

Zhi-Liang Liu

List of Publications by Year in descending order

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104
papers

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87888

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4356
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#	ARTICLE	IF	CITATIONS
1	A luminescent lanthanide MOF for selectively and ultra-high sensitively detecting Pb ²⁺ ions in aqueous solution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10200-10205.	10.3	225
2	An ultrastable zinc(II)-organic framework as a recyclable multi-responsive luminescent sensor for Cr(III), Cr(VI) and 4-nitrophenol in the aqueous phase with high selectivity and sensitivity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20035-20043.	10.3	215
3	Controllable Synthesis of a Smart Multifunctional Nanoscale Metal-Organic Framework for Magnetic Resonance/Optical Imaging and Targeted Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3455-3462.	8.0	192
4	Ultrastable 1D Europium Complex for Simultaneous and Quantitative Sensing of Cr(III) and Cr(VI) Ions in Aqueous Solution with High Selectivity and Sensitivity. <i>Inorganic Chemistry</i> , 2017, 56, 4197-4205.	4.0	169
5	Fabrication of functional hollow microspheres constructed from MOF shells: Promising drug delivery systems with high loading capacity and targeted transport. <i>Scientific Reports</i> , 2016, 6, 37705.	3.3	117
6	Zinc(II)-organic framework as a multi-responsive photoluminescence sensor for efficient and recyclable detection of pesticide 2,6-dichloro-4-nitroaniline, Fe(III) and Cr(VI). <i>New Journal of Chemistry</i> , 2019, 43, 2353-2361.	2.8	113
7	A microporous metal-organic open framework containing uncoordinated carbonyl groups as postsynthetic modification sites for cation exchange and Tb ³⁺ sensing. <i>Chemical Communications</i> , 2013, 49, 6897.	4.1	112
8	Enhanced visible light photocatalytic activity in BiOCl/SnO ₂ : heterojunction of two wide band-gap semiconductors. <i>RSC Advances</i> , 2015, 5, 22740-22752.	3.6	107
9	Size and surface controllable metal-organic frameworks (MOFs) for fluorescence imaging and cancer therapy. <i>Nanoscale</i> , 2018, 10, 6205-6211.	5.6	103
10	Postsynthetic Metalation Metal-Organic Framework as a Fluorescent Probe for the Ultrasensitive and Reversible Detection of PO ₄ ³⁻ Ions. <i>Inorganic Chemistry</i> , 2018, 57, 10525-10532.	4.0	102
11	Fabrication of porous metal-organic frameworks via a mixed-ligand strategy for highly selective and efficient dye adsorption in aqueous solution. <i>CrystEngComm</i> , 2015, 17, 6037-6043.	2.6	100
12	A multi-chemosensor based on Zn-MOF: Ratio-dependent color transition detection of Hg(II) and highly sensitive sensor of Cr(VI). <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 164-172.	7.8	99
13	Fabrication of a Luminescence-Silent System Based on a Post-Synthetic Modification Cd-MOFs: A Highly Selective and Sensitive Turn-on Luminescent Probe for Ascorbic Acid Detection. <i>Inorganic Chemistry</i> , 2019, 58, 6167-6174.	4.0	90
14	A Discrete Dysprosium Trigonal Prism Showing Single-Molecule Magnet Behaviour. <i>Chemistry - A European Journal</i> , 2012, 18, 442-445.	3.3	80
15	Enhanced electrocatalytic nitrogen reduction reaction performance by interfacial engineering of MOF-based sulfides FeNi ₂ S ₄ /NiS hetero-interface. <i>Applied Catalysis B: Environmental</i> , 2021, 287, 119956.	20.2	75
16	A highly selective turn-on luminescent logic gates probe based on post-synthetic MOF for aspartic acid detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 91-95.	7.8	74
