

Lei Hou

List of Publications by Year in descending order

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107
papers

5,140
citations

101543

36
h-index

95266

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all docs

107
docs citations

107
times ranked

3717
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust ethane-selective metal-organic framework with nonpolar pore surface for efficient C ₂ H ₆ /C ₂ H ₄ separation. <i>Chemical Engineering Journal</i> , 2022, 433, 133786.	12.7	19
2	Amide-Functionalized In-MOF for Effective Hydrocarbon Separation and CO ₂ Catalytic Fixation. <i>Inorganic Chemistry</i> , 2022, 61, 2679-2685.	4.0	29
3	A microporous anionic metal-organic framework for aqueous encapsulation and highly reversible sensitization of light-emitting Tb ³⁺ ions. <i>New Journal of Chemistry</i> , 2022, 46, 5201-5205.	2.8	3
4	An $\hat{\pm}$ -diiminato germylene family: syntheses, structures, and reactivity towards C-C coupled digermylene and digermylene oxide. <i>Dalton Transactions</i> , 2022, , .	3.3	0
5	C ₂ H ₂ capture and separation in a MOF based on Ni ₆ trigonal-prismatic units. <i>Chemical Communications</i> , 2022, 58, 6208-6211.	4.1	17
6	One-Step C ₂ H ₄ Purification from Ternary C ₂ H ₆ /C ₂ H ₄ /C ₂ H ₂ Mixtures by a Robust Metal-Organic Framework with Customized Pore Environment. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	57
7	One-Step C ₂ H ₄ Purification from Ternary C ₂ H ₆ /C ₂ H ₄ /C ₂ H ₂ Mixtures by a Robust Metal-Organic Framework with Customized Pore Environment. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	15
8	Efficient One-Step Purification of C ₁ and C ₂ Hydrocarbons over CO ₂ in a New CO ₂ -Selective MOF with a Gate-Opening Effect. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26858-26865.	8.0	16
9	A Dy ₆ -cluster-based <i>fcu</i> -MOF with efficient separation of C ₂ H ₂ /C ₂ H ₄ and selective adsorption of benzene. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 376-382.	6.0	28
10	A stable Cd(II)-based MOF with efficient CO ₂ capture and conversion, and fluorescence sensing for ronidazole and dimetridazole. <i>Journal of Solid State Chemistry</i> , 2021, 295, 121890.	2.9	16
11	Indium metal-organic frameworks based on pyridylcarboxylate ligands and their potential applications. <i>Dalton Transactions</i> , 2021, 50, 5713-5723.	3.3	9
12	Multiple Functions of Gas Separation and Vapor Adsorption in a New MOF with Open Tubular Channels. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4102-4109.	8.0	67
13	Fluorine-Substituted Regulation in Two Comparable Isostructural Cd(II) Coordination Polymers: Enhanced Fluorescence Detection for Tetracyclines in Water. <i>Crystal Growth and Design</i> , 2021, 21, 2488-2497.	3.0	29
14	A robust cluster-based Eu-MOF as multi-functional fluorescence sensor for detection of antibiotics and pesticides in water. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129377.	7.8	155
15	Systematic and efficient synthesis of $\hat{2}$ -diketiminato aluminum halides and their structural characterization. <i>Tetrahedron Letters</i> , 2021, 68, 152942.	1.4	2
16	Supramolecular control of MOF pore properties for the tailored guest adsorption/separation applications. <i>Coordination Chemistry Reviews</i> , 2021, 434, 213709.	18.8	141
17	Efficient Gas and VOC Separation and Pesticide Detection in a Highly Stable Interpenetrated Indium-Organic Framework. <i>Inorganic Chemistry</i> , 2021, 60, 10698-10706.	4.0	23
18	Anionic oxoborane and thioxoborane molecules supported by a 1,2-bis(imino)acenaphthene ligand. <i>Dalton Transactions</i> , 2021, 50, 6797-6801.	3.3	3

