Peng Li

List of Publications by Year
in descending order

106 papers	12,842 citations	28190 55 h-index	27345 106 g-index
114 all docs	114 docs citations	114 times ranked	11727 citing authors

#	Article	IF	Citations
1	Chemical, thermal and mechanical stabilities of metalâ€“organic frameworks. Nature Reviews Materials, 2016, 1, .	23.3	1,490
2	Multifunctional porous hydrogen-bonded organic framework materials. Chemical Society Reviews, 2019, 48, 1362-1389.	18.7	751
3	Identifying the Recognition Site for Selective Trapping of ⁹⁹TcO₄^{â€“} in a Hydrolytically Stable and Radiation Resistant Cationic Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 14873-14876.	6.6	386
4	A historical overview of the activation and porosity of metalâ€“organic frameworks. Chemical Society Reviews, 2020, 49, 7406-7427.	18.7	367
5	Acid-Resistant Mesoporous Metalâ€“Organic Framework toward Oral Insulin Delivery: Protein Encapsulation, Protection, and Release. Journal of the American Chemical Society, 2018, 140, 5678-5681.	6.6	334
6	Encapsulation of a Nerve Agent Detoxifying Enzyme by a Mesoporous Zirconium Metalâ€“Organic Framework Engenders Thermal and Long-Term Stability. Journal of the American Chemical Society, 2016, 138, 8052-8055.	6.6	302
7	A Homochiral Microporous Hydrogen-Bonded Organic Framework for Highly Enantioselective Separation of Secondary Alcohols. Journal of the American Chemical Society, 2014, 136, 547-549.	6.6	292
8	A Rodâ€Packing Microporous Hydrogenâ€Bonded Organic Framework for Highly Selective Separation of C₂H₂/CO₂ at Room Temperature. Angewandte Chemie - International Edition, 2015, 54, 574-577.	7.2	289
9	Catalytic Zirconium/Hafnium-Based Metalâ€“Organic Frameworks. ACS Catalysis, 2017, 7, 997-1014.	5.5	288
10	Toward Design Rules for Enzyme Immobilization in Hierarchical Mesoporous Metal-Organic Frameworks. CheM, 2016, 1, 154-169.	5.8	286
11	Bottom-up construction of a superstructure in a porous uranium-organic crystal. Science, 2017, 356, 624-627.	6.0	286
12	Copper Metalâ€“Organic Framework Nanoparticles Stabilized with Folic Acid Improve Wound Healing in Diabetes. ACS Nano, 2018, 12, 1023-1032.	7.3	282
13	Hierarchically Engineered Mesoporous Metal-Organic Frameworks toward Cell-free Immobilized Enzyme Systems. CheM, 2018, 4, 1022-1034.	5.8	281
14	Temperature Treatment of Highly Porous Zirconium-Containing Metalâ€“Organic Frameworks Extends Drug Delivery Release. Journal of the American Chemical Society, 2017, 139, 7522-7532.	6.6	269
15	Melt-Quenched Glasses of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 3484-3492.	6.6	252
16	Enzyme encapsulation in metalâ€“organic frameworks for applications in catalysis. CrystEngComm, 2017, 19, 4082-4091.	1.3	235
17	99TcO4â˜ remediation by a cationic polymeric network. Nature Communications, 2018, 9, 3007.	5.8	234
18	In silico discovery of metal-organic frameworks for precombustion CO ₂ capture using a genetic algorithm. Science Advances, 2016, 2, e1600909.	4.7	231

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19	DNA-Functionalized Metalâ€“Organic Framework Nanoparticles for Intracellular Delivery of Proteins. Journal of the American Chemical Society, 2019, 141, 2215-2219.	6.6	231
20	Nanosizing a Metalâ€“Organic Framework Enzyme Carrier for Accelerating Nerve Agent Hydrolysis. ACS Nano, 2016, 10, 9174-9182.	7.3	202
21	Synthesis of nanocrystals of Zr-based metalâ€“organic frameworks with csq-net: significant enhancement in the degradation of a nerve agent simulant. Chemical Communications, 2015, 51, 10925-10928.	2.2	194
22	Role of Modulators in Controlling the Colloidal Stability and Polydispersity of the UiO-66 Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2017, 9, 33413-33418.	4.0	183
