Robin J White

List of Publications by Citations

66 papers	7,761 citations	32 h-index	71 g-index
71 ext. papers	8,630 ext. citations	10 avg, IF	6.04 L-index

#	Paper	IF	Citations
66	Supported metal nanoparticles on porous materials. Methods and applications. *Chemical Society Reviews*, **2009**, 38, 481-94	58.5	981
65	Hollow Carbon Nanospheres with Superior Rate Capability for Sodium-Based Batteries. *Advanced Energy Materials*, **2012**, 2, 873-877	21.8	915
64	Sustainable carbon materials. *Chemical Society Reviews*, **2015**, 44, 250-90	58.5	826
63	Black perspectives for a green future: hydrothermal carbons for environment protection and energy storage. *Energy and Environmental Science*, **2012**, 5, 6796	35.4	631
62	A one-pot hydrothermal synthesis of sulfur and nitrogen doped carbon aerogels with enhanced electrocatalytic activity in the oxygen reduction reaction. *Green Chemistry*, **2012**, 14, 1515	10	494
61	Tuneable porous carbonaceous materials from renewable resources. *Chemical Society Reviews*, **2009**, 38, 3401-18	58.5	337
60	Beyond Mechanical Recycling: Giving New Life to Plastic Waste. *Angewandte Chemie - International Edition*, **2020**, 59, 15402-15423	16.4	265
59	Green chemistry and the biorefinery: a partnership for a sustainable future. *Green Chemistry*, **2006**, 8, 853	10	261
58	Functional hollow carbon nanospheres by latex templating. *Journal of the American Chemical Society*, **2010**, 132, 17360-3	16.4	235
57	Carbohydrate-derived hydrothermal carbons: a thorough characterization study. *Langmuir*, **2012**, 28, 12373-83	4	212
56	Hollow carbon nanospheres with a high rate capability for lithium-based batteries. *ChemSusChem*, **2012**, 5, 400-3	8.3	190
55	Palladium nanoparticles on polysaccharide-derived mesoporous materials and their catalytic performance in C□ coupling reactions. *Green Chemistry*, **2008**, 10, 382-387	10	186
54	Naturally inspired nitrogen doped porous carbon. *Journal of Materials Chemistry*, **2009**, 19, 8645		179
53	A sustainable synthesis of nitrogen-doped carbon aerogels. *Green Chemistry*, **2011**, 13, 2428	10	172
52	Energy Efficiency in Chemical Reactions: A Comparative Study of Different Reaction Techniques. *Organic Process Research and Development*, **2005**, 9, 516-518	3.9	152
51	Borax-Mediated Formation of Carbon Aerogels from Glucose. *Advanced Functional Materials*, **2012**, 22, 3254-3260	15.6	136
50	Always look on the "light" side of life: sustainable carbon aerogels. *ChemSusChem*, **2014**, 7, 670-89	8.3	128

49	Ordered Carbohydrate-Derived Porous Carbons. *Chemistry of Materials*, **2011**, 23, 4882-4885	9.6	117
48	Renewable nitrogen-doped hydrothermal carbons derived from microalgae. *ChemSusChem*, **2012**, 5, 1836-40	8.3	108
47	Hierarchical porous carbonaceous materials via ionothermal carbonization of carbohydrates. *Journal of Materials Chemistry*, **2011**, 21, 7434		106
46	A sustainable template for mesoporous zeolite synthesis. *Journal of the American Chemical Society*, **2014**, 136, 2715-8	16.4	103
45	Pectin-derived porous materials. *Chemistry - A European Journal*, **2010**, 16, 1326-35	4.8	78
44	Polysaccharide-Derived Carbons for Polar Analyte Separations. *Advanced Functional Materials*, **2010**, 20, 1834-1841	15.6	75
43	Porous carbohydrate-based materials via hard templating. *ChemSusChem*, **2010**, 3, 188-94	8.3	72
42	Tuneable mesoporous materials from alpha-D-polysaccharides. *ChemSusChem*, **2008**, 1, 408-11	8.3	70
41	Template Synthesis of Carbonaceous Tubular Nanostructures with Tunable Surface Properties. *Chemistry of Materials*, **2010**, 22, 6590-6597	9.6	67
40	Economics & carbon dioxide avoidance cost of methanol production based on renewable hydrogen and recycled carbon dioxide □power-to-methanol. *Sustainable Energy and Fuels*, **2018**, 2, 1244-1261	5.8	66
39	Direct methane oxidation over Pt-modified nitrogen-doped carbons. *Chemical Communications*, **2013**, 49, 240-2	5.8	65
38	Flexible Coral-like Carbon Nanoarchitectures via a Dual Block Copolymer□atex Templating Approach. *Chemistry of Materials*, **2013**, 25, 4781-4790	9.6	52
37	Local Platinum Environments in a Solid Analogue of the Molecular Periana Catalyst. *ACS Catalysis*, **2016**, 6, 2332-2340	13.1	40
36	Polyformamidine-Derived Non-Noble Metal Electrocatalysts for Efficient Oxygen Reduction Reaction. *Advanced Functional Materials*, **2018**, 28, 1707551	15.6	39
35	Poly(oxymethylene) dimethyl ether synthesis □a combined chemical equilibrium investigation towards an increasingly efficient and potentially sustainable synthetic route. *Reaction Chemistry and Engineering*, **2017**, 2, 50-59	4.9	32
34	Molecular-level understanding of the carbonisation of polysaccharides. *Chemistry - A European Journal*, **2013**, 19, 9351-7	4.8	30
33	Die n□hste Generation des Recyclings □neues Leben f□ Kunststoffm□. *Angewandte Chemie*, **2020**, 132, 15524-15548	3.6	29
32	Methanol Synthesis □ndustrial Challenges within a Changing Raw Material Landscape. *Chemie-Ingenieur-Technik*, **2018**, 90, 1409-1418	0.8	29