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19	A highly stable MOF with F and N accessible sites for efficient capture and separation of acetylene from ternary mixtures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24495-24502.	10.3	40
20	A new metal-organic framework based on rare $[Zn_4F_4]$ cores for efficient separation of C_2H_2 . <i>Chemical Communications</i> , 2021, 57, 12788-12791.	4.1	10
21	Acetylene Separation by a Ca-MOF Containing Accessible Sites of Open Metal Centers and Organic Groups. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58862-58870.	8.0	26
22	New scu topological MOF based on azolyl-carboxyl bifunctional linker: Gas adsorption and luminescence properties. <i>Journal of Solid State Chemistry</i> , 2020, 283, 121170.	2.9	11
23	Novel cage-like MOF for gas separation, CO_2 conversion and selective adsorption of an organic dye. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 746-755.	6.0	99
24	Design of Anti-UV Radiation Textiles with Self-Assembled Metal-Organic Framework Coating. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901525.	3.7	25
25	Three Lanthanide Metal-Organic Frameworks Based on an Ether-Decorated Polycarboxylic Acid Linker: Luminescence Modulation, CO_2 Capture and Conversion Properties. <i>Chemistry - an Asian Journal</i> , 2020, 15, 191-197.	3.3	18
26	A Multi-Functional In(III)-Organic Framework for Acetylene Separation, Carbon Dioxide Utilization, and Antibiotic Detection in Water. <i>Inorganic Chemistry</i> , 2020, 59, 15302-15311.	4.0	38
27	New Supercage Metal-Organic Framework Based on Allopurinol Ligands Showing Acetylene Storage and Separation. <i>Chemistry - A European Journal</i> , 2020, 26, 16402-16407.	3.3	14
28	Efficient C_2H_2 Hydrocarbons and VOC Adsorption and Separation in an MOF with Lewis Basic and Acidic Decorated Active Sites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41785-41793.	8.0	64
29	Post-Synthetic Functionalization of Ni-MOF by Eu^{3+} Ions: Luminescent Probe for Aspartic Acid and Magnetic Property. <i>Inorganic Chemistry</i> , 2020, 59, 7531-7538.	4.0	43
30	Performance enhancement of oxygen evolution reaction through incorporating bimetallic electrocatalysts in two-dimensional metal-organic frameworks. <i>Catalysis Science and Technology</i> , 2020, 10, 3897-3903.	4.1	34
31	Two Robust In(III)-Based Metal-Organic Frameworks with Higher Gas Separation, Efficient Carbon Dioxide Conversion, and Rapid Detection of Antibiotics. <i>Inorganic Chemistry</i> , 2020, 59, 5231-5239.	4.0	31
32	A new honeycomb metal-carboxylate-tetrazolate framework with multiple functions for CO_2 conversion and selective capture of C_2H_2 , CO_2 and benzene. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1957-1964.	6.0	39
33	Efficient gas and alcohol uptake and separation driven by two types of channels in a porous MOF: an experimental and theoretical investigation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5227-5233.	10.3	36
34	Effective C_2H_2 Separation and Nitrofurazone Detection in a Stable Indium-Organic Framework. <i>Inorganic Chemistry</i> , 2020, 59, 2853-2860.	4.0	29
35	Exploring the diffusion behavior of urea aqueous solution in the viscose film by ATR-FTIR spectroscopy. <i>Cellulose</i> , 2020, 27, 2403-2415.	4.9	23
36	Two Cu-based cluster coordination polymers constructed from two thioether tripod tricarboxylic acid ligands: Synthesis, crystal structure and fluorescence sensing. <i>Inorganic Chemistry Communication</i> , 2020, 113, 107805.	3.9	2

