

# Jian Wang

## List of Publications by Year in descending order

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55  
papers

3,502  
citations

136950

32  
h-index

155660

55  
g-index

55  
all docs

55  
docs citations

55  
times ranked

4513  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoactive Chiral Metal-Organic Frameworks for Light-Driven Asymmetric $\alpha$ -Alkylation of Aldehydes. <i>Journal of the American Chemical Society</i> , 2012, 134, 14991-14999.	13.7	410
2	Metal-Organic Framework Based upon the Synergy of a Brønsted Acid Framework and Lewis Acid Centers as a Highly Efficient Heterogeneous Catalyst for Fixed-Bed Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 4243-4248.	13.7	242
3	An Amide-Containing Metal-Organic Tetrahedron Responding to a Spin-Trapping Reaction in a Fluorescent Enhancement Manner for Biological Imaging of NO in Living Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 12402-12405.	13.7	214
4	Multifunctional Luminescent Eu(III)-Based Metal-Organic Framework for Sensing Methanol and Detection and Adsorption of Fe(III) Ions in Aqueous Solution. <i>Inorganic Chemistry</i> , 2016, 55, 12660-12668.	4.0	209
5	Luminescent Metal-Organic Frameworks for Selectively Sensing Nitric Oxide in an Aqueous Solution and in Living Cells. <i>Advanced Functional Materials</i> , 2012, 22, 1698-1703.	14.9	198
6	Luminescent Sensing and Catalytic Performances of a Multifunctional Lanthanide-Organic Framework Comprising a Triphenylamine Moiety. <i>Advanced Functional Materials</i> , 2011, 21, 2788-2794.	14.9	163
7	Process-Tracing Study on the Postassembly Modification of Highly Stable Zirconium Metal-Organic Cages. <i>Journal of the American Chemical Society</i> , 2018, 140, 6231-6234.	13.7	159
8	Cadmium-Based Metal-Organic Framework as a Highly Selective and Sensitive Ratiometric Luminescent Sensor for Mercury(II). <i>Inorganic Chemistry</i> , 2015, 54, 11046-11048.	4.0	147
9	Structural and Catalytic Performance of a Polyoxometalate-Based Metal-Organic Framework Having a Lanthanide Nanocage as a Secondary Building Block. <i>Inorganic Chemistry</i> , 2010, 49, 1280-1282.	4.0	97
10	Carbon dioxide capture and efficient fixation in a dynamic porous coordination polymer. <i>Nature Communications</i> , 2019, 10, 4362.	12.8	91
11	An electron-donating strategy to guide the construction of MOF photocatalysts toward co-catalyst-free highly efficient photocatalytic $H_2$ evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24180-24185.	10.3	90
12	A cadmium(II)-based metal-organic framework for selective trace detection of nitroaniline isomers and photocatalytic degradation of methylene blue in neutral aqueous solution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16349-16355.	10.3	85
13	Dansyl-based fluorescent chemosensors for selective responses of Cr(III). <i>New Journal of Chemistry</i> , 2009, 33, 653-658.	2.8	77
14	A Highly Chemically Stable Metal-Organic Framework as a Luminescent Probe for the Regenerable Ratiometric Sensing of pH. <i>Chemistry - A European Journal</i> , 2016, 22, 13023-13027.	3.3	71
15	Cerium-Based $M_4L_4$ Tetrahedra as Molecular Flasks for Selective Reaction Prompting and Luminescent Reaction Tracing. <i>Chemistry - A European Journal</i> , 2014, 20, 2224-2231.	3.3	69
16	Luminescent metal-organic frameworks as chemical sensors based on a "mechanism" response: a review. <i>Dalton Transactions</i> , 2021, 50, 3429-3449.	3.3	68
17	A copper(II) rhodamine complex with a tripodal ligand as a highly selective fluorescence imaging agent for nitric oxide. <i>Chemical Communications</i> , 2011, 47, 11507.	4.1	64
18	Hybrid MOF-808-Tb nanospheres for highly sensitive and selective detection of acetone vapor and $Fe^{3+}$ in aqueous solution. <i>Chemical Communications</i> , 2019, 55, 4727-4730.	4.1	61