17	A luminescent terbium MOF containing uncoordinated carboxyl groups exhibits highly selective sensing for Fe ³⁺ ions. <i>RSC Advances</i> , 2014, 4, 55252-55255.	3.6	72
18	Utilizing 3d-4f Magnetic Interaction to Slow the Magnetic Relaxation of Heterometallic Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 4337-4344.	4.0	72

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19	A gadolinium MOF acting as a multi-responsive and highly selective luminescent sensor for detecting o-, m-, and p-nitrophenol and Fe ³⁺ ions in the aqueous phase. RSC Advances, 2016, 6, 61725-61731.	3.6	70
20	Construction of Metallosupramolecular Coordination Complexes: From Lanthanide Helicates to Octahedral Cages Showing Single-Molecule Magnet Behavior. Inorganic Chemistry, 2019, 58, 3167-3174.	4.0	69
21	Fabrication of a magnetic nanocomposite photocatalysts Fe ₃ O ₄ @ZIF-67 for degradation of dyes in water under visible light irradiation. Journal of Solid State Chemistry, 2017, 255, 150-156.	2.9	67
22	One-pot synthesis of hierarchical-pore metal-organic frameworks for drug delivery and fluorescent imaging. CrystEngComm, 2018, 20, 1087-1093.	2.6	67
23	Constructing Bi ₂ O ₃ /BiOCl heterojunction via a simple thermal annealing route for achieving enhanced photocatalytic activity and selectivity. Scientific Reports, 2016, 6, 28689.	3.3	64
24	Stable Europium-based Metal-Organic Frameworks for Naked-eye Ultrasensitive Detecting Fluoroquinolones Antibiotics. Inorganic Chemistry, 2021, 60, 5282-5289.	4.0	64
25	Two Locally Chiral Dysprosium Compounds with Salen-type Ligands That Show Slow Magnetic Relaxation Behavior. European Journal of Inorganic Chemistry, 2013, 2013, 1351-1357.	2.0	62
26	Waste control by waste: Fenton-like oxidation of phenol over Cu modified ZSM-5 from coal gangue. Science of the Total Environment, 2019, 683, 638-647.	8.0	59
27	Intriguing pH-modulated Luminescence Chameleon System based on Postsynthetic Modified Dual-emitting Eu ³⁺ @Mn-MOF and Its Application for Histidine Chemosensor. Inorganic Chemistry, 2020, 59, 6390-6397.	4.0	59
28	3D Ln ^{III} -MOFs: slow magnetic relaxation and highly sensitive luminescence detection of Fe ³⁺ and ketones. Dalton Transactions, 2018, 47, 8972-8982.	3.3	56
29	A stable europium metal-organic framework as a dual-functional luminescent sensor for quantitatively detecting temperature and humidity. Dalton Transactions, 2016, 45, 18450-18454.	3.3	54
30	Insight to unprecedented catalytic activity of double-nitrogen defective metal-free catalyst: Key role of coal gangue. Applied Catalysis B: Environmental, 2020, 263, 118316.	20.2	51
31	Synthesizing Bi ₂ O ₃ /BiOCl heterojunctions by partial conversion of BiOCl. Journal of Materials Science, 2017, 52, 2117-2130.	3.7	49
32	Synthesis of carbon doped Bi ₂ MoO ₆ for enhanced photocatalytic performance and tumor photodynamic therapy efficiency. Applied Surface Science, 2019, 465, 369-382.	6.1	48
33	Hollow structural metal-organic frameworks exhibit high drug loading capacity, targeted delivery and magnetic resonance/optical multimodal imaging. Dalton Transactions, 2019, 48, 17291-17297.	3.3	43
34	Eu ³⁺ doped bismuth metal-organic frameworks with ultrahigh fluorescence quantum yield and act as ratiometric turn-on sensor for histidine detection. Sensors and Actuators B: Chemical, 2021, 336, 129753.	7.8	43
35	A terbium metal-organic framework with stable luminescent emission in a wide pH range that acts as a quantitative detection material for nitroaromatics. RSC Advances, 2015, 5, 48574-48579.	3.6	41
