Lei Hou

List of Publications by Year
in descending order

107 papers	5,140 citations	101543 36 h-index	95266 68 g-index
107 all docs	107 docs citations	107 times ranked	3717 citing authors

#	Article	IF	Citations
1	Uncommon Pyrazoyl-Carboxyl Bifunctional Ligand-Based Microporous Lanthanide Systems: Sorption and Luminescent Sensing Properties. Inorganic Chemistry, 2016, 55, 3952-3959.	4.0	276
2	Four uncommon nanocage-based Ln-MOFs: highly selective luminescent sensing for Cu²⁺ions and selective CO₂capture. Chemical Communications, 2014, 50, 8731.	4.1	245
3	Porous Metalâ^'Organic Framework Based on Î¼₄-oxo Tetrazinc Clusters: Sorption and Guest-Dependent Luminescent Properties. Inorganic Chemistry, 2008, 47, 1346-1351.	4.0	185
4	Porous MOF with Highly Efficient Selectivity and Chemical Conversion for CO₂. ACS Applied Materials & Interfaces, 2017, 9, 17969-17976.	8.0	173
5	Molecular braids in metalâ€“organic frameworks. Chemical Society Reviews, 2012, 41, 6992.	38.1	166
6	A robust cluster-based Eu-MOF as multi-functional fluorescence sensor for detection of antibiotics and pesticides in water. Sensors and Actuators B: Chemical, 2021, 331, 129377.	7.8	155
7	A rod packing microporous metalâ€“organic framework: unprecedented ukv topology, high sorption selectivity and affinity for CO₂. Chemical Communications, 2011, 47, 5464-5466.	4.1	152
8	Supramolecular control of MOF pore properties for the tailored guest adsorption/separation applications. Coordination Chemistry Reviews, 2021, 434, 213709.	18.8	141
9	Honeycomb Metalâ€“Organic Framework with Lewis Acidic and Basic Bifunctional Sites: Selective Adsorption and CO₂ Catalytic Fixation. ACS Applied Materials & Interfaces, 2018, 10, 10965-10973.	8.0	138
10	Two Unusual Nanocageâ€Based Lnâ€MOFs with Triazole Sites: Highly Fluorescent Sensing for Fe³⁺ and Cr₂O₇^{2â^'}, and Selective CO₂ Capture. ChemPlusChem, 2016, 81, 1299-1304.	2.8	133
11	Investigation on the prime factors influencing the formation of entangled metalâ€“organic frameworks. CrystEngComm, 2013, 15, 2561.	2.6	131
12	Efficient light hydrocarbon separation and CO₂ capture and conversion in a stable MOF with oxalamide-decorated polar tubes. Chemical Communications, 2017, 53, 12970-12973.	4.1	121
13	An octacobalt cluster based, (3,12)-connected, magnetic, porous coordination polymer. Chemical Communications, 2010, 46, 6311.	4.1	116
14	An Uncommon Carboxylâ€Decorated Metalâ€“Organic Framework with Selective Gas Adsorption and Catalytic Conversion of CO₂. Chemistry - A European Journal, 2018, 24, 865-871.	3.3	112
15	Thiol-Functionalized Pores via Post-Synthesis Modification in a Metalâ€“Organic Framework with Selective Removal of Hg(II) in Water. Inorganic Chemistry, 2019, 58, 3409-3415.	4.0	109
16	Novel cage-like MOF for gas separation, CO₂ conversion and selective adsorption of an organic dye. Inorganic Chemistry Frontiers, 2020, 7, 746-755.	6.0	99
17	Four new metalâ€“organic frameworks based on diverse secondary building units: sensing and magnetic properties. Dalton Transactions, 2018, 47, 1682-1692.	3.3	98
18	Two highly-connected, chiral, porous coordination polymers featuring novel heptanuclear metal carboxylate clusters. Chemical Communications, 2008, , 4019.	4.1	90