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19	Aldehyde-functionalized metal-organic frameworks for selective sensing of homocysteine over Cys, GSH and other natural amino acids. <i>Chemical Communications</i> , 2018, 54, 1004-1007.	4.1	55
20	A photoactive basket-like metal-organic tetragon worked as an enzymatic molecular flask for light driven H <sub>2</sub> production. <i>Chemical Communications</i> , 2013, 49, 627-629.	4.1	52
21	Post-imparting Brønsted acidity into an amino-functionalized MOF as a bifunctional luminescent turn-ON sensor for the detection of aluminum ions and lysine. <i>Dalton Transactions</i> , 2019, 48, 13834-13840.	3.3	50
22	Coordination-driven nanosized lanthanide -Molecular Lanterns™ as luminescent chemosensors for the selective sensing of magnesium ions. <i>Dalton Transactions</i> , 2014, 43, 335-343.	3.3	49
23	Post-modification of a MOF through a fluorescent-labeling technology for the selective sensing and adsorption of Ag <sup>+</sup> in aqueous solution. <i>Dalton Transactions</i> , 2012, 41, 10153.	3.3	48
24	Photoactive Metal-Organic Framework and Its Film for Light-Driven Hydrogen Production and Carbon Dioxide Reduction. <i>Inorganic Chemistry</i> , 2016, 55, 8153-8159.	4.0	48
25	Highly efficient photocatalytic hydrogen production from pure water via a photoactive metal-organic framework and its PDMS@MOF. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7833-7838.	10.3	46
26	Cobalt-containing covalent organic frameworks for visible light-driven hydrogen evolution. <i>Science China Chemistry</i> , 2020, 63, 192-197.	8.2	45
27	A europium(III)-based metal-organic framework as a naked-eye and fast response luminescence sensor for acetone and ferric iron. <i>New Journal of Chemistry</i> , 2016, 40, 8600-8606.	2.8	42
28	A squaramide-based metal-organic framework as a luminescent sensor for the detection of lactose in aqueous solution and in milk. <i>Chemical Communications</i> , 2018, 54, 9131-9134.	4.1	40
29	Hydrazone-based covalent organic frameworks for Lewis acid catalysis. <i>Dalton Transactions</i> , 2018, 47, 13824-13829.	3.3	39
30	Fluorescent differentiation and quantificational detection of free tryptophan in serum within a confined metal-organic tetrahedron. <i>Chemical Communications</i> , 2012, 48, 11880.	4.1	38
31	A metal-organic framework with a 9-phenylcarbazole moiety as a fluorescent tag for picric acid explosive detection: collaboration of electron transfer, hydrogen bonding and size matching. <i>RSC Advances</i> , 2014, 4, 47357-47360.	3.6	36
32	Lanthanide-Based Metal-Organic Frameworks Containing -V-Shaped-Tetracarboxylate Ligands: Synthesis, Crystal Structures, -Naked-Eye-Luminescent Detection, and Catalytic Properties. <i>Inorganic Chemistry</i> , 2020, 59, 264-273.	4.0	36
33	Dimensional Impact of Metal-Organic Frameworks in Catalyzing Photoinduced Hydrogen Evolution and Cyanosilylation Reactions. <i>ACS Applied Energy Materials</i> , 2019, 2, 298-304.	5.1	35
34	Cobalt(II)-Based Metal-Organic Framework as Bifunctional Materials for Ag(I) Detection and Proton Reduction Catalysis for Hydrogen Production. <i>Inorganic Chemistry</i> , 2019, 58, 924-931.	4.0	33
35	Highly Efficient Visible-Light-Driven H <sub>2</sub> Production via an Eosin Y-Based Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2018, 57, 7495-7498.	4.0	32
36	Photoactive metal-organic framework as a bifunctional material for 4-hydroxy-4-nitrobiphenyl detection and photodegradation of methylene blue. <i>Dalton Transactions</i> , 2018, 47, 16551-16557.	3.3	30