36	Self-doping for visible light photocatalytic purposes: construction of SiO ₂ /SnO ₂ /SnO ₂ :Sn ²⁺ nanostructures with tunable optical and photocatalytic performance. RSC Advances, 2014, 4, 30820.	3.6	40

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37	A luminescent europium MOF containing Lewis basic pyridyl site for highly selective sensing of o-, m- and p-nitrophenol. <i>RSC Advances</i> , 2015, 5, 86614-86619.	3.6	39
38	A diablo-shaped Dy ₉ cluster: synthesis, crystal structure and magnetic properties. <i>Dalton Transactions</i> , 2011, 40, 6440.	3.3	38
39	Outstanding Drug-Loading/Release Capacity of Hollow Fe-Metal-Organic Framework-Based Microcapsules: A Potential Multifunctional Drug-Delivery Platform. <i>Inorganic Chemistry</i> , 2021, 60, 1664-1671.	4.0	37
40	A highly selective and sensitive fluorescent sensor based on Tb ³⁺ -functionalized MOFs to determine arginine in urine: a potential application for the diagnosis of cystinuria. <i>Analyst</i> , The, 2019, 144, 5875-5881.	3.5	32
41	A Promising White-Light-Emitting Material Constructed from Encapsulating Eu ³⁺ /Tb ³⁺ Hybrid Ions into a Robust Microporous Metal-Organic Framework. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2837-2842.	2.0	31
42	Halloysite derived 1D mesoporous tubular g-C ₃ N ₄ : Synergy of template effect and associated carbon for boosting photocatalytic performance toward tetracycline removal. <i>Applied Clay Science</i> , 2021, 213, 106238.	5.2	30
43	Halloysite Nanotubes as an Effective and Recyclable Adsorbent for Removal of Low-Concentration Antibiotics Ciprofloxacin. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 387.	2.0	29
44	Synthesis and Characterization of Modified BiOCl and Their Application in Adsorption of Low-Concentration Dyes from Aqueous Solution. <i>Nanoscale Research Letters</i> , 2018, 13, 69.	5.7	27
45	A metal-organic framework constructed by a viologen-derived ligand: photochromism and discernible detection of volatile amine vapors. <i>New Journal of Chemistry</i> , 2019, 43, 9032-9038.	2.8	27
46	A water stable Eu(III)-organic framework as a recyclable multi-responsive luminescent sensor for efficient detection of ip-aminophenol in simulated urine, and Mn ^{VII} and Cr ^{VI} anions in aqueous solutions. <i>Dalton Transactions</i> , 2021, 50, 5236-5243.	3.3	27
47	Natural kaolin derived stable SBA-15 as a support for Fe/BiOCl: a novel and efficient Fenton-like catalyst for the degradation of 2-nitrophenol. <i>RSC Advances</i> , 2015, 5, 36948-36956.	3.6	26
48	White-light emitting materials with tunable luminescence based on steady Eu(III) doping of Tb(III) metal-organic frameworks. <i>RSC Advances</i> , 2016, 6, 25689-25694.	3.6	26
49	A 3D porous luminescent terbium metal-organic framework for selective sensing of F ⁻ in aqueous solution. <i>Inorganic Chemistry Communication</i> , 2017, 80, 53-57.	3.9	26
50	Near-Infrared Emissive Lanthanide Metal-Organic Frameworks for Targeted Biological Imaging and pH-Controlled Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59164-59173.	8.0	25
51	Highly Selective and Sensitive Detection of PO ₄ ³⁻ Ions in Aqueous Solution by a Luminescent Terbium Metal-Organic Framework. <i>ACS Omega</i> , 2019, 4, 16378-16384.	3.5	24
52	A white-light-emitting lanthanide metal-organic framework for luminescence turn-off sensing of MnO ₄ ⁻ and turn-on sensing of folic acid and construction of a turn-on plus-system. <i>New Journal of Chemistry</i> , 2020, 44, 10239-10249.	2.8	24
