Con Robert McElroy

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43 papers	2,609 citations	20 h-index	51 g-index
51 ext. papers	3,311 ext. citations	6.8 avg, IF	5.28 L-index

#	Paper	IF	Citations
43	CHEM21 selection guide of classical- and less classical-solvents. *Green Chemistry*, **2016**, 18, 288-296	10	913
42	Tools and techniques for solvent selection: green solvent selection guides. *Sustainable Chemical Processes*, **2016**, 4,		510
41	Dihydrolevoglucosenone (Cyrene) as a bio-based alternative for dipolar aprotic solvents. *Chemical Communications*, **2014**, 50, 9650-2	5.8	231
40	Towards a holistic approach to metrics for the 21st century pharmaceutical industry. *Green Chemistry*, **2015**, 17, 3111-3121	10	192
39	Thiosulfonates as Emerging Reactants: Synthesis and Applications. *Advanced Synthesis and Catalysis* , **2020**, 362, 3-64	5.6	68
38	Sugarcane waste as a valuable source of lipophilic molecules. *Industrial Crops and Products*, **2015**, 76, 95-103	5.9	45
37	Biocatalysis in bio-derived solvents: an improved approach for medium optimisation. *Green Chemistry*, **2014**, 16, 2107-2110	10	45
36	Economic Assessment of Supercritical CO2 Extraction of Waxes as Part of a Maize Stover Biorefinery. *International Journal of Molecular Sciences*, **2015**, 16, 17546-64	6.3	41
35	Towards sustainable kinetic resolution, a combination of bio-catalysis, flow chemistry and bio-based solvents. *Green Chemistry*, **2018**, 20, 136-140	10	38
34	Challenges in the development of bio-based solvents: a case study on methyl(2,2-dimethyl-1,3-dioxolan-4-yl)methyl carbonate as an alternative aprotic solvent. *Faraday Discussions*, **2017**, 202, 157-173	3.6	36
33	Supercritical CO2Extraction as an Effective Pretreatment Step for Wax Extraction in a Miscanthus Biorefinery. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 5979-5988	8.3	33
32	Why we might be misusing process mass intensity (PMI) and a methodology to apply it effectively as a discovery level metric. *Green Chemistry*, **2020**, 22, 123-135	10	32
31	Intelligent Approach to Solvent Substitution: The Identification of a New Class of Levoglucosenone Derivatives. *ChemSusChem*, **2016**, 9, 3503-3512	8.3	31
30	Acid-catalysed carboxymethylation, methylation and dehydration of alcohols and phenols with dimethyl carbonate under mild conditions. *Green Chemistry*, **2016**, 18, 5839-5844	10	28
29	Fabrication of PES/PVP Water Filtration Membranes Using Cyrene , a Safer Bio-Based Polar Aprotic Solvent. *Advances in Polymer Technology*, **2019**, 2019, 1-15	1.9	28
28	Synthesis of Carbamates from Amines and Dialkyl Carbonates: Influence of Leaving and Entering Groups. *Synlett*, **2010**, 2010, 1567-1571	2.2	27
27	Synthesis of Biobased Diethyl Terephthalate via Diels–Alder Addition of Ethylene to 2,5-Furandicarboxylic Acid Diethyl Ester: An Alternative Route to 100% Biobased Poly(ethylene terephthalate). *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8183-8194	8.3	25

