Michael Briggs

List of Publications by Year
in descending order

45 papers	3,391 citations	172457 29 h-index	214800 47 g-index
51 all docs	51 docs citations	51 times ranked	4256 citing authors

#	Article	IF	Citations
1	A smart and responsive crystalline porous organic cage membrane with switchable pore apertures for graded molecular sieving. Nature Materials, 2022, 21, 463-470.	27.5	108
2	Materials Precursor Score: Modeling Chemistsâ€™ Intuition for the Synthetic Accessibility of Porous Organic Cage Precursors. Journal of Chemical Information and Modeling, 2021, 61, 4342-4356.	5.4	14
3	Modular Type III Porous Liquids Based on Porous Organic Cage Microparticles. Advanced Functional Materials, 2021, 31, 2106116.	14.9	26
4	Continuous and scalable synthesis of a porous organic cage by twin screw extrusion (TSE). Chemical Science, 2020, 11, 6582-6589.	7.4	30
5	Controlling Gas Selectivity in Molecular Porous Liquids by Tuning the Cage Window Size. Angewandte Chemie - International Edition, 2020, 59, 7362-7366.	13.8	69
6	Controlling Gas Selectivity in Molecular Porous Liquids by Tuning the Cage Window Size. Angewandte Chemie, 2020, 132, 7432-7436.	2.0	25
7	From Concept to Crystals via Prediction: Multiâ€Component Organic Cage Pots by Social Selfâ€Sorting. Angewandte Chemie, 2019, 131, 16421-16427.	2.0	23
8	From Concept to Crystals via Prediction: Multiâ€Component Organic Cage Pots by Social Selfâ€Sorting. Angewandte Chemie - International Edition, 2019, 58, 16275-16281.	13.8	52
9	Accelerated robotic discovery of type II porous liquids. Chemical Science, 2019, 10, 9454-9465.	7.4	70
10	Post-synthetic fluorination of Scholl-coupled microporous polymers for increased CO₂ uptake and selectivity. Journal of Materials Chemistry A, 2019, 7, 549-557.	10.3	41
11	Synthesis of a Large, Shape-Flexible, Solvatomorphic Porous Organic Cage. Crystal Growth and Design, 2019, 19, 3647-3651.	3.0	21
12	Efficient separation of propane and propene by a hypercrosslinked polymer doped with Ag(<scp>i</scp>). Journal of Materials Chemistry A, 2019, 7, 25521-25525.	10.3	21
13	Cage Doubling: Solvent-Mediated Re-equilibration of a [3 + 6] Prismatic Organic Cage to a Large [6 + 12] Truncated Tetrahedron. Crystal Growth and Design, 2018, 18, 2759-2764.	3.0	34
14	Controlling electric double-layer capacitance and pseudocapacitance in heteroatom-doped carbons derived from hypercrosslinked microporous polymers. Nano Energy, 2018, 46, 277-289.	16.0	317
15	A solution-processable dissymmetric porous organic cage. Molecular Systems Design and Engineering, 2018, 3, 223-227.	3.4	26
16	Investigating the breakdown of the nerve agent simulant methyl paraoxon and chemical warfare agents GB and VX using nitrogen containing bases. Organic and Biomolecular Chemistry, 2018, 16, 9285-9291.	2.8	32
17	Computationally-inspired discovery of an unsymmetrical porous organic cage. Nanoscale, 2018, 10, 22381-22388.	5.6	34
18	Covalent and electrostatic incorporation of amines into hypercrosslinked polymers for increased CO₂ selectivity. Journal of Polymer Science Part A, 2018, 56, 2513-2521.	2.3	9

