

# Jun He

## List of Publications by Year in descending order

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90  
papers

3,383  
citations

136740

32  
h-index

149479

56  
g-index

92  
all docs

92  
docs citations

92  
times ranked

4791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous Field-Effect Transistors Based on a Semiconductive Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 1360-1363.	6.6	374
2	High Efficiency Nondoped Deep-Blue Organic Light Emitting Devices Based on Imidazole- $\pi$ -triphenylamine Derivatives. <i>Chemistry of Materials</i> , 2012, 24, 61-70.	3.2	313
3	Thioether Side Chains Improve the Stability, Fluorescence, and Metal Uptake of a Metal-Organic Framework. <i>Chemistry of Materials</i> , 2011, 23, 2940-2947.	3.2	145
4	White Light Emission and Second Harmonic Generation from Secondary Group Participation (SGP) in a Coordination Network. <i>Journal of the American Chemical Society</i> , 2012, 134, 1553-1559.	6.6	142
5	Design and solvothermal synthesis of luminescent copper(i)-pyrazolate coordination oligomer and polymer frameworks. <i>Chemical Communications</i> , 2006, , 2845.	2.2	132
6	Convenient Detection of Pd(II) by a Metal-Organic Framework with Sulfur and Olefin Functions. <i>Journal of the American Chemical Society</i> , 2013, 135, 7807-7810.	6.6	113
7	In-Situ Intermolecular Interaction in Composite Polymer Electrolyte for Ultralong Life Quasi-Solid-State Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12116-12123.	7.2	97
8	Synthesis of nitrogen-doped KNbO <sub>3</sub> nanocubes with high photocatalytic activity for water splitting and degradation of organic pollutants under visible light. <i>Chemical Engineering Journal</i> , 2013, 226, 123-130.	6.6	86
9	A reaction-based near-infrared fluorescent sensor for Cu <sup>2+</sup> detection in aqueous buffer and its application in living cells and tissues imaging. <i>Biosensors and Bioelectronics</i> , 2017, 94, 24-29.	5.3	77
10	Novel Thermochromism Relating to Supramolecular Cuprophilic Interaction: Design, Synthesis, and Luminescence of Copper(I) Pyrazolate Trimer and Polymer. <i>Inorganic Chemistry</i> , 2008, 47, 3471-3473.	1.9	75
11	Second Ligand-Directed Assembly of Photoluminescent Zn(II) Coordination Frameworks. <i>Crystal Growth and Design</i> , 2007, 7, 1508-1513.	1.4	74
12	Halogen-C <sub>2</sub> H <sub>2</sub> Binding in Ultramicroporous Metal-Organic Frameworks (MOFs) for Benchmark C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation Selectivity. <i>Chemistry - A European Journal</i> , 2020, 26, 4923-4929.	1.7	72
13	Novel Synthesis of Birnessite-Type MnO <sub>2</sub> Nanostructure for Water Treatment and Electrochemical Capacitor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 9586-9593.	1.8	64
14	Multifunctional Free-Standing Membrane from the Self-assembly of Ultralong MnO <sub>2</sub> Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7458-7464.	4.0	63
15	Manganese oxides with different crystalline structures: Facile hydrothermal synthesis and catalytic activities. <i>Materials Letters</i> , 2012, 86, 18-20.	1.3	61
16	Construction of an alkaline phosphatase-specific two-photon probe and its imaging application in living cells and tissues. <i>Biomaterials</i> , 2017, 140, 220-229.	5.7	57
17	Conductive Metal-Organic Frameworks: Mechanisms, Design Strategies and Recent Advances. <i>Topics in Current Chemistry</i> , 2020, 378, 27.	3.0	57
18	Building thiol and metal-thiolate functions into coordination nets: Clues from a simple molecule. <i>Journal of Solid State Chemistry</i> , 2009, 182, 1821-1826.	1.4	54

