Robert Dawson

List of Publications by Year in Descending Order

37 papers	5,213 citations	26 h-index	43 g-index
43 ext. papers	5,691 ext. citations	10.8 avg, IF	5.85 L-index

#	Paper	IF	Citations
37	A Pressure Swing Approach to Selective CO Sequestration Using Functionalized Hypercrosslinked Polymers. *Materials*, **2021**, 14,	3.5	1
36	Efficient and Tunable White-Light Emission Using a Dispersible Porous Polymer. *Macromolecular Rapid Communications*, **2020**, 41, e2000176	4.8	1
35	Development of a Combined Leaching and Ion-Exchange System for Valorisation of Spent Potlining Waste. *Waste and Biomass Valorization*, **2020**, 11, 5467-5481	3.2	2
34	Porous Silica-Pillared MXenes with Controllable Interlayer Distances for Long-Life Na-Ion Batteries. *Langmuir*, **2020**, 36, 4370-4382	4	18
33	Calcium-loaded hydrophilic hypercrosslinked polymers for extremely high defluoridation capacity via multiple uptake mechanisms. *Journal of Materials Chemistry A*, **2020**, 8, 7130-7144	13	9
32	Acid Functionalized Conjugated Microporous Polymers as a Reusable Catalyst for Biodiesel Production. *ACS Applied Polymer Materials*, **2020**, 2, 3908-3915	4.3	12
31	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	14.7	27
30	Synthesis of porous polymer-based metal□organic frameworks monolithic hybrid composite for hydrogen storage application. *Journal of Materials Science*, **2019**, 54, 7078-7086	4.3	16
29	Selective Environmental Remediation of Strontium and Cesium Using Sulfonated Hyper-Cross-Linked Polymers (SHCPs). *ACS Applied Materials & Interfaces*, **2019**, 11, 22464-22473	9.5	40
28	Dispersible microporous diblock copolymer nanoparticles via polymerisation-induced self-assembly. *Polymer Chemistry*, **2019**, 10, 3879-3886	4.9	6
27	Ion exchange removal of Cu(II), Fe(II), Pb(II) and Zn(II) from acid extracted sewage sludge - Resin screening in weak acid media. *Water Research*, **2019**, 158, 257-267	12.5	59
26	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	14.7	19
25	Mechanical characterisation of polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. *Journal of Materials Science*, **2017**, 52, 3862-3875	4.3	39
24	Trends and challenges for microporous polymers. *Chemical Society Reviews*, **2017**, 46, 3302-3321	58.5	292
23	Highly selective COvs. N adsorption in the cavity of a molecular coordination cage. *Chemical Communications*, **2017**, 53, 4398-4401	5.8	16
22	□Dry bases□carbon dioxide capture using alkaline dry water. *Energy and Environmental Science*, **2014**, 7, 1786-1791	35.4	36
21	Network formation mechanisms in conjugated microporous polymers. *Polymer Chemistry*, **2014**, 5, 6325-6333	4.9	46

20	Microporous Thioxanthone Polymers as Heterogeneous Photoinitiators for Visible Light Induced Free Radical and Cationic Polymerizations. *Macromolecules*, **2014**, 47, 4607-4614	5.5	99
19	Cationic microporous polymer networks by polymerisation of weakly coordinating cations with CO2-storage ability. *Journal of Materials Chemistry A*, **2014**, 2, 11825-11829	13	64
18	Swellable, water- and acid-tolerant polymer sponges for chemoselective carbon dioxide capture. *Journal of the American Chemical Society*, **2014**, 136, 9028-35	16.4	175
17	Post-synthetic modification of conjugated microporous polymers. *Polymer*, **2014**, 55, 321-325	3.9	73
16	Low band-gap benzothiadiazole conjugated microporous polymers. *Polymer Chemistry*, **2013**, 4, 5585	4.9	53
15	Chemical functionalization strategies for carbon dioxide capture in microporous organic polymers. *Polymer International*, **2013**, 62, 345-352	3.3	245
14	Nanoporous organic polymer networks. *Progress in Polymer Science*, **2012**, 37, 530-563	29.6	941
13	Functional conjugated microporous polymers: from 1,3,5-benzene to 1,3,5-triazine. *Polymer Chemistry*, **2012**, 3, 928	4.9	168
12	Impact of water coadsorption for carbon dioxide capture in microporous polymer sorbents. *Journal of the American Chemical Society*, **2012**, 134, 10741-4	16.4	230
11	Materials challenges for the development of solid sorbents for post-combustion carbon capture. *Journal of Materials Chemistry*, **2012**, 22, 2815-2823		224
10	Branching out with aminals: microporous organic polymers from difunctional monomers. *Polymer Chemistry*, **2012**, 3, 533-537	4.9	82
9	Step Change Adsorbents and Processes for CO2 Capture STEPCAP **2012**, 30-37		0
8	Microporous copolymers for increased gas selectivity. *Polymer Chemistry*, **2012**, 3, 2034	4.9	125
7	Porous, fluorescent, covalent triazine-based frameworks via room-temperature and microwave-assisted synthesis. *Advanced Materials*, **2012**, 24, 2357-61	24	504
6	Chemical tuning of CO2 sorption in robust nanoporous organic polymers. *Chemical Science*, **2011**, 2, 1173	9.4	492
5	Selective gas sorption in a [2+3] 'propeller' cage crystal. *Chemical Communications*, **2011**, 47, 8919-21	5.8	56
4	Microporous organic polymers for carbon dioxide capture. *Energy and Environmental Science*, **2011**, 4, 4239	35.4	497
3	High Surface Area Conjugated Microporous Polymers: The Importance of Reaction Solvent Choice. *Macromolecules*, **2010**, 43, 8524-8530	5.5	178

2	Functionalized Conjugated Microporous Polymers. *Macromolecules*, **2009**, 42, 8809-8816	5.5	305
1	Mesoporous Poly(phenylenevinylene) Networks. *Macromolecules*, **2008**, 41, 1591-1593	5.5	60