

# Peng Li

## List of Publications by Citations

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101  
papers

8,322  
citations

47  
h-index

91  
g-index

114  
ext. papers

10,462  
ext. citations

12.3  
avg, IF

6.32  
L-index

#	Paper	IF	Citations
101	Chemical, thermal and mechanical stabilities of metal-organic frameworks. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	1026
100	Multifunctional porous hydrogen-bonded organic framework materials. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 1362-1389	58.5	358
99	Identifying the Recognition Site for Selective Trapping of TcO in a Hydrolytically Stable and Radiation Resistant Cationic Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14873-14876	16.4	263
98	Encapsulation of a Nerve Agent Detoxifying Enzyme by a Mesoporous Zirconium Metal-Organic Framework Engenders Thermal and Long-Term Stability. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8052-5	16.4	240
97	Catalytic Zirconium/Hafnium-Based Metal-Organic Frameworks. <i>ACS Catalysis</i> , <b>2017</b> , 7, 997-1014	13.1	233
96	A homochiral microporous hydrogen-bonded organic framework for highly enantioselective separation of secondary alcohols. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 547-9	16.4	233
95	Acid-Resistant Mesoporous Metal-Organic Framework toward Oral Insulin Delivery: Protein Encapsulation, Protection, and Release. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 5678-5681	16.4	228
94	Bottom-up construction of a superstructure in a porous uranium-organic crystal. <i>Science</i> , <b>2017</b> , 356, 624-627	32.7	223
93	Toward Design Rules for Enzyme Immobilization in Hierarchical Mesoporous Metal-Organic Frameworks. <i>Chem</i> , <b>2016</b> , 1, 154-169	16.2	217
92	Temperature Treatment of Highly Porous Zirconium-Containing Metal-Organic Frameworks Extends Drug Delivery Release. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7522-7532	16.4	216
91	Enzyme encapsulation in metal-organic frameworks for applications in catalysis. <i>CrystEngComm</i> , <b>2017</b> , 19, 4082-4091	3.3	191
90	Hierarchically Engineered Mesoporous Metal-Organic Frameworks toward Cell-free Immobilized Enzyme Systems. <i>Chem</i> , <b>2018</b> , 4, 1022-1034	16.2	187
89	Copper Metal-Organic Framework Nanoparticles Stabilized with Folic Acid Improve Wound Healing in Diabetes. <i>ACS Nano</i> , <b>2018</b> , 12, 1023-1032	16.7	173
88	In silico discovery of metal-organic frameworks for precombustion CO capture using a genetic algorithm. <i>Science Advances</i> , <b>2016</b> , 2, e1600909	14.3	164
87	Melt-Quenched Glasses of Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3484-92	16.4	161
86	A historical overview of the activation and porosity of metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 7406-7427	58.5	158
85	Nanosizing a Metal-Organic Framework Enzyme Carrier for Accelerating Nerve Agent Hydrolysis. <i>ACS Nano</i> , <b>2016</b> , 10, 9174-9182	16.7	157

