Robert Dawson

List of Publications by Year
in descending order

39 papers	6,161 citations	201674 27 h-index	330143 37 g-index
43 all docs	43 docs citations	43 times ranked	5555 citing authors

#	Article	IF	Citations
1	A Pressure Swing Approach to Selective CO2 Sequestration Using Functionalized Hypercrosslinked Polymers. Materials, 2021, 14, 1605.	2.9	3
2	Acid Functionalized Conjugated Microporous Polymers as a Reusable Catalyst for Biodiesel Production. ACS Applied Polymer Materials, 2020, 2, 3908-3915.	4.4	18
3	Efficient and Tunable Whiteâ€Light Emission Using a Dispersible Porous Polymer. Macromolecular Rapid Communications, 2020, 41, 2000176.	3.9	1
4	Development of a Combined Leaching and Ion-Exchange System for Valorisation of Spent Potlining Waste. Waste and Biomass Valorization, 2020, 11, 5467-5481.	3.4	7
5	Porous Silica-Pillared MXenes with Controllable Interlayer Distances for Long-Life Na-Ion Batteries. Langmuir, 2020, 36, 4370-4382.	3.5	30
6	Single metal isotherm study of the ion exchange removal of Cu(II), Fe(II), Pb(II) and Zn(II) from synthetic acetic acid leachate. Chemical Engineering Journal, 2020, 394, 124862.	12.7	61
7	Calcium-loaded hydrophilic hypercrosslinked polymers for extremely high defluoridation capacity via multiple uptake mechanisms. Journal of Materials Chemistry A, 2020, 8, 7130-7144.	10.3	16
8	Synthesis of porous polymer-based metalâ€“organic frameworks monolithic hybrid composite for hydrogen storage application. Journal of Materials Science, 2019, 54, 7078-7086.	3.7	25
9	Selective Environmental Remediation of Strontium and Cesium Using Sulfonated Hyper-Cross-Linked Polymers (SHCPs). ACS Applied Materials & Interfaces, 2019, 11, 22464-22473.	8.0	76
10	Dispersible microporous diblock copolymer nanoparticles via polymerisation-induced self-assembly. Polymer Chemistry, 2019, 10, 3879-3886.	3.9	7
11	Ion exchange removal of Cu(II), Fe(II), Pb(II) and Zn(II) from acid extracted sewage sludge â€“ Resin screening in weak acid media. Water Research, 2019, 158, 257-267.	11.3	116
12	Towards the implementation of an ion-exchange system for recovery of fluoride commodity chemicals. Kinetic and dynamic studies. Chemical Engineering Journal, 2019, 367, 149-159.	12.7	32
13	Mechanical characterisation of polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. Journal of Materials Science, 2017, 52, 3862-3875.	3.7	51
14	Trends and challenges for microporous polymers. Chemical Society Reviews, 2017, 46, 3302-3321.	38.1	386
15	Highly selective CO₂vs. N₂ adsorption in the cavity of a molecular coordination cage. Chemical Communications, 2017, 53, 4398-4401.	4.1	25
16	Chapter 7. Conjugated Microporous Polymers. Monographs in Supramolecular Chemistry, 2015, , 155-185.	0.2	4
17	â€˜Dry basesâ€™: carbon dioxide capture using alkaline dry water. Energy and Environmental Science, 2014, 7, 1786-1791.	30.8	42
18	Network formation mechanisms in conjugated microporous polymers. Polymer Chemistry, 2014, 5, 6325-6333.	3.9	61

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19	Microporous Thioxanthone Polymers as Heterogeneous Photoinitiators for Visible Light Induced Free Radical and Cationic Polymerizations. Macromolecules, 2014, 47, 4607-4614.	4.8	109
20	Cationic microporous polymer networks by polymerisation of weakly coordinating cations with CO₂-storage ability. Journal of Materials Chemistry A, 2014, 2, 11825-11829.	10.3	81
21	Swellable, Water- and Acid-Tolerant Polymer Sponges for Chemoselective Carbon Dioxide Capture. Journal of the American Chemical Society, 2014, 136, 9028-9035.	13.7	201
22	Post-synthetic modification of conjugated microporous polymers. Polymer, 2014, 55, 321-325.	3.8	100
23	Low band-gap benzothiadiazole conjugated microporous polymers. Polymer Chemistry, 2013, 4, 5585.	3.9	66
24	Chemical functionalization strategies for carbon dioxide capture in microporous organic polymers. Polymer International, 2013, 62, 345-352.	3.1	267
25	Functional conjugated microporous polymers: from 1,3,5-benzene to 1,3,5-triazine. Polymer Chemistry, 2012, 3, 928.	3.9	191
26	Impact of Water Coadsorption for Carbon Dioxide Capture in Microporous Polymer Sorbents. Journal of the American Chemical Society, 2012, 134, 10741-10744.	13.7	259
27	Materials challenges for the development of solid sorbents for post-combustion carbon capture. Journal of Materials Chemistry, 2012, 22, 2815-2823.	6.7	255
28	Branching out with aminals: microporous organic polymers from difunctional monomers. Polymer Chemistry, 2012, 3, 533-537.	3.9	92
29	Step Change Adsorbents and Processes for CO2 Capture â€œSTEPCAP. , 2012, , 30-37.		3
30	Microporous copolymers for increased gas selectivity. Polymer Chemistry, 2012, 3, 2034.	3.9	140
31	Porous, Fluorescent, Covalent Triazineâ€Based Frameworks Via Roomâ€Temperature and Microwaveâ€Assisted Synthesis. Advanced Materials, 2012, 24, 2357-2361.	21.0	636
32	Nanoporous organic polymer networks. Progress in Polymer Science, 2012, 37, 530-563.	24.7	1,029
33	Chemical tuning of CO2 sorption in robust nanoporous organic polymers. Chemical Science, 2011, 2, 1173.	7.4	532
34	Selective gas sorption in a [2+3] â€˜propellerâ€™ cage crystal. Chemical Communications, 2011, 47, 8919.	4.1	67
35	Microporous organic polymers for carbon dioxide capture. Energy and Environmental Science, 2011, 4, 4239.	30.8	553
36	High Surface Area Conjugated Microporous Polymers: The Importance of Reaction Solvent Choice. Macromolecules, 2010, 43, 8524-8530.	4.8	195

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37	Functionalized Conjugated Microporous Polymers. Macromolecules, 2009, 42, 8809-8816.	4.8	352
38	Mesoporous Poly(phenylenevinylene) Networks. Macromolecules, 2008, 41, 1591-1593.	4.8	68
39	Heterogenisation of a carbonylation catalyst on dispersible microporous polymer nanoparticles. Catalysis Science and Technology, 0, , .	4.1	2