Shuai Yuan

List of Publications by Year
in descending order

100 papers	12,724 citations	25034 57 h-index	32842 100 g-index
101 all docs	101 docs citations	101 times ranked	11199 citing authors

#	Article	IF	Citations
1	Enhancing the photothermal conversion of tetrathiafulvalene-based MOFs by redox doping and plasmon resonance. Chemical Science, 2022, 13, 1657-1664.	7.4	25
2	A silver-functionalized metalâ€“organic framework with effective antibacterial activity. New Journal of Chemistry, 2022, 46, 5922-5926.	2.8	7
3	Generation of Environmentally Persistent Free Radicals on Metalâ€“Organic Frameworks. Langmuir, 2022, 38, 3265-3275.	3.5	3
4	Redox-Active Covalent Organic Frameworks with Nickelâ€“Bis(dithiolene) Units as Guiding Layers for High-Performance Lithium Metal Batteries. Journal of the American Chemical Society, 2022, 144, 8267-8277.	13.7	42
5	Rareâ€Earth Metal Tetrathiafulvalene Carboxylate Frameworks as Redoxâ€Switchable Singleâ€Molecule Magnets. Chemistry - A European Journal, 2021, 27, 622-627.	3.3	21
6	A review of aerosol flammability and explosion related incidents, standards, studies, and risk analysis. Chemical Engineering Research and Design, 2021, 146, 499-514.	5.6	19
7	Highly Transparent, Robust Hydrophobic, and Amphiphilic Organicâ€“Inorganic Hybrid Coatings for Antifogging and Antibacterial Applications. ACS Applied Materials & Interfaces, 2021, 13, 6615-6630.	8.0	35
8	Coordination Polymer Glasses with Lava and Healing Ability for Highâ€Performance Gas Sieving. Angewandte Chemie, 2021, 133, 21474-21479.	2.0	3
9	Coordination Polymer Glasses with Lava and Healing Ability for Highâ€Performance Gas Sieving. Angewandte Chemie - International Edition, 2021, 60, 21304-21309.	13.8	33
10	Ligand-Directed Conformational Control over Porphyrinic Zirconium Metalâ€“Organic Frameworks for Size-Selective Catalysis. Journal of the American Chemical Society, 2021, 143, 12129-12137.	13.7	73
11	Perovskite Quantum Dots Encapsulated in a Mesoporous Metalâ€“Organic Framework as Synergistic Photocathode Materials. Journal of the American Chemical Society, 2021, 143, 14253-14260.	13.7	118
12	Coordination-bond-directed synthesis of hydrogen-bonded organic frameworks from metalâ€“organic frameworks as templates. Chemical Science, 2021, 12, 14254-14259.	7.4	20
13	A continuous flow chemistry approach for the ultrafast and low-cost synthesis of MOF-808. Green Chemistry, 2021, 23, 9982-9991.	9.0	27
14	Zirconium metalâ€“organic frameworks incorporating tetrathiafulvalene linkers: robust and redox-active matrices for <i>in situ</i> confinement of metal nanoparticles. Chemical Science, 2020, 11, 1918-1925.	7.4	43
15	Rapid desolvation-triggered domino lattice rearrangement in a metalâ€“organic framework. Nature Chemistry, 2020, 12, 90-97.	13.6	93
16	Strategies for Pore Engineering in Zirconium Metal-Organic Frameworks. CheM, 2020, 6, 2902-2923.	11.7	91
17	Kinetically Controlled Reticular Assembly of a Chemically Stable Mesoporous Ni(II)-Pyrazolate Metalâ€“Organic Framework. Journal of the American Chemical Society, 2020, 142, 13491-13499.	13.7	97
18	Precisely Embedding Active Sites into a Mesoporous Zr-Framework through Linker Installation for High-Efficiency Photocatalysis. Journal of the American Chemical Society, 2020, 142, 15020-15026.	13.7	71