84	Synthesis of nanocrystals of Zr-based metal-organic frameworks with csq-net: significant enhancement in the degradation of a nerve agent simulant. <i>Chemical Communications</i> , <b>2015</b> , 51, 10925-8 <sup>5.8</sup>	155
83	TcO remediation by a cationic polymeric network. <i>Nature Communications</i> , <b>2018</b> , 9, 3007	17.4 151
82	Design and Synthesis of a Water-Stable Anionic Uranium-Based Metal-Organic Framework (MOF) with Ultra Large Pores. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10358-62	16.4 141
81	A rod-packing microporous hydrogen-bonded organic framework for highly selective separation of C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> at room temperature. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 574-7	16.4 137
80	DNA-Functionalized Metal-Organic Framework Nanoparticles for Intracellular Delivery of Proteins. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2215-2219	16.4 136
79	Role of Modulators in Controlling the Colloidal Stability and Polydispersity of the UiO-66 Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33413-33418	9.5 115
78	Three-dimensional pillar-layered copper(II) metal-organic framework with immobilized functional OH groups on pore surfaces for highly selective CO <sub>2</sub> /CH <sub>4</sub> and C <sub>2</sub> H <sub>2</sub> /CH <sub>4</sub> gas sorption at room temperature. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 3442-6	5.1 111
77	Successful Decontamination of TcO in Groundwater at Legacy Nuclear Sites by a Cationic Metal-Organic Framework with Hydrophobic Pockets. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4968-4972	16.4 111
76	Catalytic chemoselective functionalization of methane in a metal-organic framework. <i>Nature Catalysis</i> , <b>2018</b> , 1, 356-362	36.5 109
75	A microporous six-fold interpenetrated hydrogen-bonded organic framework for highly selective separation of C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> H <sub>6</sub> . <i>Chemical Communications</i> , <b>2014</b> , 50, 13081-4	5.8 105
74	Adsorption of a Catalytically Accessible Polyoxometalate in a Mesoporous Channel-type Metal-Organic Framework. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5174-5181	9.6 102
73	A Redox-Active Bistable Molecular Switch Mounted inside a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 14242-14245	16.4 95
72	A Rod-Packing Microporous Hydrogen-Bonded Organic Framework for Highly Selective Separation of C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> at Room Temperature. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 584-587	3.6 92
71	A Microporous Metal-Organic Framework with Immobilized OH Functional Groups within the Pore Surfaces for Selective Gas Sorption. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 3745-3749	2.3 92
70	Topology and porosity control of metal-organic frameworks through linker functionalization. <i>Chemical Science</i> , <b>2019</b> , 10, 1186-1192	9.4 90
69	Reticular Access to Highly Porous acs-MOFs with Rigid Trigonal Prismatic Linkers for Water Sorption. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2900-2905	16.4 87
68	Revisiting the structural homogeneity of NU-1000, a Zr-based metal-organic framework. <i>CrystEngComm</i> , <b>2018</b> , 20, 5913-5918	3.3 83
67	Vanadium Catalyst on Isostructural Transition Metal, Lanthanide, and Actinide Based Metal-Organic Frameworks for Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 8306-8314	16.4 81

66	A Microporous Porphyrin-Based Hydrogen-Bonded Organic Framework for Gas Separation. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 2000-2004	3.5	80
65	Integration of Enzymes and Photosensitizers in a Hierarchical Mesoporous Metal-Organic Framework for Light-Driven CO Reduction. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1768-1773	16.4	80
64	Scalable and Template-Free Aqueous Synthesis of Zirconium-Based Metal-Organic Framework Coating on Textile Fiber. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15626-15633	16.4	77
63	Selective Metal-Organic Framework Catalysis of Glucose to 5-Hydroxymethylfurfural Using Phosphate-Modified NU-1000. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 7141-7148	3.9	75
62	Versatile and Switchable Responsive Properties of a Lanthanide-Viologen Metal-Organic Framework. <i>Small</i> , <b>2019</b> , 15, e1803468	11	64
61	Hydrogen-bonding 2D metal-organic solids as highly robust and efficient heterogeneous green catalysts for Biginelli reaction. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 6220-6222	2	63
60	Room Temperature Synthesis of an 8-Connected Zr-Based Metal-Organic Framework for Top-Down Nanoparticle Encapsulation. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 2193-2197	9.6	59
59	Stabilization of Formate Dehydrogenase in a Metal-Organic Framework for Bioelectrocatalytic Reduction of CO. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7682-7686	16.4	57
58	Interpenetration Isomerism in Triptycene-Based Hydrogen-Bonded Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1664-1669	16.4	56
57	From Transition Metals to Lanthanides to Actinides: Metal-Mediated Tuning of Electronic Properties of Isostructural Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 13246-13251	5.1	54
56	Enantioselective ring-opening of meso-epoxides by aromatic amines catalyzed by a homochiral metal-organic framework. <i>Chemical Communications</i> , <b>2013</b> , 49, 9836-8	5.8	52
55	Significantly Enhanced CO <sub>2</sub> /CH <sub>4</sub> Separation Selectivity within a 3D Prototype Metal-Organic Framework Functionalized with OH Groups on Pore Surfaces at Room Temperature. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 2227-2231	2.3	52
54	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks: the Topology as a Platform for Solvent-Assisted Metal Incorporation. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4349-4352	2.3	46
53	Computational Screening of Nanoporous Materials for Hexane and Heptane Isomer Separation. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6315-6328	9.6	46
52	Exploring the Role of Hexanuclear Clusters as Lewis Acidic Sites in Isostructural Metal-Organic Frameworks. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4166-4172	9.6	44
51	Structural Diversity of Zirconium Metal-Organic Frameworks and Effect on Adsorption of Toxic Chemicals. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 21428-21438	16.4	44
50	Unprecedented selectivity in molecular recognition of carbohydrates by a metal-organic framework. <i>Chemical Communications</i> , <b>2016</b> , 52, 7094-7	5.8	44
49	A sulfonate-based Cu(I) metal-organic framework as a highly efficient and reusable catalyst for the synthesis of propargylamines under solvent-free conditions. <i>Chinese Chemical Letters</i> , <b>2015</b> , 26, 6-10	8.1	43