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19	Luminescence Modulation, White Light Emission, and Energy Transfer in a Family of Lanthanide Metalâ€“Organic Frameworks Based on a Planar Ï€-Conjugated Ligand. Crystal Growth and Design, 2017, 17, 4217-4224.	3.0	82
20	Exploring the hydrogen-bond structures in sodium alginate through two-dimensional correlation infrared spectroscopy. Carbohydrate Polymers, 2019, 205, 420-426.	10.2	82
21	A Cationic MOF with High Uptake and Selectivity for CO₂ due to Multiple CO₂â€Philic Sites. Chemistry - A European Journal, 2015, 21, 16525-16531.	3.3	72
22	A New Porous MOF with Two Uncommon Metalâ€“Carboxylateâ€“Pyrazolate Clusters and High CO₂/N₂ Selectivity. Inorganic Chemistry, 2015, 54, 1841-1846.	4.0	71
23	Structural diversity of five new bitriazole-based complexes: luminescence, sorption, and magnetic properties. Dalton Transactions, 2015, 44, 1110-1119.	3.3	69
24	Multiple Functions of Gas Separation and Vapor Adsorption in a New MOF with Open Tubular Channels. ACS Applied Materials & Interfaces, 2021, 13, 4102-4109.	8.0	67
25	A new stable luminescent Cd(<scp>ii</scp>) metalâ€“organic framework with fluorescent sensing and selective dye adsorption properties. Dalton Transactions, 2018, 47, 9466-9473.	3.3	65
26	Highly selective luminescence sensing for Cu²⁺ ions and selective CO₂ capture in a doubly interpenetrated MOF with Lewis basic pyridyl sites. Dalton Transactions, 2015, 44, 4423-4427.	3.3	64
27	Efficient C₂H_n Hydrocarbons and VOC Adsorption and Separation in an MOF with Lewis Basic and Acidic Decorated Active Sites. ACS Applied Materials & Interfaces, 2020, 12, 41785-41793.	8.0	64
28	Three new solvent-directed 3D lead(ii)â€“MOFs displaying the unique properties of luminescence and selective CO2 sorption. Dalton Transactions, 2013, 42, 13590.	3.3	57
29	Tunable Emission and Selective Luminescence Sensing in a Series of Lanthanide Metalâ€“Organic Frameworks with Uncoordinated Lewis Basic Triazolyl Sites. Crystal Growth and Design, 2018, 18, 2031-2039.	3.0	57
30	Oneâ€Step C₂H₄Purification from Ternary C₂H₆/C₂H₄/C₂H₂Mixtures by a Robust Metalâ€“Organic Framework with Customized Pore Environment. Angewandte Chemie - International Edition, 2022, 61, .	13.8	57
31	Stable Indium-Pyridylcarboxylate Framework: Selective Gas Capture and Sensing of Fe³⁺ Ion in Water. Inorganic Chemistry, 2018, 57, 15262-15269.	4.0	53
32	Nonenzymatic Glucose Sensing and Magnetic Property Based On the Composite Formed by Encapsulating Ag Nanoparticles in Cluster-Based Co-MOF. Inorganic Chemistry, 2019, 58, 16743-16751.	4.0	51
33	Rational construction of a stable Zn₄O-based MOF for highly efficient CO₂ capture and conversion. Chemical Communications, 2018, 54, 456-459.	4.1	48
34	Structural Diversity of Cadmium(II) Coordination Polymers Induced by Tuning the Coordination Sites of Isomeric Ligands. Inorganic Chemistry, 2016, 55, 8871-8880.	4.0	43
35	Post-Synthetic Functionalization of Ni-MOF by Eu³⁺ Ions: Luminescent Probe for Aspartic Acid and Magnetic Property. Inorganic Chemistry, 2020, 59, 7531-7538.	4.0	43
36	A highly stable MOF with F and N accessible sites for efficient capture and separation of acetylene from ternary mixtures. Journal of Materials Chemistry A, 2021, 9, 24495-24502.	10.3	40