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19	In Situ Ligand Bonding Management of CsPbI₃ Perovskite Quantum Dots Enables Highâ€Performance Photovoltaics and Red Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2020, 59, 22230-22237.	13.8	117
20	In Situ Ligand Bonding Management of CsPbI₃ Perovskite Quantum Dots Enables Highâ€Performance Photovoltaics and Red Lightâ€Emitting Diodes. Angewandte Chemie, 2020, 132, 22414-22421.	2.0	28
21	Stepwise Assembly of Turnâ€on Fluorescence Sensors in Multicomponent Metalâ€“Organic Frameworks for inâ€…Vitro Cyanide Detection. Angewandte Chemie, 2020, 132, 9405-9409.	2.0	18
22	Optimizing Multivariate Metalâ€“Organic Frameworks for Efficient C₂H₂/CO₂ Separation. Journal of the American Chemical Society, 2020, 142, 8728-8737.	13.7	289
23	Stepwise Assembly of Turnâ€on Fluorescence Sensors in Multicomponent Metalâ€“Organic Frameworks for inâ€…Vitro Cyanide Detection. Angewandte Chemie - International Edition, 2020, 59, 9319-9323.	13.8	104
24	Functionalization of Zirconiumâ€Based Metalâ€“Organic Layers with Tailored Pore Environments for Heterogeneous Catalysis. Angewandte Chemie, 2020, 132, 18381-18385.	2.0	7
25	Functionalization of Zirconiumâ€Based Metalâ€“Organic Layers with Tailored Pore Environments for Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2020, 59, 18224-18228.	13.8	44
26	An Encapsulation-Rearrangement Strategy to Integrate Superhydrophobicity into Mesoporous Metal-Organic Frameworks. Matter, 2020, 2, 988-999.	10.0	39
27	Continuous Variation of Lattice Dimensions and Pore Sizes in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 4732-4738.	13.7	65
28	Face-Sharing Archimedean Solids Stacking for the Construction of Mixed-Ligand Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 13841-13848.	13.7	101
29	Stability Trend of Metalâ€“Organic Frameworks with Heterometal-Modified Hexanuclear Zr Building Units. Journal of Physical Chemistry C, 2019, 123, 28266-28274.	3.1	19
30	Tuning the Ionicity of Stable Metalâ€“Organic Frameworks through Ionic Linker Installation. Journal of the American Chemical Society, 2019, 141, 3129-3136.	13.7	70
31	Ligand Rigidification for Enhancing the Stability of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 10283-10293.	13.7	172
32	Discovery of precise pH-controlled biomimetic catalysts: defective zirconium metalâ€“organic frameworks as alkaline phosphatase mimics. Nanoscale, 2019, 11, 11270-11278.	5.6	29
33	Cooperative Sieving and Functionalization of Zr Metalâ€“Organic Frameworks through Insertion and Post-Modification of Auxiliary Linkers. ACS Applied Materials & Interfaces, 2019, 11, 22390-22397.	8.0	60
34	Thermodynamically Controlled Linker Installation in Flexible Zirconium Metalâ€“Organic Frameworks. Crystal Growth and Design, 2019, 19, 2069-2073.	3.0	13
35	Porphyrinic Metalâ€“Organic Frameworks Installed with BrÃ¸nsted Acid Sites for Efficient Tandem Semisynthesis of Artemisinin. ACS Catalysis, 2019, 9, 5111-5118.	11.2	96
36	Reactivity of Atomic Layer Deposition Precursors with OH/H2O-Containing Metal Organic Framework Materials. Chemistry of Materials, 2019, 31, 2286-2295.	6.7	16

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37	Experimental and thermodynamic study of aerosol explosions in a 36â€¯L apparatus. Fuel, 2019, 245, 467-477.	6.4	18
38	Photosensitizerâ€Anchored 2D MOF Nanosheets as Highly Stable and Accessible Catalysts toward Artemisinin Production. Advanced Science, 2019, 6, 1802059.	11.2	108