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37	Accumulation of phytoene and astaxanthin and related genes expression in <i>Haematococcus pluvialis</i> under sodium acetate stress. <i>Aquatic Biology</i> , 2020, 29, 155-164.	1.4	6
38	Four alkaline earth metal (Mg, Ca, Sr, Ba)-based MOFs as multiresponsive fluorescent sensors for Fe ³⁺ , Pb ²⁺ and Cu ²⁺ ions in aqueous solution. <i>Journal of Solid State Chemistry</i> , 2019, 277, 636-647.	2.9	23
39	Three New MOFs Induced by Organic Linker Coordination Modes: Gas Sorption, Luminescence, and Magnetic Properties. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2988-2994.	3.3	18
40	Two alkaline earth metal coordination polymers based on a new oxamate-dicarboxylate ligand: Selective fluorescence sensing of Fe ³⁺ in aqueous solution. <i>Inorganic Chemistry Communication</i> , 2019, 107, 107490.	3.9	7
41	Syntheses of three new isostructural lanthanide coordination polymers with tunable emission colours through bimetallic doping, and their luminescence sensing properties. <i>Dalton Transactions</i> , 2019, 48, 13607-13613.	3.3	35
42	Two-dimensional correlation infrared spectroscopy of heat-induced esterification of cellulose with 1,2,3,4-butanetetracarboxylic acid in the presence of sodium hypophosphite. <i>Cellulose</i> , 2019, 26, 2759-2769.	4.9	22
43	An Anionic $\hat{\Delta}$ -diketiminato Oxoborane with a B=O Double Bond. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2635-2638.	2.0	6
44	Five new 3D transition MOFs based on 1-(3,5-dicarboxylatobenzyl)-3,5-pyrazole dicarboxylic acid displaying unique luminescence sensing towards Fe ³⁺ and magnetic properties. <i>Dalton Transactions</i> , 2019, 48, 7786-7793.	3.3	17
45	A Lead Carboxylate-Azolate Metal-Organic Framework Based on Hexanuclear Clusters: Luminescence and Accelerating the Thermal Decomposition of Ammonium Perchlorate. <i>ChemPlusChem</i> , 2019, 84, 289-294.	2.8	5
46	Thiol-Functionalized Pores via Post-Synthesis Modification in a Metal-Organic Framework with Selective Removal of Hg(II) in Water. <i>Inorganic Chemistry</i> , 2019, 58, 3409-3415.	4.0	109
47	Two new MOFs based on 5-((4-carboxypyridin-2-yl)oxy) isophthalic acid displaying unique selective CO ₂ gas adsorption and magnetic properties. <i>CrystEngComm</i> , 2019, 21, 7078-7084.	2.6	8
48	Nonenzymatic Glucose Sensing and Magnetic Property Based On the Composite Formed by Encapsulating Ag Nanoparticles in Cluster-Based Co-MOF. <i>Inorganic Chemistry</i> , 2019, 58, 16743-16751.	4.0	51
49	Luminescent and Magnetic Properties of Coordination Polymers Induced by Coordinating Modes of a Bis(oxamate) Ligand. <i>ChemPlusChem</i> , 2019, 84, 62-68.	2.8	13
50	Five new coordination polymers of s- and d-block metals: Structural diversities, magnetic properties and luminescence. <i>Journal of Solid State Chemistry</i> , 2019, 270, 516-523.	2.9	7
51	Exploring the hydrogen-bond structures in sodium alginate through two-dimensional correlation infrared spectroscopy. <i>Carbohydrate Polymers</i> , 2019, 205, 420-426.	10.2	82
52	Ge ^I -Ge ^I Coupling Reaction Induced by a Mixture of CoBr ₂ and a Seven-Membered N-Heterocyclic Carbene. <i>Inorganic Chemistry</i> , 2018, 57, 2969-2972.	4.0	12
53	Three new super water-stable lanthanide-organic frameworks for luminescence sensing and magnetic properties. <i>New Journal of Chemistry</i> , 2018, 42, 9221-9227.	2.8	10
54	Four new metal-organic frameworks based on diverse secondary building units: sensing and magnetic properties. <i>Dalton Transactions</i> , 2018, 47, 1682-1692.	3.3	98

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55	Tunable Emission and Selective Luminescence Sensing in a Series of Lanthanide Metal-Organic Frameworks with Uncoordinated Lewis Basic Triazolyl Sites. <i>Crystal Growth and Design</i> , 2018, 18, 2031-2039.	3.0	57
56	An Interpenetrated Pillar-Layered Metal-Organic Framework with Novel Clusters: Reversible Structural Transformation and Selective Gate-Opening Adsorption. <i>Crystal Growth and Design</i> , 2018, 18, 3044-3050.	3.0	25
57	Honeycomb Metal-Organic Framework with Lewis Acidic and Basic Bifunctional Sites: Selective Adsorption and CO ₂ Catalytic Fixation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10965-10973.	8.0	138
58	Functionalization of MOFs via a mixed-ligand strategy: enhanced CO ₂ uptake by pore surface modification. <i>Dalton Transactions</i> , 2018, 47, 5298-5303.	3.3	33
59	An Uncommon Carboxylate-Decorated Metal-Organic Framework with Selective Gas Adsorption and Catalytic Conversion of CO ₂ . <i>Chemistry - A European Journal</i> , 2018, 24, 865-871.	3.3	112
60	Rational construction of a stable Zn ₄ O-based MOF for highly efficient CO ₂ capture and conversion. <i>Chemical Communications</i> , 2018, 54, 456-459.	4.1	48
61	Stable Indium-Pyridylcarboxylate Framework: Selective Gas Capture and Sensing of Fe ³⁺ Ion in Water. <i>Inorganic Chemistry</i> , 2018, 57, 15262-15269.	4.0	53
62	Direct Evidence: Enhanced C ₂ H ₆ and C ₂ H ₄ Adsorption and Separation Performances by Introducing Open Nitrogen-Donor Sites in a MOF. <i>Inorganic Chemistry</i> , 2018, 57, 12417-12423.	4.0	34
63	Five transition metal coordination polymers driven by a semirigid trifunctional nicotinic acid ligand: selective adsorption and magnetic properties. <i>CrystEngComm</i> , 2018, 20, 5726-5734.	2.6	33
64	A new stable luminescent Cd(^{II}) metal-organic framework with fluorescent sensing and selective dye adsorption properties. <i>Dalton Transactions</i> , 2018, 47, 9466-9473.	3.3	65
65	Two new coordination polymers based on a pyridine-pyrazole bifunctional linker: Synthesis, structure and luminescent properties. <i>Inorganic Chemistry Communication</i> , 2018, 96, 128-132.	3.9	4
66	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. <i>Dalton Transactions</i> , 2017, 46, 2626-2634.	3.3	34
67	Porous MOF with Highly Efficient Selectivity and Chemical Conversion for CO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17969-17976.	8.0	173
68	Two metal-organic frameworks based on a flexible benzimidazole carboxylic acid ligand: selective gas sorption and luminescence. <i>Dalton Transactions</i> , 2017, 46, 15118-15123.	3.3	19
69	A new layer-stacked porous framework showing sorption selectivity for CO ₂ and luminescence. <i>Dalton Transactions</i> , 2017, 46, 11722-11727.	3.3	20
70	Construction of Highly Porous Pillared Metal-Organic Frameworks: Rational Synthesis, Structure, and Gas Sorption Properties. <i>Inorganic Chemistry</i> , 2017, 56, 9147-9155.	4.0	23
71	Ligand Configuration-Induced Manganese(II) Coordination Polymers: Syntheses, Crystal Structures, Sorption, and Magnetic Properties. <i>Inorganic Chemistry</i> , 2017, 56, 10090-10098.	4.0	22
72	Efficient light hydrocarbon separation and CO ₂ capture and conversion in a stable MOF with oxalamide-decorated polar tubes. <i>Chemical Communications</i> , 2017, 53, 12970-12973.	4.1	121