23	Successful Decontamination of ⁹⁹TcO₄^{â^'} in Groundwater at Legacy Nuclear Sites by a Cationic Metalâ€Organic Framework with Hydrophobic Pockets. Angewandte Chemie - International Edition, 2019, 58, 4968-4972.	7.2	177
24	Design and Synthesis of a Waterâ€Stable Anionic Uraniumâ€Based Metalâ€“Organic Framework (MOF) with Ultra Large Pores. Angewandte Chemie - International Edition, 2016, 55, 10358-10362.	7.2	175
25	Design Rules of Hydrogen-Bonded Organic Frameworks with High Chemical and Thermal Stabilities. Journal of the American Chemical Society, 2022, 144, 10663-10687.	6.6	174
26	Integration of Enzymes and Photosensitizers in a Hierarchical Mesoporous Metalâ€“Organic Framework for Light-Driven CO₂ Reduction. Journal of the American Chemical Society, 2020, 142, 1768-1773.	6.6	163
27	Catalytic chemoselective functionalization of methane in a metalâ^'organic framework. Nature Catalysis, 2018, 1, 356-362.	16.1	153
28	Reticular Access to Highly Porous acs-MOFs with Rigid Trigonal Prismatic Linkers for Water Sorption. Journal of the American Chemical Society, 2019, 141, 2900-2905.	6.6	150
29	Scalable and Template-Free Aqueous Synthesis of Zirconium-Based Metalâ€“Organic Framework Coating on Textile Fiber. Journal of the American Chemical Society, 2019, 141, 15626-15633.	6.6	148
30	A microporous six-fold interpenetrated hydrogen-bonded organic framework for highly selective separation of C₂H₄/C₂H₆. Chemical Communications, 2014, 50, 13081-13084.	2.2	147
31	Reticular Chemistry for Highly Porous Metalâ€“Organic Frameworks: The Chemistry and Applications. Accounts of Chemical Research, 2022, 55, 579-591.	7.6	145
32	Adsorption of a Catalytically Accessible Polyoxometalate in a Mesoporous Channel-type Metalâ€“Organic Framework. Chemistry of Materials, 2017, 29, 5174-5181.	3.2	143
33	Revisiting the structural homogeneity of NU-1000, a Zr-based metalâ€“organic framework. CrystEngComm, 2018, 20, 5913-5918.	1.3	136
34	Topology and porosity control of metalâ€“organic frameworks through linker functionalization. Chemical Science, 2019, 10, 1186-1192.	3.7	129
35	Three-Dimensional Pillar-Layered Copper(II) Metalâ^'Organic Framework with Immobilized Functional OH Groups on Pore Surfaces for Highly Selective CO₂/CH₄ and C₂H₂/CH₄ Gas Sorption at Room Temperature. Inorganic Chemistry, 2011, 50, 3442-3446.	1.9	115
36	A Microporous Porphyrin-Based Hydrogen-Bonded Organic Framework for Gas Separation. Crystal Growth and Design, 2015, 15, 2000-2004.	1.4	115

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37	A Redox-Active Bistable Molecular Switch Mounted inside a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 14242-14245.	6.6	114
38	Vanadium Catalyst on Isostructural Transition Metal, Lanthanide, and Actinide Based Metalâ€“Organic Frameworks for Alcohol Oxidation. Journal of the American Chemical Society, 2019, 141, 8306-8314.	6.6	112
39	Ultrastable Mesoporous Hydrogen-Bonded Organic Framework-Based Fiber Composites toward Mustard Gas Detoxification. Cell Reports Physical Science, 2020, 1, 100024.	2.8	107
40	Stabilization of Formate Dehydrogenase in a Metalâ€“Organic Framework for Bioelectrocatalytic Reduction of CO₂. Angewandte Chemie - International Edition, 2019, 58, 7682-7686.	7.2	103
41	A Microporous Metal<i>â€“</i>Organic Framework with Immobilized â€“OH Functional Groups within the Pore Surfaces for Selective Gas Sorption. European Journal of Inorganic Chemistry, 2010, 2010, 3745-3749.	1.0	97
42	Selective Metalâ€“Organic Framework Catalysis of Glucose to 5-Hydroxymethylfurfural Using Phosphate-Modified NU-1000. Industrial & Engineering Chemistry Research, 2017, 56, 7141-7148.	1.8	95
43	Structural Diversity of Zirconium Metalâ€“Organic Frameworks and Effect on Adsorption of Toxic Chemicals. Journal of the American Chemical Society, 2020, 142, 21428-21438.	6.6	95