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37	A new honeycomb metalâ€“carboxylate-tetrazolate framework with multiple functions for CO₂ conversion and selective capture of C₂H₂, CO₂ and benzene. Inorganic Chemistry Frontiers, 2020, 7, 1957-1964.	6.0	39
38	A Multi-Functional In(III)-Organic Framework for Acetylene Separation, Carbon Dioxide Utilization, and Antibiotic Detection in Water. Inorganic Chemistry, 2020, 59, 15302-15311.	4.0	38
39	Four New 3D Metalâ€“Organic Frameworks Constructed by a V-shaped Tetracarboxylates Ligand: Selective CO₂ Sorption and Luminescent Sensing. Crystal Growth and Design, 2017, 17, 6733-6740.	3.0	37
40	Five New Cd(II) Complexes Induced by Reaction Conditions and Coordination Modes of 5-(1H-Tetrazol-5-yl)isophthalic Acid Ligand: Structures and Luminescence. Crystal Growth and Design, 2016, 16, 5394-5402.	3.0	36
41	Efficient gas and alcohol uptake and separation driven by two types of channels in a porous MOF: an experimental and theoretical investigation. Journal of Materials Chemistry A, 2020, 8, 5227-5233.	10.3	36
42	Syntheses of three new isostructural lanthanide coordination polymers with tunable emission colours through bimetallic doping, and their luminescence sensing properties. Dalton Transactions, 2019, 48, 13607-13613.	3.3	35
43	Two new pH-controlled metalâ€“organic frameworks based on polynuclear secondary building units with conformation-flexible cyclohexane-1,2,4,5-tetracarboxylate ligand. Inorganica Chimica Acta, 2011, 367, 127-134.	2.4	34
44	Two Nanocage-Based Metalâ€“Organic Frameworks with Mixed-Cluster SBUs and CO2 Sorption Selectivity. Inorganic Chemistry, 2015, 54, 8937-8942.	4.0	34
45	Three new energetic complexes with N,N-bis(1H-tetrazole-5-yl)-amine as high energy density materials: syntheses, structures, characterization and effects on the thermal decomposition of RDX. Dalton Transactions, 2017, 46, 2626-2634.	3.3	34
46	Direct Evidence: Enhanced C₂H₆ and C₂H₄ Adsorption and Separation Performances by Introducing Open Nitrogen-Donor Sites in a MOF. Inorganic Chemistry, 2018, 57, 12417-12423.	4.0	34
47	Performance enhancement of oxygen evolution reaction through incorporating bimetallic electrocatalysts in two-dimensional metalâ€“organic frameworks. Catalysis Science and Technology, 2020, 10, 3897-3903.	4.1	34
48	Functionalization of MOFs via a mixed-ligand strategy: enhanced CO₂ uptake by pore surface modification. Dalton Transactions, 2018, 47, 5298-5303.	3.3	33
49	Five transition metal coordination polymers driven by a semirigid trifunctional nicotinic acid ligand: selective adsorption and magnetic properties. CrystEngComm, 2018, 20, 5726-5734.	2.6	33
50	Two Robust In(III)-Based Metalâ€“Organic Frameworks with Higher Gas Separation, Efficient Carbon Dioxide Conversion, and Rapid Detection of Antibiotics. Inorganic Chemistry, 2020, 59, 5231-5239.	4.0	31
51	A polar tetrazolyl-carboxyl microporous Zn(ii)â€“MOF: sorption and luminescent properties. Dalton Transactions, 2013, 42, 3653.	3.3	29
52	Four new 3D metalâ€“organic frameworks constructed by the asymmetrical pentacarboxylate: gas sorption behaviour and magnetic properties. Dalton Transactions, 2016, 45, 15473-15480.	3.3	29