48	Multi-component synthesis of 2-amino-6-(alkylthio)pyridine-3,5-dicarbonitriles using Zn(II) and Cd(II) metal-organic frameworks (MOFs) under solvent-free conditions. <i>Tetrahedron Letters</i> , <b>2012</b> , 53, 4870-4872	2	42
47	A Bismuth Metal-Organic Framework as a Contrast Agent for X-ray Computed Tomography.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 1197-1203	4.1	40
46	Design and Synthesis of a Water-Stable Anionic Uranium-Based Metal-Organic Framework (MOF) with Ultra Large Pores. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10514-10518	3.6	37
45	Ultrastable Mesoporous Hydrogen-Bonded Organic Framework-Based Fiber Composites toward Mustard Gas Detoxification. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100024	6.1	36
44	A Highly Porous Metal-Organic Framework System to Deliver Payloads for Gene Knockdown. <i>Chem</i> , <b>2019</b> , 5, 2926-2941	16.2	34
43	Intramolecular Energy and Electron Transfer within a Diazaperopyrenium-Based Cyclophane. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4107-4116	16.4	31
42	Stabilization of an Unprecedented Hexanuclear Secondary Building Unit in a Thorium-Based Metal-Organic Framework. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 3586-3590	5.1	31
41	Supramolecular Isomerism of Metal-Organic Frameworks Derived from a Bicarboxylate Linker with Two Distinct Binding Motifs. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1505-1510	3.5	31
40	Complete furanics-sugar separations with metal-organic framework NU-1000. <i>Chemical Communications</i> , <b>2016</b> , 52, 11791-11794	5.8	29
39	In Situ Formation of Unprecedented Neptunium-Oxide Wheel Clusters Stabilized in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11842-11846	16.4	28
38	Solvent Dependent Structures of Melamine: Porous or Nonporous?. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 1871-1875	3.5	27
37	Epitaxial Growth of Cyclodextrin-Containing Metal-Organic Frameworks Based on a Host-Guest Strategy. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11402-11407	16.4	27
36	Synthetic Control of Thorium Polyoxo-Clusters in Metal-Organic Frameworks toward New Thorium-Based Materials. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 2260-2265	5.6	26
35	Interplay of Lewis and Brønsted Acid Sites in Zr-Based Metal-Organic Frameworks for Efficient Esterification of Biomass-Derived Levulinic Acid. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32090-32096	9.5	25
34	Guest-Dependent Single-Crystal-to-Single-Crystal Phase Transitions in a Two-Dimensional Uranyl-Based Metal-Organic Framework. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 506-512	3.5	25
33	Stabilization of Formate Dehydrogenase in a Metal-Organic Framework for Bioelectrocatalytic Reduction of CO <sub>2</sub> . <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7764-7768	3.6	24
32	Successful Decontamination of <sup>99</sup> TcO <sub>4</sub> <sup>-</sup> in Groundwater at Legacy Nuclear Sites by a Cationic Metal-Organic Framework with Hydrophobic Pockets. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5022-5026	3.6	24
31	A metal-organic framework as a highly efficient and reusable catalyst for the solvent-free 1,3-dipolar cycloaddition of organic azides to alkynes. <i>Inorganic Chemistry Frontiers</i> , <b>2015</b> , 2, 42-46	6.8	23