44	Interpenetration Isomerism in Triptyceneâ€Based Hydrogenâ€Bonded Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 1664-1669.	7.2	93
45	Versatile and Switchable Responsive Properties of a Lanthanideâ€Viologen Metalâ€“Organic Framework. Small, 2019, 15, e1803468.	5.2	88
46	Room Temperature Synthesis of an 8-Connected Zr-Based Metalâ€“Organic Framework for Top-Down Nanoparticle Encapsulation. Chemistry of Materials, 2018, 30, 2193-2197.	3.2	80
47	From Transition Metals to Lanthanides to Actinides: Metal-Mediated Tuning of Electronic Properties of Isostructural Metalâ€“Organic Frameworks. Inorganic Chemistry, 2018, 57, 13246-13251.	1.9	80
48	Exploring the Role of Hexanuclear Clusters as Lewis Acidic Sites in Isostructural Metalâ€“Organic Frameworks. Chemistry of Materials, 2019, 31, 4166-4172.	3.2	80
49	Hydrogen-bonding 2D metalâ€“organic solids as highly robust and efficient heterogeneous green catalysts for Biginelli reaction. Tetrahedron Letters, 2011, 52, 6220-6222.	0.7	68
50	A Bismuth Metalâ€“Organic Framework as a Contrast Agent for X-ray Computed Tomography. ACS Applied Bio Materials, 2019, 2, 1197-1203.	2.3	68
51	A Highly Porous Metal-Organic Framework System to Deliver Payloads for Gene Knockdown. CheM, 2019, 5, 2926-2941.	5.8	66
52	Computational Screening of Nanoporous Materials for Hexane and Heptane Isomer Separation. Chemistry of Materials, 2017, 29, 6315-6328.	3.2	65
53	Enantioselective ring-opening of meso-epoxides by aromatic amines catalyzed by a homochiral metalâ€“organic framework. Chemical Communications, 2013, 49, 9836.	2.2	60
54	Adding to the Arsenal of Zirconiumâ€Based Metalâ€“Organic Frameworks: <i>the</i> Topology as a Platform for Solventâ€Assisted Metal Incorporation. European Journal of Inorganic Chemistry, 2016, 2016, 4349-4352.	1.0	59

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55	Significantly Enhanced CO₂/CH₄ Separation Selectivity within a 3D Prototype Metalâ€“Organic Framework Functionalized with OH Groups on Pore Surfaces at Room Temperature. European Journal of Inorganic Chemistry, 2011, 2011, 2227-2231.	1.0	56
56	Single-Crystal Polycationic Polymers Obtained by Single-Crystal-to-Single-Crystal Photopolymerization. Journal of the American Chemical Society, 2020, 142, 6180-6187.	6.6	50
57	A sulfonate-based Cu(I) metal-organic framework as a highly efficient and reusable catalyst for the synthesis of propargylamines under solvent-free conditions. Chinese Chemical Letters, 2015, 26, 6-10.	4.8	49
58	Unprecedented selectivity in molecular recognition of carbohydrates by a metalâ€“organic framework. Chemical Communications, 2016, 52, 7094-7097.	2.2	49
59	Multi-component synthesis of 2-amino-6-(alkylthio)pyridine-3,5-dicarbonitriles using Zn(II) and Cd(II) metalâ€“organic frameworks (MOFs) under solvent-free conditions. Tetrahedron Letters, 2012, 53, 4870-4872.	0.7	48
60	Chemically Engineered Porous Molecular Coatings as Reactive Oxygen Species Generators and Reservoirs for Longâ€Lasting Selfâ€Cleaning Textiles. Angewandte Chemie - International Edition, 2022, 61, e202115956.	7.2	45
61	Design and Synthesis of a Waterâ€Stable Anionic Uraniumâ€Based Metalâ€“Organic Framework (MOF) with Ultra Large Pores. Angewandte Chemie, 2016, 128, 10514-10518.	1.6	44
62	Epitaxial Growth of Î³-Cyclodextrin-Containing Metalâ€“Organic Frameworks Based on a Hostâ€“Guest Strategy. Journal of the American Chemical Society, 2018, 140, 11402-11407.	6.6	44
63	Interplay of Lewis and BrÃ¸nsted Acid Sites in Zr-Based Metalâ€“Organic Frameworks for Efficient Esterification of Biomass-Derived Levulinic Acid. ACS Applied Materials & Interfaces, 2019, 11, 32090-32096.	4.0	44