53	Effective C₂H₂ Separation and Nitrofurazone Detection in a Stable Indiumâ€“Organic Framework. Inorganic Chemistry, 2020, 59, 2853-2860.	4.0	29
54	Fluorine-Substituted Regulation in Two Comparable Isostructural Cd(II) Coordination Polymers: Enhanced Fluorescence Detection for Tetracyclines in Water. Crystal Growth and Design, 2021, 21, 2488-2497.	3.0	29

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55	Amide-Functionalized In-MOF for Effective Hydrocarbon Separation and CO₂ Catalytic Fixation. Inorganic Chemistry, 2022, 61, 2679-2685.	4.0	29
56	A chiral metalâ€“organic framework with polar channels: unique interweaving six-fold helices and high CO₂/CH₄ separation. Inorganic Chemistry Frontiers, 2016, 3, 1326-1331.	6.0	28
57	A Dy₆-cluster-basedfcu-MOF with efficient separation of C₂H₂/C₂H₄and selective adsorption of benzene. Inorganic Chemistry Frontiers, 2021, 8, 376-382.	6.0	28
58	A Two-Coordinate Neutral Germylene Supported by a Î²-Diketiminate Ligand in the Radical State. Organometallics, 2017, 36, 2706-2709.	2.3	27
59	Selective CO₂ adsorption in a microporous metalâ€“organic framework with suitable pore sizes and open metal sites. Inorganic Chemistry Frontiers, 2015, 2, 550-557.	6.0	26
60	Acetylene Separation by a Ca-MOF Containing Accessible Sites of Open Metal Centers and Organic Groups. ACS Applied Materials & Interfaces, 2021, 13, 58862-58870.	8.0	26
61	Two New (3,6)-Connected Frameworks Based on an Unsymmetrical Tritopic Pyridyldicarboxylate Ligand and Co₂ Dimer: Structures, Magnetic, and Sorption Properties. Crystal Growth and Design, 2013, 13, 701-707.	3.0	25
62	New porous coordination polymers based on expanded pyridyl-dicarboxylate ligands and a paddle-wheel cluster. CrystEngComm, 2014, 16, 6325-6330.	2.6	25
63	An Interpenetrated Pillar-Layered Metal-Organic Framework with Novel Clusters: Reversible Structural Transformation and Selective Gate-Opening Adsorption. Crystal Growth and Design, 2018, 18, 3044-3050.	3.0	25
64	Design of Antiâ€UV Radiation Textiles with Selfâ€Assembled Metalâ€“Organic Framework Coating. Advanced Materials Interfaces, 2020, 7, 1901525.	3.7	25
65	Dynamic porous coordination polymer based on 2D stacked layers exhibiting high sorption selectivity for CO2. Dalton Transactions, 2012, 41, 3209.	3.3	24
66	Construction of Highly Porous Pillared Metalâ€“Organic Frameworks: Rational Synthesis, Structure, and Gas Sorption Properties. Inorganic Chemistry, 2017, 56, 9147-9155.	4.0	23
67	Four alkaline earth metal (Mg, Ca, Sr, Ba)-based MOFs as multiresponsive fluorescent sensors for Fe3+, Pb2+ and Cu2+ ions in aqueous solution. Journal of Solid State Chemistry, 2019, 277, 636-647.	2.9	23
68	Exploring the diffusion behavior of urea aqueous solution in the viscose film by ATR-FTIR spectroscopy. Cellulose, 2020, 27, 2403-2415.	4.9	23
69	Efficient Gas and VOC Separation and Pesticide Detection in a Highly Stable Interpenetrated Indiumâ€“Organic Framework. Inorganic Chemistry, 2021, 60, 10698-10706.	4.0	23
70	Ligand Configuration-Induced Manganese(II) Coordination Polymers: Syntheses, Crystal Structures, Sorption, and Magnetic Properties. Inorganic Chemistry, 2017, 56, 10090-10098.	4.0	22