53	An investigation into the magnetic interactions in a series of Dy ₂ single-molecule magnets. <i>Dalton Transactions</i> , 2020, 49, 10477-10485.	3.3	23
54	Homochiral crystallization of single-stranded helical coordination polymers: generated by the structure of auxiliary ligands or spontaneous symmetry breaking. <i>CrystEngComm</i> , 2013, 15, 5598.	2.6	22

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55	Water-stable Cd(μ -hydroxo)/Zn(μ -hydroxo) coordination polymers as recyclable luminescent sensors for detecting hippuric acid in simulated urine for indexing toluene exposure with high selectivity, sensitivity and fast response. <i>Dalton Transactions</i> , 2021, 50, 553-561.	3.3	21
56	Five new 2D and 3D coordination polymers based on two new multifunctional pyridyl-tricarboxylate ligands: hydrothermal syntheses, structural diversity, luminescent and magnetic properties. <i>RSC Advances</i> , 2017, 7, 19039-19049.	3.6	20
57	Significantly enhancing the lithium-ion conductivity of solid-state electrolytes via a strategy for fabricating hollow metal-organic frameworks. <i>Chemical Communications</i> , 2020, 56, 14629-14632.	4.1	20
58	Indium oxide/Halloysite composite as highly efficient adsorbent for tetracycline Removal: Key roles of hydroxyl groups and interfacial interaction. <i>Applied Surface Science</i> , 2021, 566, 150708.	6.1	20
59	Structural determinations and magnetic studies of two new binuclear complexes: azido-bridged Ni(II) dimer and di(μ -hydroxo)-bridged Cr(III) dimer. <i>Journal of Coordination Chemistry</i> , 2010, 63, 3441-3452.	2.2	19
60	Structure control and crystal-to-crystal transformation for two series of lanthanide-organic coordination polymers. <i>CrystEngComm</i> , 2013, 15, 8522.	2.6	19
61	Hypersensitive Self-Referencing Detection Traces of Water in Ethyl Alcohol by Dual-Emission Lanthanide Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1998-2003.	2.0	18
62	Enhanced photocatalytic activity of Bi ₂ O ₇ Cl ₂ preferentially oriented growth along [200] with various surfactants. <i>Journal of Materials Science</i> , 2018, 53, 14217-14230.	3.7	17
63	Significantly Enhancing the Lithium Ionic Conductivity of Metal-Organic Frameworks via a Postsynthetic Modification Strategy. <i>Langmuir</i> , 2021, 37, 3922-3928.	3.5	17
64	Crystal structure and magnetic properties of two dinuclear iron(III) complexes with multidentate Schiff-base ligands. <i>Journal of Coordination Chemistry</i> , 2011, 64, 3531-3540.	2.2	16
65	In situ growth of metal-organic frameworks (MOFs) on the surface of other MOFs: a new strategy for constructing magnetic resonance/optical dual mode imaging materials. <i>Dalton Transactions</i> , 2017, 46, 13686-13689.	3.3	16
66	Eu(III)-organic framework as a multi-responsive photoluminescence sensor for efficient detection of 1-naphthol, Fe ³⁺ and MnO ₄ ²⁻ in water. <i>Inorganica Chimica Acta</i> , 2020, 511, 119843.	2.4	16
67	Zinc(II) and Nickel(II) Complexes Based on Schiff Base Ligands: Synthesis, Crystal Structure, Luminescent and Magnetic Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 462-468.	1.2	15
68	A chemically stable europium metal-organic framework for bifunctional chemical sensor and recyclable on-off-on vapor response. <i>Journal of Solid State Chemistry</i> , 2017, 251, 243-247.	2.9	14
69	Mannitol-assisted synthesis of ultrathin Bi ₂ MoO ₆ architectures: excellent selective adsorption and photocatalytic performance. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	13
