Rob Clowes

List of Publications by Year
in descending order

61	8,177	38	61
papers	citations	h-index	g-index

87888 123424

65	65	65	7947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Porous organic cages. Nature Materials, 2009, 8, 973-978.	27.5	984
2	Sulfone-containing covalent organic frameworks for photocatalytic hydrogen evolution from water. Nature Chemistry, 2018, 10, 1180-1189.	13.6	883
3	A mobile robotic chemist. Nature, 2020, 583, 237-241.	27.8	645
4	Visibleâ€Lightâ€Driven Hydrogen Evolution Using Planarized Conjugated Polymer Photocatalysts. Angewandte Chemie - International Edition, 2016, 55, 1792-1796.	13.8	372
5	Functionalized Conjugated Microporous Polymers. Macromolecules, 2009, 42, 8809-8816.	4.8	352
6	Rapid Microwave Synthesis and Purification of Porous Covalent Organic Frameworks. Chemistry of Materials, 2009, 21, 204-206.	6.7	350
7	Functional materials discovery using energyâ€"structureâ€"function maps. Nature, 2017, 543, 657-664.	27.8	348
8	Metalâ€"Organic Conjugated Microporous Polymers. Angewandte Chemie - International Edition, 2011, 50, 1072-1075.	13.8	318
9	Hypercrosslinked organic polymer networks as potential adsorbents for pre-combustion CO2 capture. Journal of Materials Chemistry, 2011, 21, 5475.	6.7	302
10	A stable covalent organic framework for photocatalytic carbon dioxide reduction. Chemical Science, 2020, 11, 543-550.	7.4	265
11	Barely porous organic cages for hydrogen isotope separation. Science, 2019, 366, 613-620.	12.6	210
12	Porous Organic Cages for Sulfur Hexafluoride Separation. Journal of the American Chemical Society, 2016, 138, 1653-1659.	13.7	200
13	Extended conjugated microporous polymers for photocatalytic hydrogen evolution from water. Chemical Communications, 2016, 52, 10008-10011.	4.1	175
14	3D Cage COFs: A Dynamic Three-Dimensional Covalent Organic Framework with High-Connectivity Organic Cage Nodes. Journal of the American Chemical Society, 2020, 142, 16842-16848.	13.7	174
15	Accelerated Synthesis and Discovery of Covalent Organic Framework Photocatalysts for Hydrogen Peroxide Production. Journal of the American Chemical Society, 2022, 144, 9902-9909.	13.7	154
16	High surface area amorphous microporous poly(aryleneethynylene) networks using tetrahedral carbon- and silicon-centred monomers. Chemical Communications, 2009, , 212-214.	4.1	152
17	Silica SOS@HKUST-1 composite microspheres as easily packed stationary phases for fast separation. Journal of Materials Chemistry A, 2013, 1, 3276.	10.3	140
18	Palladium Nanoparticle Incorporation in Conjugated Microporous Polymers by Supercritical Fluid Processing. Chemistry of Materials, 2010, 22, 557-564.	6.7	128

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19	Study of the mechanochemical formation and resulting properties of an archetypal MOF: Cu3(BTC)2 (BTC = 1,3,5-benzenetricarboxylate). CrystEngComm, 2010, 12, 4063.	2.6	123
20	High Surface Area Contorted Conjugated Microporous Polymers Based on Spiro-Bipropylenedioxythiophene. Macromolecules, 2010, 43, 7577-7582.	4.8	112
21	Structurally Diverse Covalent Triazine-Based Framework Materials for Photocatalytic Hydrogen Evolution from Water. Chemistry of Materials, 2019, 31, 8830-8838.	6.7	111
22	Branching out with aminals: microporous organic polymers from difunctional monomers. Polymer Chemistry, 2012, 3, 533-537.	3.9	92
23	Using sound to synthesize covalent organic frameworks in water. , 2022, 1, 87-95.		92
24	Nitrogen Containing Linear Poly(phenylene) Derivatives for Photo-catalytic Hydrogen Evolution from Water. Chemistry of Materials, 2018, 30, 5733-5742.	6.7	88
25	A Soft Porous Organic Cage Crystal with Complex Gas Sorption Behavior. Chemistry - A European Journal, 2011, 17, 10235-10240.	3.3	85
26	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	21.0	82
27	Macroporous metalâ€"organic framework microparticles with improved liquid phase separation. Journal of Materials Chemistry A, 2014, 2, 9085-9090.	10.3	77
28	A Pyrene-4,5,9,10-Tetraone-Based Covalent Organic Framework Delivers High Specific Capacity as a Li-Ion Positive Electrode. Journal of the American Chemical Society, 2022, 144, 9434-9442.	13.7	77
29	Integrated Covalent Organic Framework/Carbon Nanotube Composite as Liâ€Ion Positive Electrode with Ultraâ€High Rate Performance. Advanced Energy Materials, 2021, 11, 2101880.	19.5	73
30	An Expandable Hydrogen-Bonded Organic Framework Characterized by Three-Dimensional Electron Diffraction. Journal of the American Chemical Society, 2020, 142, 12743-12750.	13.7	70
31	Controlling Gas Selectivity in Molecular Porous Liquids by Tuning the Cage Window Size. Angewandte Chemie - International Edition, 2020, 59, 7362-7366.	13.8	69
32	Computationally-Guided Synthetic Control over Pore Size in Isostructural Porous Organic Cages. ACS Central Science, 2017, 3, 734-742.	11.3	68
33	Network formation mechanisms in conjugated microporous polymers. Polymer Chemistry, 2014, 5, 6325-6333.	3.9	61
34	Hierarchical porous metalâ€"organic framework monoliths. Chemical Communications, 2014, 50, 14314-14316.	4.1	60
35	Computational Screening of Porous Organic Molecules for Xenon/Krypton Separation. Journal of Physical Chemistry C, 2017, 121, 15211-15222.	3.1	45
36	Coreâ€"Shell Crystals of Porous Organic Cages. Angewandte Chemie - International Edition, 2018, 57, 11228-11232.	13.8	45

