

# Function-led design of new porous materials

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Citation Report

#	ARTICLE	IF	CITATIONS
2	π-Conjugated Microporous Polymer Films: Designed Synthesis, Conducting Properties, and Photoenergy Conversions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13594-13598.	7.2	182
3	Room-temperature Synthesis of a Covalent Organic Framework with Enhanced Surface Area and Thermal Stability and Application to Nitrogen-doped Graphite Synthesis. <i>Chemistry Letters</i> , 2015, 44, 1488-1490.	0.7	23
6	Influence of Solvent-Like Sidechains on the Adsorption of Light Hydrocarbons in Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2015, 21, 18764-18769.	1.7	32
7	Porphyrim Boxes: Rationally Designed Porous Organic Cages. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13241-13244.	7.2	161
8	Boosting Proton Conductivity in Highly Robust 3D Inorganic Cationic Extended Frameworks through Ion Exchange with Dihydrogen Phosphate Anions. <i>Chemistry - A European Journal</i> , 2015, 21, 17591-17595.	1.7	19
9	Reverse Engineering of Conjugated Microporous Polymers: Defect Structures of Tetrakis(4-ethynylphenyl)stannane Networks. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14673-14676.	7.2	20
10	Mechanical Properties of Nanoporous Au: From Empirical Evidence to Phenomenological Modeling. <i>Metals</i> , 2015, 5, 1665-1694.	1.0	10
11	Continuous flow synthesis of a carbon-based molecular cage macrocycle via a three-fold homocoupling reaction. <i>Chemical Communications</i> , 2015, 51, 14231-14234.	2.2	29
12	An ultra-microporous organic polymer for high performance carbon dioxide capture and separation. <i>Chemical Communications</i> , 2015, 51, 13393-13396.	2.2	71
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14	Dynamic flow synthesis of porous organic cages. <i>Chemical Communications</i> , 2015, 51, 17390-17393.	2.2	52
15	Tunable Porosity through Cooperative Diffusion in a Multicomponent Porous Molecular Crystal. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22577-22586.	1.5	15
16	A Suite of Tetraphenylethylene-Based Discrete Organoplatinum(II) Metallacycles: Controllable Structure and Stoichiometry, Aggregation-Induced Emission, and Nitroaromatics Sensing. <i>Journal of the American Chemical Society</i> , 2015, 137, 15276-15286.	6.6	260
17	Liquefied molecular holes. <i>Nature</i> , 2015, 527, 174-175.	13.7	35
18	Robust C-C bonded porous networks with chemically designed functionalities for improved CO <sub>2</sub> capture from flue gas. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2274-2279.	1.3	12
19	Hydroxy-functionalized hyper-cross-linked ultra-microporous organic polymers for selective CO <sub>2</sub> capture at room temperature. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1981-1986.	1.3	14
20	Solid-State Gas Sensors: Sensor System Challenges in the Civil Security Domain. <i>Materials</i> , 2016, 9, 65.	1.3	13
21	Anion-Directed Entangling Coordination Networks: Luminescence Sensing and Magnetic Properties. <i>ChemPlusChem</i> , 2016, 81, 857-863.	1.3	11