26	Toward Financially Viable Phytoextraction and Production of Plant-Based Palladium Catalysts. *Environmental Science & Technology*, **2017**, 51, 2992-3000	10.3	24
25	Cyclization reaction of amines with dialkyl carbonates to yield 1,3-oxazinan-2-ones. *Pure and Applied Chemistry*, **2011**, 84, 707-719	2.1	24
24	Sustainable Single-Stage Solid–Liquid Extraction of Hesperidin and Rutin from Agro-Products Using Cyrene. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 18245-18257	8.3	22
23	Recent developments in key biorefinery areas. *Current Opinion in Green and Sustainable Chemistry*, **2020**, 21, 64-74	7.9	18
22	On the Solubility and Stability of Polyvinylidene Fluoride. *Polymers*, **2021**, 13,	4.5	18
21	Using in vivo nickel to direct the pyrolysis of hyperaccumulator plant biomass. *Green Chemistry*, **2019**, 21, 1236-1240	10	17
20	Extractive profiles of different lodgepole pine (Pinus contorta) fractions grown under a direct seeding-based silvicultural regime. *Industrial Crops and Products*, **2014**, 58, 220-229	5.9	15
19	Synthesis of cholesterol-reducing sterol esters by enzymatic catalysis in bio-based solvents or solvent-free. *RSC Advances*, **2016**, 6, 48753-48756	3.7	14
18	1,3-Oxazinan-2-ones from Amines and 1,3-Diols through Dialkyl Carbonate Chemistry. *Synlett*, **2012**, 23, 1809-1815	2.2	14
17	A Method of Calculating the Kamlet-Abboud-Taft Solvatochromic Parameters Using COSMO-RS. *Molecules*, **2019**, 24,	4.8	13
16	Valorization of spruce needle waste via supercritical extraction of waxes and facile isolation of nonacosan-10-ol. *Journal of Cleaner Production*, **2018**, 171, 557-566	10.3	12
15	Solvent Applications of Short-Chain Oxymethylene Dimethyl Ether Oligomers. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14834-14840	8.3	12
14	Development of pharmaceutically relevant bio-based intermediates though aldol condensation and Claisen–Schmidt reactions of dihydrolevoglucosenone (Cyrene™). *Green Chemistry*, **2018**, 20, 4423-4427	10	10
13	Natural Product Recovery from Bilberry (Vaccinium myrtillus L.) Presscake via Microwave Hydrolysis. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 3676-3685	8.3	9
12	Polymer Chemistry Applications of Cyrene and its Derivative Cygnet 0.0 as Safer Replacements for Polar Aprotic Solvents. *ChemSusChem*, **2021**, 14, 3367-3381	8.3	9
11	Industry-Informed Workshops to Develop Graduate Skill Sets in the Circular Economy Using Systems Thinking. *Journal of Chemical Education*, **2019**, 96, 2959-2967	2.4	7
10	DFT and experimental analysis of aluminium chloride as a Lewis acid proton carrier catalyst for dimethyl carbonate carboxymethylation of alcohols. *Catalysis Science and Technology*, **2017**, 7, 4859-4865	5.5	5
9	The role of surface functionality of sustainable mesoporous materials Starbon® on the adsorption of toxic ammonia and sulphur gasses. *Sustainable Chemistry and Pharmacy*, **2020**, 15, 100230	3.9	5

8	A Family of Water-Immiscible, Dipolar Aprotic, Diamide Solvents from Succinic Acid. *ChemSusChem*, **2020**, 13, 3212-3221	8.3	4
7	Direct comparison of safer or sustainable alternative dipolar aprotic solvents for use in carbon–carbon bond formation. *Reaction Chemistry and Engineering*, **2020**, 5, 1798-1804	4.9	4
6	Pd-Catalysed carbonylative Suzuki–Miyaura cross-couplings using $Fe(CO)_5$ under mild conditions: generation of a highly active, recyclable and scalable Pd–Fe nanocatalyst. *Green Chemistry*, **2021**, 23, 920-926	10	3
5	Phytocat – a bio-derived Ni catalyst for rapid de-polymerization of polystyrene using a synergistic approach. *Green Chemistry*, **2021**, 23, 808-814	10	3
4	Biologically bound nickel as a sustainable catalyst for the selective hydrogenation of cinnamaldehyde. *Applied Catalysis B: Environmental*, **2022**, 306, 121105	21.8	2
3	The Greening of Chemistry **2011**, 189-233		1
2	3-Methoxybutan-2-one as a sustainable bio-based alternative to chlorinated solvents.. *RSC Advances*, **2021**, 11, 39412-39419	3.7	1
1	Application of bio-based solvents for biocatalysed synthesis of amides with Pseudomonas stutzeri lipase (PSL). *Pure and Applied Chemistry*, **2020**, 92, 579-586	2.1	0