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37	Photocatalytic proton reduction by a computationally identified, molecular hydrogen-bonded framework. Journal of Materials Chemistry A, 2020, 8, 7158-7170.	10.3	45
38	Synthesis of Uniform Porous Silica Microspheres with Hydrophilic Polymer as Stabilizing Agent. Industrial & Engineering Chemistry Research, 2010, 49, 602-608.	3.7	43
39	A Chiral, Selfâ€Catenating and Porous Metalâ€“Organic Framework and its Postâ€Synthetic Metal Uptake. Angewandte Chemie - International Edition, 2012, 51, 5192-5195.	13.8	42
40	Photocatalytic polymers of intrinsic microporosity for hydrogen production from water. Journal of Materials Chemistry A, 2021, 9, 19958-19964.	10.3	36
41	Aligned macroporous monoliths with intrinsic microporosity via a frozen-solvent-templating approach. Chemical Communications, 2015, 51, 1717-1720.	4.1	34
42	Computationally-inspired discovery of an unsymmetrical porous organic cage. Nanoscale, 2018, 10, 22381-22388.	5.6	34
43	Controlling Photocatalytic Activity by Selfâ€Assembly â€“ Tuning Perylene Bisimide Photocatalysts for the Hydrogen Evolution Reaction. Advanced Energy Materials, 2020, 10, 2002469.	19.5	33
44	Hierarchically porous silica monoliths with tuneable morphology, porosity, and mechanical stability. Journal of Materials Chemistry, 2011, 21, 5753.	6.7	30
45	Modular Type III Porous Liquids Based on Porous Organic Cage Microparticles. Advanced Functional Materials, 2021, 31, 2106116.	14.9	26
46	Controlling Gas Selectivity in Molecular Porous Liquids by Tuning the Cage Window Size. Angewandte Chemie, 2020, 132, 7432-7436.	2.0	25
47	1,3-Diyne-Linked Conjugated Microporous Polymer for Selective CO₂ Capture. Industrial & Engineering Chemistry Research, 2018, 57, 9254-9260.	3.7	23
48	Synthesis of a Large, Shape-Flexible, Solvatomorphic Porous Organic Cage. Crystal Growth and Design, 2019, 19, 3647-3651.	3.0	21
49	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
50	Metalâ€“organic conjugated microporous polymer containing a carbon dioxide reduction electrocatalyst. Sustainable Energy and Fuels, 2019, 3, 2990-2994.	4.9	16
51	Melt-quenched porous organic cage glasses. Journal of Materials Chemistry A, 2021, 9, 19807-19816.	10.3	15
52	Coreâ€“Shell Crystals of Porous Organic Cages. Angewandte Chemie, 2018, 130, 11398-11402.	2.0	14
53	Hydrogen Isotope Separation Using a Metalâ€“Organic Cage Built from Macrocycles. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
54	Porous silica spheres in macroporous structures and on nanofibres. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4351-4370.	3.4	12

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55	Creating porosity in a trianglimine macrocycle by heterochiral pairing. Chemical Communications, 2021, 57, 6141-6144.	4.1	12
56	Bisâ€Calix[4]arenes: From Ligand Design to the Directed Assembly of a Metalâ€"Organic Trigonal Antiprism. Chemistry - A European Journal, 2016, 22, 8791-8795.	3.3	9
57	Aromatic polymers made by reductive polydehalogenation of oligocyclic monomers as conjugated polymers of intrinsic microporosity (C-PIMs). Polymer Chemistry, 2019, 10, 5200-5205.	3.9	7
58	Inherent Ethyl Acetate Selectivity in a Trianglimine Molecular Solid. Chemistry - A European Journal, 2021, 27, 10589-10594.	3.3	6
59	Complex Phase Behaviour and Structural Transformations of Metalâ€Organic Frameworks with Mixed Rigid and Flexible Bridging Ligands. Chemistry - A European Journal, 2019, 25, 1353-1362.	3.3	2
60	Hydrogen isotope separation using a metalâ€organic cage built from macrocycles. Angewandte Chemie, 0, , .	2.0	2
61	Innentitelbild: Core-Shell Crystals of Porous Organic Cages (Angew. Chem. 35/2018). Angewandte Chemie, 2018, 130, 11250-11250.	2.0	0