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73	Four New 3D Metal-Organic Frameworks Constructed by a V-shaped Tetracarboxylates Ligand: Selective CO ₂ Sorption and Luminescent Sensing. <i>Crystal Growth and Design</i> , 2017, 17, 6733-6740.	3.0	37
74	A Two-Coordinate Neutral Germylene Supported by a β -Diketiminato Ligand in the Radical State. <i>Organometallics</i> , 2017, 36, 2706-2709.	2.3	27
75	Luminescence Modulation, White Light Emission, and Energy Transfer in a Family of Lanthanide Metal-Organic Frameworks Based on a Planar π -Conjugated Ligand. <i>Crystal Growth and Design</i> , 2017, 17, 4217-4224.	3.0	82
76	Structural Diversity of Three Pyrazolyl-Carboxyl Bifunctional Ligand-Based Metal-Organic Frameworks: Luminescence and Magnetic Properties. <i>ChemPlusChem</i> , 2017, 82, 376-382.	2.8	6
77	Automatical encoding of button products based on visual recognition. , 2017, , .		0
78	Uncommon Pyrazoyl-Carboxyl Bifunctional Ligand-Based Microporous Lanthanide Systems: Sorption and Luminescent Sensing Properties. <i>Inorganic Chemistry</i> , 2016, 55, 3952-3959.	4.0	276
79	Structural Diversity of Cadmium(II) Coordination Polymers Induced by Tuning the Coordination Sites of Isomeric Ligands. <i>Inorganic Chemistry</i> , 2016, 55, 8871-8880.	4.0	43
80	Five New Cd(II) Complexes Induced by Reaction Conditions and Coordination Modes of 5-(1 <i>H</i> -Tetrazol-5-yl)isophthalic Acid Ligand: Structures and Luminescence. <i>Crystal Growth and Design</i> , 2016, 16, 5394-5402.	3.0	36
81	A Pb ²⁺ -based coordination polymer with 5-(1 <i>H</i> -tetrazol-5-yl)isophthalic acid ligand: structure and photoluminescence. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2573-2579.	2.2	6
82	Four new 3D metal-organic frameworks constructed by the asymmetrical pentacarboxylate: gas sorption behaviour and magnetic properties. <i>Dalton Transactions</i> , 2016, 45, 15473-15480.	3.3	29
83	Two Unusual Nanocage-Based Ln-MOFs with Triazole Sites: Highly Fluorescent Sensing for Fe ³⁺ and Cr ²⁺ and Selective CO ₂ Capture. <i>ChemPlusChem</i> , 2016, 81, 1299-1304.	2.8	133
84	A chiral metal-organic framework with polar channels: unique interweaving six-fold helices and high CO ₂ /CH ₄ separation. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1326-1331.	6.0	28
85	A Cationic MOF with High Uptake and Selectivity for CO ₂ due to Multiple CO ₂ -philic Sites. <i>Chemistry - A European Journal</i> , 2015, 21, 16525-16531.	3.3	72
86	Two Comparable Isostructural Microporous Metal-Organic Frameworks: Better Luminescent Sensor and Higher Adsorption Selectivity for the Fluorine-Decorated Framework. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5773-5780.	2.0	15
87	New Sesquiterpenoids and a Diterpenoid from <i>Alpinia oxyphylla</i> . <i>Molecules</i> , 2015, 20, 1551-1559.	3.8	18
88	A New Porous MOF with Two Uncommon Metal-Carboxylate-Pyrazolate Clusters and High CO ₂ /N ₂ Selectivity. <i>Inorganic Chemistry</i> , 2015, 54, 1841-1846.	4.0	71
89	Peculiar phenomena of structural transformations triggered from a nickel coordination polymer. <i>CrystEngComm</i> , 2015, 17, 1839-1847.	2.6	14
90	Highly selective luminescence sensing for Cu ²⁺ ions and selective CO ₂ capture in a doubly interpenetrated MOF with Lewis basic pyridyl sites. <i>Dalton Transactions</i> , 2015, 44, 4423-4427.	3.3	64