#	Article	IF	Citations
19	1,3-Diyne-Linked Conjugated Microporous Polymer for Selective CO₂ Capture. Industrial & Engineering Chemistry Research, 2018, 57, 9254-9260.	3.7	23
20	High-throughput discovery of organic cages and catenanes using computational screening fused with robotic synthesis. Nature Communications, 2018, 9, 2849.	12.8	131
21	Understanding gas capacity, guest selectivity, and diffusion in porous liquids. Chemical Science, 2017, 8, 2640-2651.	7.4	115
22	Swellable functional hypercrosslinked polymer networks for the uptake of chemical warfare agents. Polymer Chemistry, 2017, 8, 1914-1922.	3.9	44
23	Pyreneâ€cored covalent organic polymers by thiopheneâ€based isomers, their gas adsorption, and photophysical properties. Journal of Polymer Science Part A, 2017, 55, 2383-2389.	2.3	18
24	Chirality as a tool for function in porous organic cages. Nanoscale, 2017, 9, 6783-6790.	5.6	31
25	Computationally-Guided Synthetic Control over Pore Size in Isostructural Porous Organic Cages. ACS Central Science, 2017, 3, 734-742.	11.3	68
26	Modular assembly of porous organic cage crystals: isoreticular quasiracemates and ternary co-crystal. CrystEngComm, 2017, 19, 4933-4941.	2.6	18
27	Dual-stimuli responsive injectable microgel/solid drug nanoparticle nanocomposites for release of poorly soluble drugs. Nanoscale, 2017, 9, 6302-6314.	5.6	32
28	Ultraâ€Fast Molecular Rotors within Porous Organic Cages. Chemistry - A European Journal, 2017, 23, 17217-17221.	3.3	22
29	A Perspective on the Synthesis, Purification, and Characterization of Porous Organic Cages. Chemistry of Materials, 2017, 29, 149-157.	6.7	96
30	Functional porous composites by blending with solution-processable molecular pores. Chemical Communications, 2016, 52, 6895-6898.	4.1	25
31	Porosity-engineered carbons for supercapacitive energy storage using conjugated microporous polymer precursors. Journal of Materials Chemistry A, 2016, 4, 7665-7673.	10.3	126
32	Peripheryâ€Functionalized Porous Organic Cages. Chemistry - A European Journal, 2016, 22, 16547-16553.	3.3	38
33	Hyperporous Carbons from Hypercrosslinked Polymers. Advanced Materials, 2016, 28, 9804-9810.	21.0	201
34	Spongeâ€Like Behaviour in Isoreticular Cu(Glyâ€Hisâ€X) Peptideâ€Based Porous Materials. Chemistry - A European Journal, 2015, 21, 16027-16034.	3.3	36
35	Trapping virtual pores by crystal retro-engineering. Nature Chemistry, 2015, 7, 153-159.	13.6	52
36	Porous Organic Cages for Gas Chromatography Separations. Chemistry of Materials, 2015, 27, 3207-3210.	6.7	169

#	Article	IF	Citations
37	Dynamic flow synthesis of porous organic cages. Chemical Communications, 2015, 51, 17390-17393.	4.1	52
38	Chemical and Structural Stability of Zirconiumâ€based Metalâ€“Organic Frameworks with Large Threeâ€Dimensional Pores by Linker Engineering. Angewandte Chemie - International Edition, 2015, 54, 221-226.	13.8	141
39	Side-chain control of porosity closure in single- and multiple-peptide-based porous materials by cooperative folding. Nature Chemistry, 2014, 6, 343-351.	13.6	124
40	Shape Selectivity by Guestâ€Driven Restructuring of a Porous Material. Angewandte Chemie - International Edition, 2014, 53, 4592-4596.	13.8	98
41	Separation of rare gases and chiral molecules by selective binding in porous organic cages. Nature Materials, 2014, 13, 954-960.	27.5	532
42	Shape Prediction for Supramolecular Organic Nanostructures: [4 + 4] Macrocyclic Tetrapods. Crystal Growth and Design, 2013, 13, 4993-5000.	3.0	38
43	Supramolecular Engineering of Intrinsic and Extrinsic Porosity in Covalent Organic Cages. Journal of the American Chemical Society, 2011, 133, 16566-16571.	13.7	146
44	A New Radical-Ionic Allylation Sequence. Synlett, 2005, 2005, 334-336.	1.8	3
45	A new approach to the synthesis of polycyclic structures. Tetrahedron Letters, 2004, 45, 6017-6020.	1.4	23