64	Intramolecular Energy and Electron Transfer within a Diazaperopyrenium-Based Cyclophane. Journal of the American Chemical Society, 2017, 139, 4107-4116.	6.6	42
65	N-Heterocyclic carbenes and their precursors in functionalised porous materials. Chemical Society Reviews, 2021, 50, 13559-13586.	18.7	42
66	Bioinspired Metalation of the Metalâ€Organic Framework MILâ€125â€NH₂for Photocatalytic NADH Regeneration and Gasâ€Liquidâ€Solid Threeâ€Phase Enzymatic CO₂Reduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	41
67	Stabilization of an Unprecedented Hexanuclear Secondary Building Unit in a Thorium-Based Metalâ€“Organic Framework. Inorganic Chemistry, 2019, 58, 3586-3590.	1.9	38
68	Reactive Porous Polymers for Detoxification of a Chemical Warfare Agent Simulant. Chemistry of Materials, 2020, 32, 9299-9306.	3.2	38
69	Successful Decontamination of ⁹⁹TcO₄^{âˆ’} in Groundwater at Legacy Nuclear Sites by a Cationic Metalâ€Organic Framework with Hydrophobic Pockets. Angewandte Chemie, 2019, 131, 5022-5026.	1.6	37
70	Ultrafine Silver Nanoparticle Encapsulated Porous Molecular Traps for Discriminative Photoelectrochemical Detection of Mustard Gas Simulants by Synergistic Sizeâ€Exclusion and Siteâ€Specific Recognition. Advanced Materials, 2022, 34, .	11.1	37
71	Solvent Dependent Structures of Melamine: Porous or Nonporous?. Crystal Growth and Design, 2015, 15, 1871-1875.	1.4	36
72	In Situ Formation of Unprecedented Neptunium-Oxide Wheel Clusters Stabilized in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 11842-11846.	6.6	36

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73	A Flexible Interpenetrated Zirconiumâ€Based Metalâ€“Organic Framework with High Affinity toward Ammonia. ChemSusChem, 2020, 13, 1710-1714.	3.6	36
74	Complete furanicsâ€“sugar separations with metalâ€“organic framework NU-1000. Chemical Communications, 2016, 52, 11791-11794.	2.2	34
75	Synthetic Control of Thorium Polyoxo-Clusters in Metalâ€“Organic Frameworks toward New Thorium-Based Materials. ACS Applied Nano Materials, 2019, 2, 2260-2265.	2.4	34
76	An Electrically Conductive Tetrathiafulvalene-Based Hydrogen-Bonded Organic Framework. , 2022, 4, 128-135.		34
77	A metalâ€“organic framework as a highly efficient and reusable catalyst for the solvent-free 1,3-dipolar cycloaddition of organic azides to alkynes. Inorganic Chemistry Frontiers, 2015, 2, 42-46.	3.0	33
78	Are you using the right probe molecules for assessing the textural properties of metalâ€“organic frameworks?. Journal of Materials Chemistry A, 2021, 10, 157-173.	5.2	33
79	Supramolecular Isomerism of Metalâˆ’Organic Frameworks Derived from a Bicarboxylate Linker with Two Distinct Binding Motifs. Crystal Growth and Design, 2009, 9, 1505-1510.	1.4	32
80	Stabilization of Formate Dehydrogenase in a Metalâ€“Organic Framework for Bioelectrocatalytic Reduction of CO 2. Angewandte Chemie, 2019, 131, 7764-7768.	1.6	31
81	Guest-Dependent Single-Crystal-to-Single-Crystal Phase Transitions in a Two-Dimensional Uranyl-Based Metalâ€“Organic Framework. Crystal Growth and Design, 2019, 19, 506-512.	1.4	29
82	Interpenetration Isomerism in Triptyceneâ€Based Hydrogenâ€Bonded Organic Frameworks. Angewandte Chemie, 2019, 131, 1678-1683.	1.6	29
83	MOFs and their grafted analogues: regioselective epoxide ring-opening with Zr₆ nodes. Catalysis Science and Technology, 2016, 6, 6480-6484.	2.1	27
84	Toward Design Rules of Metalâ€“Organic Frameworks for Adsorption Cooling: Effect of Topology on the Ethanol Working Capacity. Chemistry of Materials, 2019, 31, 2702-2706.	3.2	27
85	Solvent Dependent Structures of Hydrogen-Bonded Organic Frameworks of 2,6-Diaminopurine. Crystal Growth and Design, 2014, 14, 3634-3638.	1.4	26