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91	Selective CO ₂ adsorption in a microporous metal-organic framework with suitable pore sizes and open metal sites. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 550-557.	6.0	26
92	Two Nanocage-Based Metal-Organic Frameworks with Mixed-Cluster SBUs and CO ₂ Sorption Selectivity. <i>Inorganic Chemistry</i> , 2015, 54, 8937-8942.	4.0	34
93	Structural diversity of five new bitriazole-based complexes: luminescence, sorption, and magnetic properties. <i>Dalton Transactions</i> , 2015, 44, 1110-1119.	3.3	69
94	New porous coordination polymers based on expanded pyridyl-dicarboxylate ligands and a paddle-wheel cluster. <i>CrystEngComm</i> , 2014, 16, 6325-6330.	2.6	25
95	Four uncommon nanocage-based Ln-MOFs: highly selective luminescent sensing for Cu ²⁺ ions and selective CO ₂ capture. <i>Chemical Communications</i> , 2014, 50, 8731.	4.1	245
96	Three new solvent-directed 3D lead(ii)-MOFs displaying the unique properties of luminescence and selective CO ₂ sorption. <i>Dalton Transactions</i> , 2013, 42, 13590.	3.3	57
97	Two New (3,6)-Connected Frameworks Based on an Unsymmetrical Tritopic Pyridyldicarboxylate Ligand and Co ₂ Dimer: Structures, Magnetic, and Sorption Properties. <i>Crystal Growth and Design</i> , 2013, 13, 701-707.	3.0	25
98	A polar tetrazolyl-carboxyl microporous Zn(ii)-MOF: sorption and luminescent properties. <i>Dalton Transactions</i> , 2013, 42, 3653.	3.3	29
99	Investigation on the prime factors influencing the formation of entangled metal-organic frameworks. <i>CrystEngComm</i> , 2013, 15, 2561.	2.6	131
100	Molecular braids in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2012, 41, 6992.	38.1	166
101	Dynamic porous coordination polymer based on 2D stacked layers exhibiting high sorption selectivity for CO ₂ . <i>Dalton Transactions</i> , 2012, 41, 3209.	3.3	24
102	A rod packing microporous metal-organic framework: unprecedented <i>ukv</i> topology, high sorption selectivity and affinity for CO ₂ . <i>Chemical Communications</i> , 2011, 47, 5464-5466.	4.1	152
103	Two new pH-controlled metal-organic frameworks based on polynuclear secondary building units with conformation-flexible cyclohexane-1,2,4,5-tetracarboxylate ligand. <i>Inorganica Chimica Acta</i> , 2011, 367, 127-134.	2.4	34
104	An octacobalt cluster based, (3,12)-connected, magnetic, porous coordination polymer. <i>Chemical Communications</i> , 2010, 46, 6311.	4.1	116
105	Effect of overexpression of transcription factors on the fermentation properties of <i>Saccharomyces cerevisiae</i> industrial strains. <i>Letters in Applied Microbiology</i> , 2009, 49, 14-19.	2.2	21
106	Two highly-connected, chiral, porous coordination polymers featuring novel heptanuclear metal carboxylate clusters. <i>Chemical Communications</i> , 2008, , 4019.	4.1	90
107	Porous Metal-Organic Framework Based on $\frac{1}{4}$ -oxo Tetrazinc Clusters: Sorption and Guest-Dependent Luminescent Properties. <i>Inorganic Chemistry</i> , 2008, 47, 1346-1351.	4.0	185