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19	Ultra-sensitive fluorescent probes for hypochlorite acid detection and exogenous/endogenous imaging of living cells. <i>Chemical Communications</i> , 2018, 54, 7967-7970.	2.2	50
20	Mixed-Valence Cu <sub>2</sub> Cl <sub>2</sub> Cluster Builds up a 3D Metal-Organic Framework with Paramagnetic and Thermochromic Characteristics. <i>Inorganic Chemistry</i> , 2008, 47, 7948-7950.	1.9	49
21	Metalation Triggers Single Crystalline Order in a Porous Solid. <i>Journal of the American Chemical Society</i> , 2016, 138, 14852-14855.	6.6	48
22	In situ production of silver nanoparticles on an aldehyde-equipped conjugated porous polymer and subsequent heterogeneous reduction of aromatic nitro groups at room temperature. <i>Chemical Communications</i> , 2015, 51, 12197-12200.	2.2	45
23	A semiconducting gyroidal metal-sulfur framework for chemiresistive sensing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16139-16143.	5.2	44
24	Room-temperature acetylene hydration by a Hg(II)-laced metal-organic framework. <i>Chemical Communications</i> , 2015, 51, 10941-10944.	2.2	43
25	Improving stability against desolvation and mercury removal performance of Zr(IV)-carboxylate frameworks by using bulky sulfur functions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1648-1654.	5.2	43
26	An ultra-sensitive and ratiometric fluorescent probe based on the DTBET process for Hg <sup>2+</sup> detection and imaging applications. <i>Analyst</i> , 2019, 144, 1353-1360.	1.7	43
27	Conductive MOFs based on Thiol-functionalized Linkers: Challenges, Opportunities, and Recent Advances. <i>Coordination Chemistry Reviews</i> , 2022, 450, 214235.	9.5	42
28	Immobilization of Volatile and Corrosive Iodine Monochloride (ICl) and I <sub>2</sub> Reagents in a Stable Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2014, 53, 6837-6843.	1.9	39
29	A fast-response fluorescent probe for hypochlorous acid detection and its application in exogenous and endogenous HOCl imaging of living cells. <i>Chemical Communications</i> , 2017, 53, 12349-12352.	2.2	37
30	An ultra-sensitive ratiometric fluorescent probe for hypochlorous acid detection by the synergistic effect of AIE and TBET and its application of detecting exogenous/endogenous HOCl in living cells. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5125-5131.	2.9	36
31	A Boiling-Water-Stable, Tunable White-Emitting Metal-Organic Framework from Soft-Imprint Synthesis. <i>Chemistry - A European Journal</i> , 2016, 22, 1597-1601.	1.7	33
32	Energy transfer properties and temperature-dependent luminescence of Ca <sub>14</sub> Al <sub>10</sub> Zn <sub>6</sub> O <sub>35</sub> : Dy <sup>3+</sup> , Mn <sup>4+</sup> phosphors. <i>Journal of Materials Science</i> , 2016, 51, 4201-4212.	1.7	32
33	A Thiol-Functionalized UiO-67-Type Porous Single Crystal: Filling in the Synthetic Gap. <i>Inorganic Chemistry</i> , 2019, 58, 1462-1468.	1.9	31
34	Dual-Redox Sites Guarantee High-Capacity Sodium Storage in Two-Dimension Conjugated Metal-Organic Frameworks. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	31
35	A nanoporous graphene analog for superfast heavy metal removal and continuous-flow visible-light photoredox catalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20180-20187.	5.2	30
36	Highly Crystalline Flower-Like Covalent-Organic Frameworks Enable Highly Stable Zinc Metal Anodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 3715-3723.	2.5	29

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37	Separator modified by Co-porphyrin based Zr-MOF@CNT composite enabling efficient polysulfides catalytic conversion for advanced lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2021, 398, 139317.	2.6	26
38	Synthesis of g-C <sub>3</sub> N <sub>4</sub> /Silica Gels for White-Light-Emitting Devices. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600258.	1.2	25
39	Centripetal molecules as multifunctional building blocks for coordination networks. <i>Chemical Communications</i> , 2007, , 4779.	2.2	24
40	Coordination Networks from Cu Cations and Tetrakis(methylthio)benzenedicarboxylic Acid: Tunable Bonding Patterns and Selective Sensing for NH <sub>3</sub> Gas. <i>Inorganic Chemistry</i> , 2010, 49, 10191-10198.	1.9	23
41	MnO <sub>2</sub> Nanosheet-Assisted Hydrothermal Synthesis of $\beta$ -MnO <sub>2</sub> Branchy Structures. <i>Materials Letters</i> , 2012, 79, 288-291.	1.3	23
42	Solid structure and photoluminescence of zinc(II) multiplex with heptadentate salicylideneamine as primary ligand. <i>Inorganic Chemistry Communication</i> , 2006, 9, 205-207.	1.8	22
43	Effects of Accelerator Alkyl Chain Length on the Microvia Filling Performance in Copper Superconformal Electroplating. <i>Journal of the Electrochemical Society</i> , 2019, 166, D104-D112.	1.3	22
44	Synthesis, characterization and biological evaluation of ruthenium(II) complexes [Ru(dtzp)(dppz)Cl] + and [Ru(dtzp)(dppz)CH <sub>3</sub> CN] <sup>2+</sup> for photodynamic therapy. <i>Dyes and Pigments</i> , 2017, 136, 416-426.	2.0	21
45	Real-Time Monitoring of Self-Aggregation of $\beta$ -Amyloid by a Fluorescent Probe Based on Ruthenium Complex. <i>Analytical Chemistry</i> , 2020, 92, 2953-2960.	3.2	21
46	Functional shakeup of metal-organic frameworks: the rise of the sidekick. <i>CrystEngComm</i> , 2015, 17, 9254-9263.	1.3	20
47	In-situ Intermolecular Interaction in Composite Polymer Electrolyte for Ultralong Life Quasi-Solid-State Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 12223-12230.	1.6	20
48	Dramatic improvement of stability by <i>in situ</i> linker cyclization of a metal-organic framework. <i>Chemical Communications</i> , 2018, 54, 9470-9473.	2.2	19
49	Dense Alkyne Arrays of a Zr(IV) Metal-Organic Framework Absorb Co <sub>2</sub> (CO) <sub>8</sub> for Functionalization. <i>Inorganic Chemistry</i> , 2020, 59, 5626-5631.	1.9	18
50	Dense Dithiolene Units on Metal-Organic Frameworks for Mercury Removal and Superprotonic Conduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 1070-1076.	4.0	17
51	A Stable 2D Zr(IV)-Based Metal-Organic Framework (USTS-7) for Selective Sensing of Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup> in Aqueous Solution. <i>Inorganic Chemistry</i> , 2020, 59, 17884-17888.	1.9	15
52	1D tubular and 2D roof-like coordination polymers based on [Zn(Pdc)] helices: Syntheses, structures and photoluminescence. <i>Inorganic Chemistry Communication</i> , 2008, 11, 1094-1096.	1.8	14
53	CuCN Pillars Induce Face-to-Face $\pi$ -Overlap of Anthracene-Based Thioether Molecules within a Hybrid Coordination Network. <i>Crystal Growth and Design</i> , 2008, 8, 1468-1470.	1.4	14
54	Well-ordered organic-inorganic hybrid layered manganese oxide nanocomposites with excellent decolorization performance. <i>Journal of Solid State Chemistry</i> , 2013, 198, 371-378.	1.4	14