30	MOFs and their grafted analogues: regioselective epoxide ring-opening with Zr6 nodes. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 6480-6484	5.5	22
29	A Flexible Interpenetrated Zirconium-Based Metal-Organic Framework with High Affinity toward Ammonia. <i>ChemSusChem</i> , <b>2020</b> , 13, 1710-1714	8.3	21
28	Toward Design Rules of Metal-Organic Frameworks for Adsorption Cooling: Effect of Topology on the Ethanol Working Capacity. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2702-2706	9.6	19
27	Interpenetration Isomerism in Triptycene-Based Hydrogen-Bonded Organic Frameworks. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1678-1683	3.6	19
26	Single-Crystal Polycationic Polymers Obtained by Single-Crystal-to-Single-Crystal Photopolymerization. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6180-6187	16.4	18
25	Solvent Dependent Structures of Hydrogen-Bonded Organic Frameworks of 2,6-Diaminopurine. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3634-3638	3.5	17
24	Reticular Chemistry for Highly Porous Metal-Organic Frameworks: The Chemistry and Applications.. <i>Accounts of Chemical Research</i> , <b>2022</b> ,	24.3	17
23	Organic Counteranion Co-assembly Strategy for the Formation of $\beta$ -Cyclodextrin-Containing Hybrid Frameworks. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 2042-2050	16.4	15
22	Unprecedented trinodal four-connected FRL MOF based on mixed ligands. <i>Dalton Transactions</i> , <b>2009</b> , 4847-9	4.3	14
21	Reactive Porous Polymers for Detoxification of a Chemical Warfare Agent Simulant. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9299-9306	9.6	14
20	Reticular exploration of uranium-based metal-organic frameworks with hexacarboxylate building units. <i>Nano Research</i> , <b>2021</b> , 14, 376-380	10	14
19	Insights into Supramolecular Sites Responsible for Complete Separation of Biomass-Derived Phenolics and Glucose in Metal-Organic Framework NU-1000. <i>Langmuir</i> , <b>2017</b> , 33, 4129-4137	4	13
18	Stabilization of Photocatalytically Active Uranyl Species in a Uranyl-Organic Framework for Heterogeneous Alkane Fluorination Driven by Visible Light. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 16795-16798	5.1	12
17	A Hierarchical Nanoporous Diamondoid Superstructure. <i>CheM</i> , <b>2019</b> , 5, 2353-2364	16.2	12
16	Bottom-Up Design and Generation of Complex Structures: A New Twist in Reticular Chemistry. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 449-455	3.5	10
15	Toward a Charged Homo[2]catenane Employing Diazaperopyrenium Homophilic Recognition. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6540-6544	16.4	9
14	Organic Compounds of Actinyls: Systematic Computational Assessment of Structural and Topological Properties in $[AnO(CO)]$ ( $An = U, Np, Pu, Am; n = 1-3$ ) Complexes. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 3425-3434	5.1	8
13	Are you using the right probe molecules for assessing the textural properties of metal-organic frameworks?. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 10, 157-173	13	6

12	N-Heterocyclic carbenes and their precursors in functionalised porous materials. <i>Chemical Society Reviews</i> , <b>2021</b> ,	58.5	6
11	Chemically Engineered Porous Molecular Coatings as Reactive Oxygen Species Generators and Reservoirs for Long-Lasting Self-Cleaning Textiles.. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , e202115956	16.4	5
10	Reticular chemistry approach to explore the catalytic CO <sub>2</sub> -epoxide cycloaddition reaction over tetrahedral coordination Lewis acidic sites in a Rutile-type Zinc-phosphonocarboxylate framework. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131759	14.7	5
9	Discovery of spontaneous de-interpenetration through charged point-point repulsions. <i>Chem</i> , <b>2021</b> ,	16.2	3
8	Micropore environment regulation of zirconium MOFs for instantaneous hydrolysis of an organophosphorus chemical. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100612	6.1	3
7	An Electrically Conductive Tetrathiafulvalene-Based Hydrogen-Bonded Organic Framework <b>2022</b> , 4, 128-135		3
6	Bottom-up construction of mesoporous supramolecular isomers based on a Pd <sub>3</sub> L <sub>6</sub> triangular prism as templates for shape specific aggregation of polyiodide. <i>Nano Research</i> , 1	10	2
5	Self-Recognizing $\pi$ -Stacking Interactions Designed for the Generation of Ultrastable Mesoporous Hydrogen-Bonded Organic Frameworks		2
4	Effect of ionic liquid on sugar-aromatic separation selectivity by metal-organic framework NU-1000 in aqueous solution. <i>Fuel Processing Technology</i> , <b>2020</b> , 197, 106189	7.2	2
3	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks: the Topology as a Platform for Solvent-Assisted Metal Incorporation. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4266-4266 <sup>2,3</sup>	2.3	1
2	Post-synthetic anchoring Fe(III) into a fcu-type Zr-MOF for the catalyzed hydrolysis of 5-hydroxymethoxyfurfural. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 328, 111449	5.3	1
1	Actinyl-Carboxylate Complexes [AnO(COOH) (HO) ] (An = U, Np, Pu, and Am; = 1-3; = 0, 2, 4; 2 + = 6): Electronic Structures, Interaction Features, and the Potential to Adsorbents toward Cs Ion. <i>ACS Omega</i> , <b>2020</b> , 5, 31974-31983	3.9	0