Bioinspired Switchable Catalysts. Angewandte Chemie - International Edition, 2016, 55, 10776-10780.	7.2	179
33	Flexible Zirconium Metalâ€Organic Frameworks as Bioinspired Switchable Catalysts. Angewandte Chemie, 2016, 128, 10934-10938.	1.6	53
34	InnenrÃ¼cktitelbild: Flexible Zirconium Metalâ€Organic Frameworks as Bioinspired Switchable Catalysts (Angew. Chem. 36/2016). Angewandte Chemie, 2016, 128, 11079-11079.	1.6	0
35	Linker Installation: Engineering Pore Environment with Precisely Placed Functionalities in Zirconium MOFs. Journal of the American Chemical Society, 2016, 138, 8912-8919.	6.6	278
36	Topology-guided design of an anionic bor-network for photocatalytic [Ru(bpy)3]2+ encapsulation. Chemical Communications, 2016, 52, 1926-1929.	2.2	62

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37	Cooperative Cluster Metalation and Ligand Migration in Zirconium Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2015, 54, 14696-14700.	7.2	169
38	Facile fabrication of cost-effective porous polymer networks for highly selective CO₂capture. Journal of Materials Chemistry A, 2015, 3, 3252-3256.	5.2	96
39	Sequential Linker Installation: Precise Placement of Functional Groups in Multivariate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 3177-3180.	6.6	323
40	A porous metal-organic framework with ultrahigh acetylene uptake capacity under ambient conditions. Nature Communications, 2015, 6, 7575.	5.8	288
41	Costâ€Effective Synthesis of Amineâ€Tethered Porous Materials for Carbon Capture. ChemSusChem, 2015, 8, 433-438.	3.6	42
42	Design and synthesis of nucleobase-incorporated metalâ€“organic materials. Inorganic Chemistry Frontiers, 2014, 1, 159.	3.0	52
43	Rational Design and Synthesis of Porous Polymer Networks: Toward High Surface Area. Chemistry of Materials, 2014, 26, 4589-4597.	3.2	66
44	Tuning the structure and function of metalâ€“organic frameworks via linker design. Chemical Society Reviews, 2014, 43, 5561-5593.	18.7	1,792
45	Building multiple adsorption sites in porous polymer networks for carbon capture applications. Energy and Environmental Science, 2013, 6, 3559.	15.6	130
46	Carbon Dioxide Capture from Air Using Amine-Grafted Porous Polymer Networks. Journal of Physical Chemistry C, 2013, 117, 4057-4061.	1.5	153
47	Highly porous metalâ€“organic framework sustained with 12-connected nanoscopic octahedra. Dalton Transactions, 2013, 42, 1708-1714.	1.6	61
48	Metal-organic frameworks and porous polymer networks for carbon capture. Sustainable Technologies Systems & Policies, 2012, , 16.	0.0	4
49	Polyamineâ€Tethered Porous Polymer Networks for Carbon Dioxide Capture from Flue Gas. Angewandte Chemie - International Edition, 2012, 51, 7480-7484.	7.2	518
50	A Highly Porous and Robust (3,3,4)â€Connected Metalâ€“Organic Framework Assembled with a 90Â° Bridgingâ€Angle Embedded Octacarboxylate Ligand. Angewandte Chemie - International Edition, 2012, 51, 1580-1584.	7.2	106
51	Surface functionalization of metalâ€“organic polyhedron for homogeneous cyclopropanation catalysis. Chemical Communications, 2011, 47, 4968.	2.2	98
52	Sulfonate-Grafted Porous Polymer Networks for Preferential CO₂ Adsorption at Low Pressure. Journal of the American Chemical Society, 2011, 133, 18126-18129.	6.6	522
53	Highly Stable Porous Polymer Networks with Exceptionally High Gasâ€Uptake Capacities. Advanced Materials, 2011, 23, 3723-3725.	11.1	528
54	Porous Polymer Networks: Highly Stable Porous Polymer Networks with Exceptionally High Gasâ€Uptake Capacities (Adv. Mater. 32/2011). Advanced Materials, 2011, 23, 3608-3608.	11.1	1

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55	Porous Polymer Networks: Synthesis, Porosity, and Applications in Gas Storage/Separation. Chemistry of Materials, 2010, 22, 5964-5972.	3.2	512
56	Kinetic Separation of C2H6/C2H4 in A Cage-Interconnected Metal-Organic Framework: An Interaction-Screening Mechanism. Inorganic Chemistry Frontiers, 0, , .	3.0	5