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55	Highly Polarizable Triiodide Anions ( $I_3^-$ ) as Cross-Linkers for Coordination Polymers: Closing the Semiconductive Band Gap. <i>Inorganic Chemistry</i> , 2015, 54, 6087-6089.	1.9	14
56	Sulfur Chemistry for Stable and Electroactive Metal-Organic Frameworks: The Crosslinking Story. <i>Chemistry - A European Journal</i> , 2019, 25, 8654-8662.	1.7	13
57	An air-stable anionic two-dimensional semiconducting metal-thiolate network and its exfoliation into ultrathin few-layer nanosheets. <i>Chemical Communications</i> , 2020, 56, 3645-3648.	2.2	13
58	Ruthenium stabilized on transition metal-on-transition metal oxide nanoparticles for naphthalene hydrogenation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15055-15063.	3.8	12
59	Enantiomerism, diastereomerism and thermochromism in two $Cu_7I_4$ cluster-based coordination polymers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 15136-15140.	2.7	12
60	A Bumper Crop of Boiling-Water-Stable Metal-Organic Frameworks from Controlled Linker Sulfuration. <i>Inorganic Chemistry</i> , 2020, 59, 7097-7102.	1.9	12
61	Linker Deficiency, Aromatic Ring Fusion, and Electrocatalysis in a Porous $Ni_8$ -Pyrazolate Network. <i>Inorganic Chemistry</i> , 2021, 60, 161-166.	1.9	12
62	Crystallinity after decarboxylation of a metal-carboxylate framework: indestructible porosity for catalysis. <i>Dalton Transactions</i> , 2020, 49, 11902-11910.	1.6	10
63	Conjugated crosslinks boost the conductivity and stability of a single crystalline metal-organic framework. <i>Chemical Communications</i> , 2021, 57, 187-190.	2.2	10
64	Interconnected $NiCo_2O_4$ nanosheet arrays grown on carbon cloth as a host, adsorber and catalyst for sulfur species enabling high-performance $Li-S$ batteries. <i>Nanoscale Advances</i> , 2021, 3, 1690-1698.	2.2	10
65	Metal-organic frameworks constructed from trivalent lanthanide nodes ( $Eu^{3+}$ , $Tb^{3+}$ , and $Dy^{3+}$ ) and thiophenethio-functionalized linker with photoluminescent response selective towards $Ag^+$ ions. <i>Dyes and Pigments</i> , 2022, 198, 109999.	2.0	10
66	Janus triple tripods build up a microporous manifold for $HgCl_2$ and $I_2$ uptake. <i>Chemical Communications</i> , 2019, 55, 5091-5094.	2.2	9
67	Electrical and magnetic properties of a radical-based $Co(II)$ coordination complex with C-H $\cdots$ and $I\cdots I$ supramolecular interactions. <i>Inorganic Chemistry Communication</i> , 2019, 103, 149-153.	1.8	9
68	Building Conjugated Donor-Acceptor Cross-Links into Metal-Organic Frameworks for Photo- and Electroactivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 19201-19209.	4.0	9
69	Bis-(sodium sulfoethyl)-disulfide: A Promising Accelerator for Super-conformal Copper Electrodeposition with Wide Operating Concentration Ranges. <i>Journal of the Electrochemical Society</i> , 2020, 167, 042508.	1.3	9
70	Enhanced stability and colorimetric detection on $Ag^+$ ions of a methylthio-functionalized $Zn$ metal-organic framework. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5088-5092.	2.7	9
71	Anionic hydrogen-bonded chains, coexisting with $Ni(II)$ complexes of polyamine-based ligands. <i>Inorganic Chemistry Communication</i> , 2006, 9, 326-328.	1.8	8
72	Thiol-Containing Metal-Organic Framework-Decorated Carbon Cloth as an Integrated Interlayer-Current Collector for Enhanced $Li-S$ Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 31942-31950.	4.0	8