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37	Cluster nuclearity control and modulated hydrothermal synthesis of functionalized Zr <sub>12</sub> metal-organic frameworks. Dalton Transactions, 2019, 48, 7069-7073.	3.3	29
38	Amide-containing luminescent metal-organic complexes as bifunctional materials for selective sensing of amino acids and reaction prompting. RSC Advances, 2016, 6, 27944-27951.	3.6	26
39	Luminescent Metal-Organic Frameworks for the Detection and Discrimination of <i>o</i> -Xylene from Xylene Isomers. Inorganic Chemistry, 2018, 57, 13631-13639.	4.0	25
40	A newly-constructed hydrolytically stable Co(II) coordination polymer showing dual responsive fluorescence sensing of pH and Cu <sup>2+</sup> . CrystEngComm, 2021, 23, 4370-4381.	2.6	24
41	A bi-metallic MOF catalyst <i>via</i> sensitive detection & adsorption of Fe <sup>3+</sup> ions for size-selective reaction prompting. Dalton Transactions, 2018, 47, 9267-9273.	3.3	19
42	Post-synthetic modification of a Tb-based metal-organic framework for highly selective and sensitive detection of metal ions in aqueous solution. New Journal of Chemistry, 2019, 43, 10232-10236.	2.8	13
43	Metal-organic frameworks containing xanthene dyes for photocatalytic applications. Dalton Transactions, 2020, 49, 17520-17526.	3.3	13
44	A novel dual-emitting luminescent metal-organic framework for naked-eye and microgram detection of picric acid. Dyes and Pigments, 2018, 150, 301-305.	3.7	11
45	Metal-Organic Cyclohelicates as Optical Receptors for Glutathione: Syntheses, Structures, and Host-Guest Behaviors. Chemistry - an Asian Journal, 2011, 6, 1225-1233.	3.3	9
46	Amino and triazole-containing metal-organic frameworks for highly efficient CO <sub>2</sub> fixation. Chemical Communications, 2021, 57, 10803-10806.	4.1	9
47	A nanoporous metal-organic framework as a renewable size-selective hydrogen-bonding catalyst in water. Dalton Transactions, 2019, 48, 11855-11861.	3.3	8
48	A visible-light responsive metal-organic framework as an eco-friendly photocatalyst under ambient air at room temperature. Inorganic Chemistry Frontiers, 2020, 7, 3541-3547.	6.0	8
49	A Two-Fold Interpenetrated Dual-Emitting Luminescent Metal-Organic Framework as a Ratiometric Sensor for Chromium(III). Inorganic Chemistry, 2021, 60, 16803-16809.	4.0	8
50	A copper-based metal-organic framework for ratiometric detection of hydrogen sulfide with high sensitivity and fast response. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 243, 118794.	3.9	7
51	Synthesis of a bimetallic metal-organic framework catalyst <i>via</i> selective detection and adsorption of Fe <sup>3+</sup> for enhanced bio-based catalysis. Inorganic Chemistry Frontiers, 2021, 8, 4998-5005.	6.0	7
52	Two New Hybrid Architectures Based on Polyoxometaloborates and Imidazole Fragments. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 2016-2021.	1.2	6
53	DHPA-Containing Cobalt-Based Redox Metal-Organic Cyclohelicates as Enzymatic Molecular Flasks for Light-Driven H <sub>2</sub> Production. Scientific Reports, 2017, 7, 14347.	3.3	6
54	Triphenylamine-containing imine-linked porous organic network for luminescent detection and adsorption of Cr(VI) in water. Dalton Transactions, 2022, 51, 10351-10356.	3.3	3

#	ARTICLE	IF	CITATIONS
55	Recent progress in fluorescent metal-organic frameworks for metal ion detection. Scientia Sinica Chimica, 2022, 52, 1005-1019.	0.4	2