39	Lattice Expansion and Contraction in Metal-Organic Frameworks by Sequential Linker Reinstallation. Matter, 2019, 1, 156-167.	10.0	67
40	Pore Size Reduction in Zirconium Metalâ€“Organic Frameworks for Ethylene/Ethane Separation. ACS Sustainable Chemistry and Engineering, 2019, 7, 7118-7126.	6.7	39
41	Creating Well-Defined Hexabenzocoronene in Zirconium Metalâ€“Organic Framework by Postsynthetic Annulation. Journal of the American Chemical Society, 2019, 141, 2054-2060.	13.7	148
42	Poreâ€Environment Engineering with Multiple Metal Sites in Rareâ€Earth Porphyrinic Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 5189-5193.	2.0	18
43	Retrosynthesis of multi-component metalâˆ’organic frameworks. Nature Communications, 2018, 9, 808.	12.8	159
44	Poreâ€Environment Engineering with Multiple Metal Sites in Rareâ€Earth Porphyrinic Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 5095-5099.	13.8	136
45	Oneâ€Step Synthesis of Hybrid Coreâ€“Shell Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 3991-3996.	2.0	33
46	Oneâ€Step Synthesis of Hybrid Coreâ€“Shell Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 3927-3932.	13.8	125
47	Creating Hierarchical Pores by Controlled Linker Thermolysis in Multivariate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 2363-2372.	13.7	310
48	Stable Metalâ€“Organic Frameworks: Design, Synthesis, and Applications. Advanced Materials, 2018, 30, e1704303.	21.0	1,740
49	Stable Metalâ€“Organic Frameworks with Group 4 Metals: Current Status and Trends. ACS Central Science, 2018, 4, 440-450.	11.3	382
50	Stable metalâ€“organic frameworks as a host platform for catalysis and biomimetics. Chemical Communications, 2018, 54, 4231-4249.	4.1	137
51	[Ti₈Zr₂O₁₂(COO)₁₆] Cluster: An Ideal Inorganic Building Unit for Photoactive Metalâ€“Organic Frameworks. ACS Central Science, 2018, 4, 105-111.	11.3	204
52	Luminescent sensors based on metal-organic frameworks. Coordination Chemistry Reviews, 2018, 354, 28-45.	18.8	987
53	Recyclable and Reusable Heteroleptic Nickel Catalyst Immobilized on Metalâ€“Organic Framework for Suzukiâ€“Miyaura Coupling. ACS Applied Materials & Interfaces, 2018, 10, 41431-41438.	8.0	45
54	Uncovering Two Principles of Multivariate Hierarchical Metalâ€“Organic Framework Synthesis via Retrosynthetic Design. ACS Central Science, 2018, 4, 1719-1726.	11.3	79

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55	Enhancing Pore-Environment Complexity Using a Trapezoidal Linker: Toward Stepwise Assembly of Multivariate Quinary Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 12328-12332.	13.7	78
56	Flexible and Hierarchical Metalâ€“Organic Framework Composites for Highâ€Performance Catalysis. Angewandte Chemie - International Edition, 2018, 57, 8916-8920.	13.8	98
57	Flexible and Hierarchical Metalâ€“Organic Framework Composites for Highâ€Performance Catalysis. Angewandte Chemie, 2018, 130, 9054-9058.	2.0	18
58	Interior Decoration of Stable Metalâ€“Organic Frameworks. Langmuir, 2018, 34, 13795-13807.	3.5	34
59	Sequential Transformation of Zirconium(IV)â€MOFs into Heterobimetallic MOFs Bearing Magnetic Anisotropic Cobalt(II) Centers. Angewandte Chemie - International Edition, 2018, 57, 12578-12583.	13.8	70
60	Sequential Transformation of Zirconium(IV)â€MOFs into Heterobimetallic MOFs Bearing Magnetic Anisotropic Cobalt(II) Centers. Angewandte Chemie, 2018, 130, 12758-12763.	2.0	5