70	Unprecedented catalytic activity of coal gangue toward environmental remediation: Key role of hydroxyl groups. <i>Chemical Engineering Journal</i> , 2020, 380, 122432.	12.7	13
71	Proton conduction studies on four porous and nonporous coordination polymers with different acidities and water uptake. <i>CrystEngComm</i> , 2020, 22, 6935-6946.	2.6	13
72	Fabrication of a turn-on-type enantioselective fluorescence sensor via a modified achiral MOF: applications for synchronous detection of phenylalanine enantiomers. <i>Analyst</i> , 2021, 146, 937-942.	3.5	12

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73	Metal-organic framework-encapsulated nanoparticles for synergetic chemo/chemodynamic therapy with targeted H ₂ O ₂ self-supply. Dalton Transactions, 2021, 50, 15870-15877.	3.3	12
74	A series of [NaMn ^{III} ₃ Mn ^{II}] clusters constructed using a multidentate Schiff-base ligand and decorated with different auxiliary ligands. New Journal of Chemistry, 2014, 38, 545-551.	2.8	11
75	Comparative study on sandwich-structured SiO ₂ @Ag@SnO ₂ and inverse SiO ₂ @SnO ₂ @Ag: key roles of shell ordering and interfacial contact in modulating the photocatalytic properties. RSC Advances, 2015, 5, 81059-81068.	3.6	11
76	Novel manganese and cobalt 2D polymers containing alternating chains with mixed azide and carboxylate bridges: crystal structure and magnetic properties. RSC Advances, 2016, 6, 72326-72332.	3.6	11
77	A multi-stimuli-responsive metalhydrogel applied in chiral recognition, adsorption of poisonous anions, and construction of various chiral metal-organic frameworks. Chemical Communications, 2019, 55, 14178-14181.	4.1	11
78	Two new carboxylate-oxygen bridged trinuclear M(II) (MMn and Co) compounds with zwitterionic dicarboxylate ligands: crystal structures and magnetism. Inorganic Chemistry Communication, 2015, 58, 67-70.	3.9	10
79	Steering photoinduced charge kinetics via anionic group doping in Bi ₂ MoO ₆ for efficient photocatalytic removal of water organic pollutants. RSC Advances, 2017, 7, 35883-35896.	3.6	10
80	A pair of enantiomeric trinuclear nickel (II) clusters based on chiral Schiff-base: Synthesis, structures, circular dichroism and magnetic properties. Inorganic Chemistry Communication, 2017, 86, 281-284.	3.9	10
81	Controlled synthesis of MOFs@MOFs core-shell structure for photodynamic therapy and magnetic resonance imaging. Materials Letters, 2019, 237, 197-199.	2.6	10
82	Effective enhancement of capacitive performance by the facile exfoliation of bulk metal-organic frameworks into 2D-functionalized nanosheets. Nanoscale, 2021, 13, 13273-13284.	5.6	10
83	A pair of homochiral trinuclear Zn(ii) clusters exhibiting unusual ferroelectric behaviour at high temperature. CrystEngComm, 2019, 21, 2355-2361.	2.6	8
84	Crystal structures and the ferroelectric properties of homochiral metal-organic frameworks constructed from a single chiral ligand. Dalton Transactions, 2020, 49, 10402-10406.	3.3	8
85	A valuable strategy to improve ferroelectric performance significantly via metallic ion doping in the lattice nodes of metal-organic frameworks. Chemical Communications, 2021, 57, 2515-2518.	4.1	8
86	Surface lattice oxygen mobility inspired peroxy monosulfate activation over Mn ₂ O ₃ exposing different crystal faces toward bisphenol A degradation. Chemical Engineering Journal, 2022, 450, 138147.	12.7	8
87	Syntheses, Crystal Structures, and Magnetic Properties of $\frac{1}{4}\text{O}/\frac{1}{4}\text{Cl}$ Bridged Dinuclear Manganese(II) and Copper(II) Complexes with Schiff base Ligand HL [HL = 2-(benzothiazol-2-ylhydrazonomethyl)-6-methoxyphenol]. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 2300-2305.	1.2	7