71	Two-dimensional correlation infrared spectroscopy of heat-induced esterification of cellulose with 1,2,3,4-butanetetracarboxylic acid in the presence of sodium hypophosphite. Cellulose, 2019, 26, 2759-2769.	4.9	22
72	Effect of overexpression of transcription factors on the fermentation properties ofSaccharomyces cerevisiaeindustrial strains. Letters in Applied Microbiology, 2009, 49, 14-19.	2.2	21

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73	A new layer-stacked porous framework showing sorption selectivity for CO₂ and luminescence. Dalton Transactions, 2017, 46, 11722-11727.	3.3	20
74	Two metalâ€“organic frameworks based on a flexible benzimidazole carboxylic acid ligand: selective gas sorption and luminescence. Dalton Transactions, 2017, 46, 15118-15123.	3.3	19
75	A robust ethane-selective metal-organic framework with nonpolar pore surface for efficient C2H6/C2H4 separation. Chemical Engineering Journal, 2022, 433, 133786.	12.7	19
76	New Sesquiterpenoids and a Diterpenoid from Alpinia oxyphylla. Molecules, 2015, 20, 1551-1559.	3.8	18
77	Three New MOFs Induced by Organic Linker Coordination Modes: Gas Sorption, Luminescence, and Magnetic Properties. Chemistry - an Asian Journal, 2019, 14, 2988-2994.	3.3	18
78	Three Lanthanide Metalâ€Organic Frameworks Based on an Etherâ€Decorated Polycarboxylic Acid Linker: Luminescence Modulation, CO₂ Capture and Conversion Properties. Chemistry - an Asian Journal, 2020, 15, 191-197.	3.3	18
79	Five new 3D transition MOFs based on 1-(3,5-dicarboxylatobenzyl)-3,5-pyrazole dicarboxylic acid displaying unique luminescence sensing towards Fe³⁺ and magnetic properties. Dalton Transactions, 2019, 48, 7786-7793.	3.3	17
80	C₂H₂capture and separation in a MOF based on Ni₆trigonal-prismatic units. Chemical Communications, 2022, 58, 6208-6211.	4.1	17
81	A stable Cd(II)-based MOF with efficient CO2 capture and conversion, and fluorescence sensing for ronidazole and dimetridazole. Journal of Solid State Chemistry, 2021, 295, 121890.	2.9	16
82	Efficient One-Step Purification of C₁and C₂Hydrocarbons over CO₂in a New CO₂-Selective MOF with a Gate-Opening Effect. ACS Applied Materials & Interfaces, 2022, 14, 26858-26865.	8.0	16
83	Two Comparable Isostructural Microporous Metal-Organic Frameworks: Better Luminescent Sensor and Higher Adsorption Selectivity for the Fluorine-Decorated Framework. European Journal of Inorganic Chemistry, 2015, 2015, 5773-5780.	2.0	15
84	Oneâ€Step C₂H₄Purification from Ternary C₂H₆/C₂H₄/C₂H₂Mixtures by a Robust Metalâ€“Organic Framework with Customized Pore Environment. Angewandte Chemie, 2022, 134, .	2.0	15
85	Peculiar phenomena of structural transformations triggered from a nickel coordination polymer. CrystEngComm, 2015, 17, 1839-1847.	2.6	14
86	New Supercage Metalâ€“Organic Framework Based on Allopurinol Ligands Showing Acetylene Storage and Separation. Chemistry - A European Journal, 2020, 26, 16402-16407.	3.3	14
87	Luminescent and Magnetic Properties of Coordination Polymers Induced by Coordinating Modes of a Bis(oxamate) Ligand. ChemPlusChem, 2019, 84, 62-68.	2.8	13
88	Ge^Iâ€“Ge^I Coupling Reaction Induced by a Mixture of CoBr₂ and a Seven-Membered N-Heterocyclic Carbene. Inorganic Chemistry, 2018, 57, 2969-2972.	4.0	12
89	New scu topological MOF based on azolyl-carboxyl bifunctional linker: Gas adsorption and luminescence properties. Journal of Solid State Chemistry, 2020, 283, 121170.	2.9	11