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22	The Dam Bursts for Porous Liquids. <i>Advanced Materials</i> , 2016, 28, 5712-5716.	11.1	88
23	Molecular Engineering of Conjugated Polybenzothiadiazoles for Enhanced Hydrogen Production by Photosynthesis. <i>Angewandte Chemie</i> , 2016, 128, 9348-9352.	1.6	70
24	Porous Organic Polymer Films with Tunable Work Functions and Selective Hole and Electron Flows for Energy Conversions. <i>Angewandte Chemie</i> , 2016, 128, 3101-3105.	1.6	25
25	Porous Organic Polymer Films with Tunable Work Functions and Selective Hole and Electron Flows for Energy Conversions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3049-3053.	7.2	121
26	Molecular Engineering of Conjugated Polybenzothiadiazoles for Enhanced Hydrogen Production by Photosynthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9202-9206.	7.2	326
27	Watchband-Like Supercapacitors with Body Temperature Inducible Shape Memory Ability. <i>Advanced Energy Materials</i> , 2016, 6, 1600763.	10.2	94
28	Pore size tuning of poly(styrene-co-vinylbenzyl chloride-co-divinylbenzene) hypercrosslinked polymers: Insights from molecular simulations. <i>Polymer</i> , 2016, 99, 173-184.	1.8	33
29	A Solvent-Free Hot-Pressing Method for Preparing Metal-Organic Framework Coatings. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3419-3423.	7.2	201
30	An ultra-tunable platform for molecular engineering of high-performance crystalline porous materials. <i>Nature Communications</i> , 2016, 7, 13645.	5.8	205
31	Separation in Biorefineries by Liquid Phase Adsorption: Itaconic Acid as Case Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5921-5928.	3.2	34
32	The Synthesis of Organic Molecules of Intrinsic Microporosity Designed to Frustrate Efficient Molecular Packing. <i>Chemistry - A European Journal</i> , 2016, 22, 2466-2472.	1.7	49
33	Macrocyclic Tetraamines: Synthesis and Reversible Uptake of Diethyl Phthalate by a Porous Macrocyclic. <i>Journal of Organic Chemistry</i> , 2016, 81, 5173-5180.	1.7	10
34	Observation of the wrapping mechanism in amine carbon dioxide molecular interactions on heterogeneous sorbents. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14177-14181.	1.3	42
35	A versatile in situ etching-growth strategy for synthesis of yolk-shell structured periodic mesoporous organosilica nanocomposites. <i>RSC Advances</i> , 2016, 6, 51470-51479.	1.7	16
36	Outlook and challenges for hydrogen storage in nanoporous materials. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	129
37	Photonic hybrid crystals constructed from in situ host-guest nanoconfinement of a light-emitting complex in metal-organic framework pores. <i>Nanoscale</i> , 2016, 8, 6851-6859.	2.8	36
38	Modifiable diyne-based covalent organic framework: a versatile platform for in situ multipurpose functionalization. <i>RSC Advances</i> , 2016, 6, 39150-39158.	1.7	31
39	Four New Metal-Organic Supramolecular Networks Based on Aromatic Acid and Flexible Bis(imidazole) Ligand: Synthesis, Structures and Luminescent Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 648-659.	1.9	10

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41	Cationic Covalent Organic Frameworks: A Simple Platform of Anionic Exchange for Porosity Tuning and Proton Conduction. <i>Journal of the American Chemical Society</i> , 2016, 138, 5897-5903.	6.6	613
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47	From brittle to ductile: a structure dependent ductility of diamond nanothread. <i>Nanoscale</i> , 2016, 8, 11177-11184.	2.8	84
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49	Super-adsorbent material based on functional polymer particles with a multilevel porous structure. <i>NPG Asia Materials</i> , 2016, 8, e301-e301.	3.8	98
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57	Periphery-Functionalized Porous Organic Cages. <i>Chemistry - A European Journal</i> , 2016, 22, 16547-16553.	1.7	38

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59	Reversible Water-Induced Structural and Magnetic Transformations and Selective Water Adsorption Properties of Poly(manganese 1,1-ferrocenediyl-bis(H-phosphinate)). <i>Crystal Growth and Design</i> , 2016, 16, 5084-5090.	1.4	34
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61	A hydroxyl-functionalized microporous organic polymer for capture and catalytic conversion of CO <sub>2</sub> . <i>RSC Advances</i> , 2016, 6, 76957-76963.	1.7	17
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79	A stable room-temperature sodium-sulfur battery. <i>Nature Communications</i> , 2016, 7, 11722.	5.8	459
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87	Three-dimensional protonic conductivity in porous organic cage solids. <i>Nature Communications</i> , 2016, 7, 12750.	5.8	133
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1010	Three layered cucurbit[6]uril-based metalâ€organic rotaxane networks functionalized by sulfonic groups for proton conduction. <i>Dalton Transactions</i> , 2022, 51, 12225-12231.	1.6	5
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1015	Low-velocity impact analysis of functionally graded porous circular plate reinforced with graphene platelets. <i>Waves in Random and Complex Media</i> , 0, , 1-27.	1.6	9
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1018	A General Route to Flame Aerosol Synthesis and in situ Functionalization of Mesoporous Silica. <i>Angewandte Chemie</i> , 0, , .	1.6	1
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