88	Synthesis, characterization, and enhanced luminescence of CaWO ₄ :Eu ³⁺ /SBA-15 composites. Journal of Materials Science, 2012, 47, 6305-6314.	3.7	7
89	Metallo-supramolecular grid-type architectures for highly and selectively efficient adsorption of dyes in water. RSC Advances, 2015, 5, 43334-43337.	3.6	7
90	Construction and crystal structure of a pair of tetranuclear Zn(II) chiral clusters that exhibit ferroelectric behavior under a higher frequency electric field at room temperature. Polyhedron, 2017, 137, 217-221.	2.2	7

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91	Structure engineering of lanthanide functionalized metal-organic frameworks: A versatile tool for the early diagnosis of pheochromocytomas and paragangliomas. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120263.	3.9	7
92	Post-synthetic modification within MOFs: a valuable strategy for modulating their ferroelectric performance. <i>CrystEngComm</i> , 2022, 24, 724-737.	2.6	7
93	Multicomponent TiO ₂ /Ag/Cu ₇ S ₄ @Se Heterostructures Constructed by an Interface Engineering Strategy for Promoting the Electrocatalytic Nitrogen Reduction Reaction Performance. <i>Inorganic Chemistry</i> , 2022, 61, 7165-7172.	4.0	7
94	Cu, Ag-containing systems based on coal gangue as catalysts for highly efficient antibiotics removal via persulfate activation under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105016.	6.7	6
95	A Novel Luminescent Metal-Organic Framework as a Remarkable Sensor for Detecting Aristolochic Acids in Biological Fluids. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1695-1700.	2.0	6
96	A new cobalt coordination framework based on trinuclear Co(II)-tetrazolate bridges and a terpyridine tetrazolate ligand: Synthesis and magnetism. <i>Inorganic Chemistry Communication</i> , 2019, 107, 107465.	3.9	5
97	An unusual high-frequency ferroelectric obtained via the post-synthetic modification of a metal-organic framework. <i>Dalton Transactions</i> , 2020, 49, 10895-10900.	3.3	5
98	Significant improvement of the lithium-ion conductivity of solid-state electrolytes by fabricating large pore volume hollow ZIF-8. <i>Dalton Transactions</i> , 2021, 50, 13877-13882.	3.3	5
99	Efficient improvement of the lithium ionic conductivity for a polymer electrolyte <i>via</i> introducing porous metal-organic frameworks. <i>Chemical Communications</i> , 2022, 58, 6717-6720.	4.1	4
100	A novel lithium-impregnated hollow MOF-based electrolyte realizing an optimum balance between ionic conductivity and the transference number in solid-like batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14020-14027.	10.3	4
101	Zinc(II) and Cadmium(II) Complexes Based on 4,5-Di(4-carboxyphenyl)phthalic Acid Ligand: Synthesis, Crystal Structure, and Luminescent Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 1782-1788.	1.2	3
102	An unusual homospin Co ^{II} ferrimagnetic single-chain magnet with large hysteresis. <i>CrystEngComm</i> , 2019, 21, 6958-6963.	2.6	3
103	Three New Metal-Organic Polymers Based on Flexible 3-(4-(Carboxymethoxy) Phenyl) Propanoic Acid: Crystal Structures, Luminescent and Magnetic Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 1347-1353.	3.7	2
104	Modulating the ferroelectric performance by altering halogen anions in the crystals of tetranuclear copper-clusters. <i>New Journal of Chemistry</i> , 2021, 45, 12091-12096.	2.8	1