

# Con Robert McElroy

## List of Publications by Year in Descending Order

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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	Biologically bound nickel as a sustainable catalyst for the selective hydrogenation of cinnamaldehyde. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 306, 121105	21.8	2
42	3-Methoxybutan-2-one as a sustainable bio-based alternative to chlorinated solvents.. <i>RSC Advances</i> , <b>2021</b> , 11, 39412-39419	3.7	1
41	On the Solubility and Stability of Polyvinylidene Fluoride. <i>Polymers</i> , <b>2021</b> , 13,	4.5	18
40	Polymer Chemistry Applications of Cyrene and its Derivative Cygnet 0.0 as Safer Replacements for Polar Aprotic Solvents. <i>ChemSusChem</i> , <b>2021</b> , 14, 3367-3381	8.3	9
39	Pd-Catalysed carbonylative SuzukiMiyaura cross-couplings using Fe(CO) <sub>5</sub> under mild conditions: generation of a highly active, recyclable and scalable PdBe <sub>2</sub> nanocatalyst. <i>Green Chemistry</i> , <b>2021</b> , 23, 920-926	10	3
38	Phytocatalytic bio-derived Ni catalyst for rapid de-polymerization of polystyrene using a synergistic approach. <i>Green Chemistry</i> , <b>2021</b> , 23, 808-814	10	3
37	A Family of Water-Immiscible, Dipolar Aprotic, Diamide Solvents from Succinic Acid. <i>ChemSusChem</i> , <b>2020</b> , 13, 3212-3221	8.3	4
36	The role of surface functionality of sustainable mesoporous materials Starbon <sup>®</sup> on the adsorption of toxic ammonia and sulphur gasses. <i>Sustainable Chemistry and Pharmacy</i> , <b>2020</b> , 15, 100230	3.9	5
35	Why we might be misusing process mass intensity (PMI) and a methodology to apply it effectively as a discovery level metric. <i>Green Chemistry</i> , <b>2020</b> , 22, 123-135	10	32
34	Application of bio-based solvents for biocatalysed synthesis of amides with <i>Pseudomonas stutzeri</i> lipase (PSL). <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 579-586	2.1	0
33	Recent developments in key biorefinery areas. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2020</b> , 21, 64-74	7.9	18
32	Sustainable Single-Stage Solid-Liquid Extraction of Hesperidin and Rutin from Agro-Products Using Cyrene. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 18245-18257	8.3	22
31	Direct comparison of safer or sustainable alternative dipolar aprotic solvents for use in carbon-carbon bond formation. <i>Reaction Chemistry and Engineering</i> , <b>2020</b> , 5, 1798-1804	4.9	4
30	Thiosulfonates as Emerging Reactants: Synthesis and Applications. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 3-64	5.6	68
29	Using in vivo nickel to direct the pyrolysis of hyperaccumulator plant biomass. <i>Green Chemistry</i> , <b>2019</b> , 21, 1236-1240	10	17
28	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). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8183-8194	8.3	25
27	Solvent Applications of Short-Chain Oxymethylene Dimethyl Ether Oligomers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14834-14840	8.3	12