31	Towards a Sustainable Synthesis of Oxymethylene Dimethyl Ether by Homogeneous Catalysis and Uptake of Molecular Formaldehyde. *Angewandte Chemie - International Edition*, **2018**, 57, 9461-9464	16.4	25
30	Starbon® acids in alkylation and acetylation reactions: Effect of the Brønsted-Lewis acidity. *Catalysis Communications*, **2011**, 12, 1471-1476	3.2	25
29	Hydrothermal base catalyzed depolymerization and conversion of technical lignin – An introductory review. *Carbon Resources Conversion*, **2019**, 2, 59-71	4.7	23
28	Carbon-based ionogels: tuning the properties of the ionic liquid via carbon-ionic liquid interaction. *Physical Chemistry Chemical Physics*, **2012**, 14, 5992-7	3.6	19
27	A sweet killer: mesoporous polysaccharide confined silver nanoparticles for antibacterial applications. *International Journal of Molecular Sciences*, **2011**, 12, 5782-96	6.3	19
26	Comparative well-to-wheel life cycle assessment of OME3-5 synfuel production via the power-to-liquid pathway. *Sustainable Energy and Fuels*, **2019**, 3, 3219-3233	5.8	18
25	Structure, stability and permeation properties of NaA zeolite membranes for H2O/H2 and CH3OH/H2 separations. *Journal of the European Ceramic Society*, **2018**, 38, 211-219	6	18
24	A hybrid description and evaluation of oxymethylene dimethyl ethers synthesis based on the endothermic dehydrogenation of methanol. *Reaction Chemistry and Engineering*, **2018**, 3, 676-695	4.9	14
23	Nitrogen-doped Hydrothermal Carbons. *Green*, **2012**, 2, 25-40		14
22	Solvent Applications of Short-Chain Oxymethylene Dimethyl Ether Oligomers. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14834-14840	8.3	12
21	Describing oxymethylene ether synthesis based on the application of non-stoichiomsetric Gibbs minimisation. *Reaction Chemistry and Engineering*, **2018**, 3, 277-292	4.9	11
20	Towards a Sustainable Synthesis of Oxymethylene Dimethyl Ether by Homogeneous Catalysis and Uptake of Molecular Formaldehyde. *Angewandte Chemie*, **2018**, 130, 9605-9608	3.6	10
19	Highly correlated ab initio thermodynamics of oxymethylene dimethyl ethers (OME): formation and extension to the liquid phase. *Sustainable Energy and Fuels*, **2017**, 1, 1177-1183	5.8	9
18	Bio-electrochemical conversion of industrial wastewater-COD combined with downstream methanol synthesis – an economic and life cycle assessment. *Green Chemistry*, **2018**, 20, 2742-2762	10	9
17	An Interesting Class of Porous Polymer--Revisiting the Structure of Mesoporous D-Polysaccharide Gels. *ChemSusChem*, **2016**, 9, 280-8	8.3	8
16	One pot conversion of glucose to ethyl levulinate over a porous hydrothermal acid catalyst in green solvents.. *RSC Advances*, **2019**, 9, 20341-20344	3.7	8
15	Functionalising hydrothermal carbons for catalysis – Investigating solid acids in esterification reactions. *Catalysis Science and Technology*, **2020**, 10, 776-787	5.5	5
14	Hydrothermal base catalysed treatment of Kraft lignin - time dependent analysis and a techno-economic evaluation for carbon fibre applications. *Bioresource Technology Reports*, **2019**, 6, 241-250	4.1	4

List of Publications

13	CHAPTER 1:The Search for Functional Porous Carbons from Sustainable Precursors. *RSC Green Chemistry*, **2015**, 3-49	0.9	4
12	Directing nitrogen-doped carbon support chemistry for improved aqueous phase hydrogenation catalysis. *Catalysis Science and Technology*, **2020**, 10, 4794-4808	5.5	4
11	Hydrothermal base catalysed treatment of Kraft Lignin for the preparation of a sustainable carbon fibre precursor. *Bioresource Technology Reports*, **2019**, 5, 251-260	4.1	3
10	Gas permeation properties of NaA zeolite membranes: effect of silica source on hydrogel synthesis and layer thickness. *Journal of Porous Materials*, **2019**, 26, 1121-1129	2.4	3
9	Colloidal construction of porous polysaccharide-supported cadmium sulphide. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 444, 69-75	5.1	2
8	CHAPTER 2:From Polysaccharides to Starbons . *RSC Green Chemistry*, **2015**, 53-81	0.9	2
7	CHAPTER 6:Porous Hydrothermal Carbon Materials, Nanoparticles, Hybrids and Composites. *RSC Green Chemistry*, **2015**, 156-190	0.9	2
6	CHAPTER 10:Bulk and Surface Analysis of Carbonaceous Materials. *RSC Green Chemistry*, **2015**, 311-354	0.9	2
5	Porous Hydrothermal Carbons **2013**, 37-73		1
4	Environmental assessment of OME3-5 synfuel production via the power-to-liquid pathway **2020**, 415-422	0.3	1
3	CHAPTER 12:Other Approaches and the Commercialisation of Sustainable Carbonaceous Material Technology. *RSC Green Chemistry*, **2015**, 377-406	0.9	1
2	Chemical Vapor Deposition for Advanced Polymer Electrolyte Fuel Cell Membranes. *ChemElectroChem*,	4.3	1
1	Power-to-Liquids - Conversion of CO 2 and Renewable H 2 to Methanol **2022**, 489-520		