90	Three new super water-stable lanthanideâ€“organic frameworks for luminescence sensing and magnetic properties. New Journal of Chemistry, 2018, 42, 9221-9227.	2.8	10

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91	A new metalâ€“organic framework based on rare [Zn₄F₄] cores for efficient separation of C₂H₂. Chemical Communications, 2021, 57, 12788-12791.	4.1	10
92	Indium metalâ€“organic frameworks based on pyridylcarboxylate ligands and their potential applications. Dalton Transactions, 2021, 50, 5713-5723.	3.3	9
93	Two new MOFs based on 5-((4-carboxypyridin-2-yl)oxy) isophthalic acid displaying unique selective CO₂ gas adsorption and magnetic properties. CrystEngComm, 2019, 21, 7078-7084.	2.6	8
94	Two alkaline earth metal coordination polymers based on a new oxamate-dicarboxylate ligand: Selective fluorescence sensing of Fe3+ in aqueous solution. Inorganic Chemistry Communication, 2019, 107, 107490.	3.9	7
95	Five new coordination polymers of s- and d-block metals: Structural diversities, magnetic properties and luminescence. Journal of Solid State Chemistry, 2019, 270, 516-523.	2.9	7
96	A Pb²⁺-based coordination polymer with 5-(1H-tetrazol-5-yl)isophthalic acid ligand: structure and photoluminescence. Journal of Coordination Chemistry, 2016, 69, 2573-2579.	2.2	6
97	Structural Diversity of Three Pyrazoylâ€“Carboxyl Bifunctional Ligandâ€Based Metalâ€“Organic Frameworks: Luminescence and Magnetic Properties. ChemPlusChem, 2017, 82, 376-382.	2.8	6
98	An Anionic Î²â€Diketiminato Oxoborane with a Bâ€“O Double Bond. European Journal of Inorganic Chemistry, 2019, 2019, 2635-2638.	2.0	6
99	Accumulation of phytoene and astaxanthin and related genes expression in Haematococcus pluvialis under sodium acetate stress. Aquatic Biology, 2020, 29, 155-164.	1.4	6
100	A Lead Carboxylateâ€Azolate Metalâ€Organic Framework Based on Hexanuclear Clusters: Luminescence and Accelerating the Thermal Decomposition of Ammonium Perchlorate. ChemPlusChem, 2019, 84, 289-294.	2.8	5
101	Two new coordination polymers based on a pyridine-pyrazole bifunctional linker: Synthesis, structure and luminescent properties. Inorganic Chemistry Communication, 2018, 96, 128-132.	3.9	4
102	Anionic oxoborane and thioxoborane molecules supported by a 1,2-bis(imino)acenaphthene ligand. Dalton Transactions, 2021, 50, 6797-6801.	3.3	3
103	A microporous anionic metalâ€“organic framework for aqueous encapsulation and highly reversible sensitization of light-emitting Tb³⁺ ions. New Journal of Chemistry, 2022, 46, 5201-5205.	2.8	3
104	Two Cu-based cluster coordination polymers constructed from two thioether tripod tricarboxylic acid ligands: Synthesis, crystal structure and fluorescence sensing. Inorganic Chemistry Communication, 2020, 113, 107805.	3.9	2
105	Systematic and efficient synthesis of Î²-diketiminato aluminum halides and their structural characterization. Tetrahedron Letters, 2021, 68, 152942.	1.4	2
106	Automatical encoding of button products based on visual recognition. , 2017, , .		0
107	An Î±-diiminato germylene family: syntheses, structures, and reactivity towards C-C coupled digermylene and digermylene oxide. Dalton Transactions, 2022, , .	3.3	0