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73	Beadwork and Network: Strings of Silver Ions Stitch Large- $\pi$ Pyrazolate Patches into a Two-dimensional Sheet. <i>Crystal Growth and Design</i> , 2018, 18, 3713-3718.	1.4	7
74	Highly enhanced hydrated proton conductivity by combination of post-synthetic oxidation and acidification in a zirconium-organic framework. <i>Journal of Solid State Chemistry</i> , 2020, 285, 121234.	1.4	7
75	Hydrated proton conduction and luminescence of a carboxylate and sulfonate-included lead(II) coordination polymer. <i>Journal of Solid State Chemistry</i> , 2020, 287, 121325.	1.4	7
76	Flexible side arms of ditopic linker as effective tools to boost proton conductivity of Ni <sup>II</sup> -pyrazolate metal-organic framework. <i>Chinese Chemical Letters</i> , 2022, 33, 3227-3230.	4.8	7
77	Anion-directed structures and luminescences of two Cu(I) coordination polymers based on bipyrazole. <i>Inorganic Chemistry Communication</i> , 2019, 101, 121-124.	1.8	6
78	Superprotonic conduction of intrinsically zwitterionic microporous polymers based on easy-to-make squaraine, croconaine and rhodizaine dyes. <i>Nanoscale Advances</i> , 2022, 4, 2922-2928.	2.2	6
79	Two homochiral crystals of anion-directed Cu(I) and Zn(II) helical coordination polymers. <i>Journal of Solid State Chemistry</i> , 2019, 277, 448-453.	1.4	5
80	Frontispiece: Sulfur Chemistry for Stable and Electroactive Metal-Organic Frameworks: The Crosslinking Story. <i>Chemistry - A European Journal</i> , 2019, 25, .	1.7	4
81	Symmetrically backfolded molecules emulating the self-similar features of a Sierpinski triangle. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 6032-6037.	1.5	4
82	Invisible Silver Guests Boost Order in a Framework That Cyclizes and Deposits Ag <sub>3</sub> Sb Nanodots. <i>Inorganic Chemistry</i> , 2021, 60, 5757-5763.	1.9	4
83	Construction and investigation of chiral and photoluminescent Metal-Organic framework based on Zn(II) ions and achiral methoxy-functionalized benzimidazolate linkers. <i>Inorganic Chemistry Communication</i> , 2021, 131, 108791.	1.8	4
84	A Ferrocene Metal-Organic Framework Solid for Fe-Loaded Carbon Matrices and Nanotubes: High-Yield Synthesis and Oxygen Reduction Electrocatalysis. <i>Inorganic Chemistry</i> , 2021, 60, 17315-17324.	1.9	4
85	Syntheses, structures and Br <sub>2</sub> uptake of Cu(I)-bipyrazole frameworks. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122458.	1.4	3
86	A Porous and Solution-Processable Molecular Crystal Stable at 200 $\text{\AA}^\circ\text{C}$ : The Surprising Donor-Acceptor Impact. <i>Crystal Growth and Design</i> , 2019, 19, 7411-7419.	1.4	2
87	Structure, Luminescent Sensing and Proton Conduction of a Boiling-Water-Stable Zn(II) Metal-Organic Framework. <i>Molecules</i> , 2021, 26, 5044.	1.7	2
88	Telltale diamagnetism at 50%K of a coordination polymer system. <i>Materials Research Letters</i> , 2022, 10, 496-500.	4.1	2
89	Isolation and studies of a thioether-functionalized pyrazole derived Cu(I)-based cyclic trinuclear complex and its coordination polymers with [Cu <sub>2</sub> I <sub>2</sub> ] and [BiBr <sub>3</sub> ] nodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10288-10294.	2.7	1
90	Synthesis of a Thiol Building Block for the Crystallization of a Semiconducting Gyroidal Metal-sulfur Framework. <i>Journal of Visualized Experiments</i> , 2018, .	0.2	0