

# Michael Briggs

## List of Publications by Year in descending order

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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	Separation of rare gases and chiral molecules by selective binding in porous organic cages. <i>Nature Materials</i> , 2014, 13, 954-960.	27.5	532
2	Controlling electric double-layer capacitance and pseudocapacitance in heteroatom-doped carbons derived from hypercrosslinked microporous polymers. <i>Nano Energy</i> , 2018, 46, 277-289.	16.0	317
3	Hyperporous Carbons from Hypercrosslinked Polymers. <i>Advanced Materials</i> , 2016, 28, 9804-9810.	21.0	201
4	Porous Organic Cages for Gas Chromatography Separations. <i>Chemistry of Materials</i> , 2015, 27, 3207-3210.	6.7	169
5	Supramolecular Engineering of Intrinsic and Extrinsic Porosity in Covalent Organic Cages. <i>Journal of the American Chemical Society</i> , 2011, 133, 16566-16571.	13.7	146
6	Chemical and Structural Stability of Zirconium-based Metal-Organic Frameworks with Large Three-Dimensional Pores by Linker Engineering. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 221-226.	13.8	141
7	High-throughput discovery of organic cages and catenanes using computational screening fused with robotic synthesis. <i>Nature Communications</i> , 2018, 9, 2849.	12.8	131
8	Porosity-engineered carbons for supercapacitive energy storage using conjugated microporous polymer precursors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7665-7673.	10.3	126
9	Side-chain control of porosity closure in single- and multiple-peptide-based porous materials by cooperative folding. <i>Nature Chemistry</i> , 2014, 6, 343-351.	13.6	124
10	Understanding gas capacity, guest selectivity, and diffusion in porous liquids. <i>Chemical Science</i> , 2017, 8, 2640-2651.	7.4	115
11	A smart and responsive crystalline porous organic cage membrane with switchable pore apertures for graded molecular sieving. <i>Nature Materials</i> , 2022, 21, 463-470.	27.5	108
12	Shape Selectivity by Guest-Driven Restructuring of a Porous Material. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4592-4596.	13.8	98
13	A Perspective on the Synthesis, Purification, and Characterization of Porous Organic Cages. <i>Chemistry of Materials</i> , 2017, 29, 149-157.	6.7	96
14	Accelerated robotic discovery of type II porous liquids. <i>Chemical Science</i> , 2019, 10, 9454-9465.	7.4	70
15	Controlling Gas Selectivity in Molecular Porous Liquids by Tuning the Cage Window Size. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7362-7366.	13.8	69
16	Computationally-Guided Synthetic Control over Pore Size in Isostructural Porous Organic Cages. <i>ACS Central Science</i> , 2017, 3, 734-742.	11.3	68
17	Trapping virtual pores by crystal retro-engineering. <i>Nature Chemistry</i> , 2015, 7, 153-159.	13.6	52
18	Dynamic flow synthesis of porous organic cages. <i>Chemical Communications</i> , 2015, 51, 17390-17393.	4.1	52

#	ARTICLE	IF	CITATIONS
19	From Concept to Crystals via Prediction: Multi-Component Organic Cage Pots by Social Self-Sorting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16275-16281.	13.8	52
20	Swellable functional hypercrosslinked polymer networks for the uptake of chemical warfare agents. <i>Polymer Chemistry</i> , 2017, 8, 1914-1922.	3.9	44
21	Post-synthetic fluorination of Scholl-coupled microporous polymers for increased CO <sub>2</sub> uptake and selectivity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 549-557.	10.3	41
22	Shape Prediction for Supramolecular Organic Nanostructures: [4 + 4] Macrocyclic Tetrapods. <i>Crystal Growth and Design</i> , 2013, 13, 4993-5000.	3.0	38
23	Periphery-Functionalized Porous Organic Cages. <i>Chemistry - A European Journal</i> , 2016, 22, 16547-16553.	3.3	38
24	Sponge-Like Behaviour in Isoreticular Cu(Gly-His) Peptide-Based Porous Materials. <i>Chemistry - A European Journal</i> , 2015, 21, 16027-16034.	3.3	36
25	Cage Doubling: Solvent-Mediated Re-equilibration of a [3 + 6] Prismatic Organic Cage to a Large [6 + 12] Truncated Tetrahedron. <i>Crystal Growth and Design</i> , 2018, 18, 2759-2764.	3.0	34
26	Computationally-inspired discovery of an unsymmetrical porous organic cage. <i>Nanoscale</i> , 2018, 10, 22381-22388.	5.6	34
27	Dual-stimuli responsive injectable microgel/solid drug nanoparticle nanocomposites for release of poorly soluble drugs. <i>Nanoscale</i> , 2017, 9, 6302-6314.	5.6	32
28	Investigating the breakdown of the nerve agent simulant methyl paraoxon and chemical warfare agents GB and VX using nitrogen containing bases. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 9285-9291.	2.8	32
29	Chirality as a tool for function in porous organic cages. <i>Nanoscale</i> , 2017, 9, 6783-6790.	5.6	31
30	Continuous and scalable synthesis of a porous organic cage by twin screw extrusion (TSE). <i>Chemical Science</i> , 2020, 11, 6582-6589.	7.4	30
31	A solution-processable dissymmetric porous organic cage. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 223-227.	3.4	26
32	Modular Type III Porous Liquids Based on Porous Organic Cage Microparticles. <i>Advanced Functional Materials</i> , 2021, 31, 2106116.	14.9	26
33	Functional porous composites by blending with solution-processable molecular pores. <i>Chemical Communications</i> , 2016, 52, 6895-6898.	4.1	25
34	Controlling Gas Selectivity in Molecular Porous Liquids by Tuning the Cage Window Size. <i>Angewandte Chemie</i> , 2020, 132, 7432-7436.	2.0	25
35	A new approach to the synthesis of polycyclic structures. <i>Tetrahedron Letters</i> , 2004, 45, 6017-6020.	1.4	23
36	1,3-Diyne-Linked Conjugated Microporous Polymer for Selective CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9254-9260.	3.7	23

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37	From Concept to Crystals via Prediction: Multi-Component Organic Cage Pots by Social Self-Sorting. <i>Angewandte Chemie</i> , 2019, 131, 16421-16427.	2.0	23
38	Ultra-Fast Molecular Rotors within Porous Organic Cages. <i>Chemistry - A European Journal</i> , 2017, 23, 17217-17221.	3.3	22
39	Synthesis of a Large, Shape-Flexible, Solvatomorphic Porous Organic Cage. <i>Crystal Growth and Design</i> , 2019, 19, 3647-3651.	3.0	21
40	Efficient separation of propane and propene by a hypercrosslinked polymer doped with Ag( $\text{SCN}$ ). <i>Journal of Materials Chemistry A</i> , 2019, 7, 25521-25525.	10.3	21
41	Pyrene-cored covalent organic polymers by thiophene-based isomers, their gas adsorption, and photophysical properties. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2383-2389.	2.3	18
42	Modular assembly of porous organic cage crystals: isorecticular quasiracemates and ternary co-crystal. <i>CrystEngComm</i> , 2017, 19, 4933-4941.	2.6	18
43	Materials Precursor Score: Modeling Chemists' Intuition for the Synthetic Accessibility of Porous Organic Cage Precursors. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 4342-4356.	5.4	14
44	Covalent and electrostatic incorporation of amines into hypercrosslinked polymers for increased $\text{CO}_2$ selectivity. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2513-2521.	2.3	9
45	A New Radical-Ionic Allylation Sequence. <i>Synlett</i> , 2005, 2005, 334-336.	1.8	3