61	Exposed Equatorial Positions of Metal Centers via Sequential Ligand Elimination and Installation in MOFs. Journal of the American Chemical Society, 2018, 140, 10814-10819.	13.7	70
62	Construction of a 36â€L dust explosion apparatus and turbulence flow field comparison with a standard 20â€L dust explosion vessel. Journal of Loss Prevention in the Process Industries, 2018, 55, 113-123.	3.3	17
63	Mixed-linker strategy for the construction of multifunctional metalâ€“organic frameworks. Journal of Materials Chemistry A, 2017, 5, 4280-4291.	10.3	163
64	Flexible Zirconium MOF as the Crystalline Sponge for Coordinative Alignment of Dicarboxylates. ACS Applied Materials & Interfaces, 2017, 9, 33408-33412.	8.0	48
65	A flexible thioether-based MOF as a crystalline sponge for structural characterization of liquid organic molecules. Materials Chemistry Frontiers, 2017, 1, 1764-1767.	5.9	15
66	Construction of hierarchically porous metalâ€“organic frameworks through linker labilization. Nature Communications, 2017, 8, 15356.	12.8	326
67	Stepwise Synthesis of Metalâ€“Organic Frameworks. Accounts of Chemical Research, 2017, 50, 857-865.	15.6	246
68	Control the Structure of Zr-Tetracarboxylate Frameworks through Steric Tuning. Journal of the American Chemical Society, 2017, 139, 16939-16945.	13.7	153
69	Flexible Zirconium MOFs as Bromineâ€Nanocontainers for Bromination Reactions under Ambient Conditions. Angewandte Chemie - International Edition, 2017, 56, 14622-14626.	13.8	65
70	Flexible Zirconium MOFs as Bromineâ€Nanocontainers for Bromination Reactions under Ambient Conditions. Angewandte Chemie, 2017, 129, 14814-14818.	2.0	13
71	Porous Organic Polymers for Postâ€Combustion Carbon Capture. Advanced Materials, 2017, 29, 1700229.	21.0	293
72	Redox-switchable breathing behavior in tetrathiafulvalene-based metalâ€“organic frameworks. Nature Communications, 2017, 8, 2008.	12.8	116

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73	Systematic Engineering of Single Substitution in Zirconium Metalâ€“Organic Frameworks toward High-Performance Catalysis. Journal of the American Chemical Society, 2017, 139, 18590-18597.	13.7	102
74	Flexible Zirconium Metalâ€Organic Frameworks as Bioinspired Switchable Catalysts. Angewandte Chemie - International Edition, 2016, 55, 10776-10780.	13.8	179
75	Modulated Synthesis of Metalâ€Organic Frameworks through Tuning of the Initial Oxidation State of the Metal. European Journal of Inorganic Chemistry, 2016, 2016, 4368-4372.	2.0	14
76	Derivation and Decoration of Nets with Trigonal-Prismatic Nodes: A Unique Route to Reticular Synthesis of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 5299-5307.	13.7	84
77	Thermodynamically Guided Synthesis of Mixed-Linker Zr-MOFs with Enhanced Tunability. Journal of the American Chemical Society, 2016, 138, 6636-6642.	13.7	232
78	Flexible Zirconium Metalâ€Organic Frameworks as Bioinspired Switchable Catalysts. Angewandte Chemie, 2016, 128, 10934-10938.	2.0	53
79	Nitrogen-rich porphyrinic metal-organic frameworks synthesized by postsynthetic metathesis: from inert material to active catalyst. Science China Chemistry, 2016, 59, 975-979.	8.2	16
80	Group 4 Metals as Secondary Building Units: Ti, Zr, and Hf-based MOFs. , 2016, , 137-170.		2
81	Linker Installation: Engineering Pore Environment with Precisely Placed Functionalities in Zirconium MOFs. Journal of the American Chemical Society, 2016, 138, 8912-8919.	13.7	278