26	A Method of Calculating the Kamlet-Abboud-Taft Solvatochromic Parameters Using COSMO-RS. <i>Molecules</i> , <b>2019</b> , 24,	4.8	13
25	Fabrication of PES/PVP Water Filtration Membranes Using Cyrene <sup>®</sup> , a Safer Bio-Based Polar Aprotic Solvent. <i>Advances in Polymer Technology</i> , <b>2019</b> , 2019, 1-15	1.9	28
24	Industry-Informed Workshops to Develop Graduate Skill Sets in the Circular Economy Using Systems Thinking. <i>Journal of Chemical Education</i> , <b>2019</b> , 96, 2959-2967	2.4	7
23	Natural Product Recovery from Bilberry ( <i>Vaccinium myrtillus</i> L.) Presscake via Microwave Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 3676-3685	8.3	9
22	Valorization of spruce needle waste via supercritical extraction of waxes and facile isolation of nonacosan-10-ol. <i>Journal of Cleaner Production</i> , <b>2018</b> , 171, 557-566	10.3	12
21	Towards sustainable kinetic resolution, a combination of bio-catalysis, flow chemistry and bio-based solvents. <i>Green Chemistry</i> , <b>2018</b> , 20, 136-140	10	38
20	Development of pharmaceutically relevant bio-based intermediates through aldol condensation and Claisen-Schmidt reactions of dihydrolevoglucosenone (Cyrene <sup>®</sup> ). <i>Green Chemistry</i> , <b>2018</b> , 20, 4423-4427	10	10
19	Toward Financially Viable Phytoextraction and Production of Plant-Based Palladium Catalysts. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2992-3000	10.3	24
18	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. <i>Faraday Discussions</i> , <b>2017</b> , 202, 157-173	3.6	36
17	DFT and experimental analysis of aluminium chloride as a Lewis acid proton carrier catalyst for dimethyl carbonate carboxymethylation of alcohols. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 4859-4865	5.5	5
16	Supercritical CO <sub>2</sub> Extraction as an Effective Pretreatment Step for Wax Extraction in a Miscanthus Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5979-5988	8.3	33
15	Acid-catalysed carboxymethylation, methylation and dehydration of alcohols and phenols with dimethyl carbonate under mild conditions. <i>Green Chemistry</i> , <b>2016</b> , 18, 5839-5844	10	28
14	Intelligent Approach to Solvent Substitution: The Identification of a New Class of Levoglucosenone Derivatives. <i>ChemSusChem</i> , <b>2016</b> , 9, 3503-3512	8.3	31
13	Synthesis of cholesterol-reducing sterol esters by enzymatic catalysis in bio-based solvents or solvent-free. <i>RSC Advances</i> , <b>2016</b> , 6, 48753-48756	3.7	14
12	CHEM21 selection guide of classical- and less classical-solvents. <i>Green Chemistry</i> , <b>2016</b> , 18, 288-296	10	913
11	Tools and techniques for solvent selection: green solvent selection guides. <i>Sustainable Chemical Processes</i> , <b>2016</b> , 4,		510
10	Sugarcane waste as a valuable source of lipophilic molecules. <i>Industrial Crops and Products</i> , <b>2015</b> , 76, 95-103	5.9	45
9	Towards a holistic approach to metrics for the 21st century pharmaceutical industry. <i>Green Chemistry</i> , <b>2015</b> , 17, 3111-3121	10	192

8	Economic Assessment of Supercritical CO <sub>2</sub> Extraction of Waxes as Part of a Maize Stover Biorefinery. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 17546-64	6.3	41
7	Biocatalysis in bio-derived solvents: an improved approach for medium optimisation. <i>Green Chemistry</i> , <b>2014</b> , 16, 2107-2110	10	45
6	Dihydrolevoglucosenone (Cyrene) as a bio-based alternative for dipolar aprotic solvents. <i>Chemical Communications</i> , <b>2014</b> , 50, 9650-2	5.8	231
5	Extractive profiles of different lodgepole pine ( <i>Pinus contorta</i> ) fractions grown under a direct seeding-based silvicultural regime. <i>Industrial Crops and Products</i> , <b>2014</b> , 58, 220-229	5.9	15
4	1,3-Oxazinan-2-ones from Amines and 1,3-Diols through Dialkyl Carbonate Chemistry. <i>Synlett</i> , <b>2012</b> , 23, 1809-1815	2.2	14
3	The Greening of Chemistry <b>2011</b> , 189-233		1
2	Cyclization reaction of amines with dialkyl carbonates to yield 1,3-oxazinan-2-ones. <i>Pure and Applied Chemistry</i> , <b>2011</b> , 84, 707-719	2.1	24
1	Synthesis of Carbamates from Amines and Dialkyl Carbonates: Influence of Leaving and Entering Groups. <i>Synlett</i> , <b>2010</b> , 2010, 1567-1571	2.2	27