86	Stabilization of Photocatalytically Active Uranyl Species in a Uranylâ€“Organic Framework for Heterogeneous Alkane Fluorination Driven by Visible Light. Inorganic Chemistry, 2020, 59, 16795-16798.	1.9	26
87	Organic Counteranion Co-assembly Strategy for the Formation of Î³-Cyclodextrin-Containing Hybrid Frameworks. Journal of the American Chemical Society, 2020, 142, 2042-2050.	6.6	26
88	Reticular exploration of uranium-based metalâ€”organic frameworks with hexacarboxylate building units. Nano Research, 2021, 14, 376-380.	5.8	25
89	A Hierarchical Nanoporous Diamondoid Superstructure. CheM, 2019, 5, 2353-2364.	5.8	23
90	Direct Observation of Modulated Radical Spin States in Metalâ€“Organic Frameworks by Controlled Flexibility. Journal of the American Chemical Society, 2022, 144, 2685-2693.	6.6	23

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91	Reticular chemistry approach to explore the catalytic CO2-epoxide cycloaddition reaction over tetrahedral coordination Lewis acidic sites in a Rutile-type Zinc-phosphonocarboxylate framework. Chemical Engineering Journal, 2022, 427, 131759.	6.6	20
92	Understanding Diffusional Charge Transport within a Pyrene-Based Hydrogen-Bonded Organic Framework. Langmuir, 2022, 38, 1533-1539.	1.6	17
93	Toward a Charged Homo[2]catenane Employing Diazaperopyrenium Homophilic Recognition. Journal of the American Chemical Society, 2018, 140, 6540-6544.	6.6	15
94	Unprecedented trinodal four-connected FRL MOF based on mixed ligands. Dalton Transactions, 2009, , 4847.	1.6	14
95	Insights into Supramolecular Sites Responsible for Complete Separation of Biomass-Derived Phenolics and Glucose in Metalâ€"Organic Framework NU-1000. Langmuir, 2017, 33, 4129-4137.	1.6	14
96	Bottom-Up Design and Generation of Complex Structures: A New Twist in Reticular Chemistry. Crystal Growth and Design, 2018, 18, 449-455.	1.4	14
97	Bottom-up construction of mesoporous supramolecular isomers based on a Pd3L6 triangular prism as templates for shape specific aggregation of polyiodide. Nano Research, 2022, 15, 2655-2660.	5.8	13
98	Organic Compounds of Actinyls: Systematic Computational Assessment of Structural and Topological Properties in [AnO₂(C₂O₄)_{<i>n</i>}]^{(2<i>n</i>â^'2)â€"} (An) Tj ETQq0 0 0 rgBT /Ove	1.9	11
99	Discovery of spontaneous de-interpenetration through charged point-point repulsions. CheM, 2022, 8, 225-242.	5.8	11
100	Micropore environment regulation of zirconium MOFs for instantaneous hydrolysis of an organophosphorus chemical. Cell Reports Physical Science, 2021, 2, 100612.	2.8	10
101	Post-synthetic anchoring Fe(III) into a fcu-type Zr-MOF for the catalyzed hydrolysis of 5-hydroxylmethoxyfurfural. Microporous and Mesoporous Materials, 2021, 328, 111449.	2.2	5
102	Effect of ionic liquid on sugar-aromatic separation selectivity by metal-organic framework NU-1000 in aqueous solution. Fuel Processing Technology, 2020, 197, 106189.	3.7	4
103	Chemically Engineered Porous Molecular Coatings as Reactive Oxygen Species Generators and Reservoirs for Longâ€Lasting Selfâ€Cleaning Textiles. Angewandte Chemie, 2022, 134, .	1.6	3
104	Bioinspired Metalation of the Metalâ€Organic Framework MILâ€125â€NH₂ for Photocatalytic NADH Regeneration and Gasâ€Liquidâ€Solid Threeâ€Phase Enzymatic CO₂ Reduction. Angewandte Chemie, 2022, 134, .	1.6	3
105	Actinyl-Carboxylate Complexes [AnO₂(COOH)<i>_n</i>(H₂O)<i>_m</i>]^{2â€"<i>n</i>} (An = U, Np, Pu, and Am; <i>n</i> = 1â€"3; <i>m</i> = 0, 2, 4; 2<i>n</i> + <i>m</i> = 6): Electronic Structures, Interaction Features, and the Potential to Adsorbents toward Cs Ion. ACS Omega, 2020, 5, 31974-31983.	1.6	2
106	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks:theTopology as a Platform for Solvent-Assisted Metal Incorporation. European Journal of Inorganic Chemistry, 2016, 2016, 4266-4266.	1.0	1