82	A versatile synthetic route for the preparation of titanium metalâ€“organic frameworks. Chemical Science, 2016, 7, 1063-1069.	7.4	114
83	Cooperative Cluster Metalation and Ligand Migration in Zirconium Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2015, 54, 14696-14700.	13.8	169
84	A Reversible Crystallinity-Preserving Phase Transition in Metalâ€“Organic Frameworks: Discovery, Mechanistic Studies, and Potential Applications. Journal of the American Chemical Society, 2015, 137, 7740-7746.	13.7	113
85	Facile one-pot synthesis of porphyrin based porous polymer networks (PPNs) as biomimetic catalysts. Chemical Communications, 2015, 51, 4005-4008.	4.1	50
86	Sequential Linker Installation: Precise Placement of Functional Groups in Multivariate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 3177-3180.	13.7	323
87	A single crystalline porphyrinic titanium metalâ€“organic framework. Chemical Science, 2015, 6, 3926-3930.	7.4	236
88	Topology-Guided Design and Syntheses of Highly Stable Mesoporous Porphyrinic Zirconium Metalâ€“Organic Frameworks with High Surface Area. Journal of the American Chemical Society, 2015, 137, 413-419.	13.7	352
89	Photochromic Metalâ€“Organic Frameworks: Reversible Control of Singlet Oxygen Generation. Angewandte Chemie - International Edition, 2015, 54, 430-435.	13.8	307
90	Lithium inclusion in indium metal-organic frameworks showing increased surface area and hydrogen adsorption. APL Materials, 2014, 2, .	5.1	11

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91	A Highly Stable Porphyrinic Zirconium Metalâ€“Organic Framework with shp-a Topology. Journal of the American Chemical Society, 2014, 136, 17714-17717.	13.7	356
92	Two isomeric [Cu4I4] luminophores: solvothermal/mechanochemical syntheses, structures and thermochromic luminescence properties. CrystEngComm, 2014, 16, 1927.	2.6	55
93	A 3D Luminescent Metalâ€organic Framework Constructed from Cu₄I₄ Cubane Clusters and Triangular Imidazole Ligand. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 2030-2034.	1.2	13
94	A Series of Highly Stable Mesoporous Metalloporphyrin Fe-MOFs. Journal of the American Chemical Society, 2014, 136, 13983-13986.	13.7	363
95	Four New Cd(II) Coordination Polymers with Mixed Multidentate N-Donors and Biphenyl-Based Polycarboxylate Ligands: Syntheses, Structures, and Photoluminescent Properties. Crystal Growth and Design, 2013, 13, 377-385.	3.0	200
96	Reactant ratio-modulated six new copper(i)â€“iodide coordination complexes based on diverse [CumIm] aggregates and biimidazole linkers: syntheses, structures and temperature-dependent luminescence properties. CrystEngComm, 2013, 15, 7792.	2.6	45
97	Eight Zn(ii) coordination networks based on flexible 1,4-di(1H-imidazol-1-yl)butane and different dicarboxylates: crystal structures, water clusters, and topologies. Dalton Transactions, 2013, 42, 12324.	3.3	76
98	Luminescence thermochromism of two entangled copper-iodide networks with a large temperature-dependent emission shift. Chemical Communications, 2013, 49, 6152.	4.1	180
99	Two novel entangled metalâ€“organic networks constructed from 4,4â€²-bis(2-methylimidazol-1-ylmethyl)biphenyl and dicarboxylates: From polycatenated 2D + 2D â†’ 3D framework to polyrotaxane-like 2D + 2D â†’ 2D layer. CrystEngComm, 2012, 14, 7856.	2.6	42
100	Three- and Eight-Fold Interpenetrated ThSi₂ Metalâ€“Organic Frameworks Fine-Tuned by the Length of Ligand. Crystal Growth and Design, 2012, 12, 2902-2907.	3.0	61