

# W Matthew Reichert

## List of Publications by Citations

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44  
papers

8,360  
citations

28  
h-index

47  
g-index

47  
ext. papers

8,667  
ext. citations

5  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
44	Characterization and comparison of hydrophilic and hydrophobic room temperature ionic liquids incorporating the imidazolium cation. <i>Green Chemistry</i> , <b>2001</b> , 3, 156-164	10	3198
43	Task-specific ionic liquids for the extraction of metal ions from aqueous solutions. <i>Chemical Communications</i> , <b>2001</b> , 135-136	5.8	744
42	Traditional Extractants in Nontraditional Solvents: Groups 1 and 2 Extraction by Crown Ethers in Room-Temperature Ionic Liquids <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 3596-3604	3.9	560
41	Efficient, halide free synthesis of new, low cost ionic liquids: 1,3-dialkylimidazolium salts containing methyl- and ethyl-sulfate anions. <i>Green Chemistry</i> , <b>2002</b> , 4, 407-413	10	468
40	Task-specific ionic liquids incorporating novel cations for the coordination and extraction of Hg <sup>2+</sup> and Cd <sup>2+</sup> : synthesis, characterization, and extraction studies. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 2523-9	10.3	426
39	Liquid clathrate formation in ionic liquid-aromatic mixtures. <i>Chemical Communications</i> , <b>2003</b> , 476-7	5.8	343
38	Crystal polymorphism in 1-butyl-3-methylimidazolium halides: supporting ionic liquid formation by inhibition of crystallization. <i>Chemical Communications</i> , <b>2003</b> , 1636	5.8	339
37	Crystal structures of imidazolium bis(trifluoromethanesulfonyl)imide 'ionic liquid' salts: the first organic salt with a cis-TFSI anion conformation. <i>Dalton Transactions</i> , <b>2004</b> , 2267-71	4.3	227
36	1,3-dimethylimidazolium-2-carboxylate: the unexpected synthesis of an ionic liquid precursor and carbene-CO <sub>2</sub> adduct. <i>Chemical Communications</i> , <b>2003</b> , 28-9	5.8	226
35	Approaches to crystallization from ionic liquids: complex solvents-complex results, or, a strategy for controlled formation of new supramolecular architectures?. <i>Chemical Communications</i> , <b>2006</b> , 4767-79	5.8	156
34	Ionic liquids with dual biological function: sweet and anti-microbial, hydrophobic quaternary ammonium-based salts. <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 26-33	3.6	152
33	Conventional free radical polymerization in room temperature ionic liquids: a green approach to commodity polymers with practical advantages. <i>Chemical Communications</i> , <b>2002</b> , 1368-9	5.8	151
32	On the solubilization of water with ethanol in hydrophobic hexafluorophosphate ionic liquids. <i>Green Chemistry</i> , <b>2002</b> , 4, 81-87	10	151
31	Mercury(II) partitioning from aqueous solutions with a new, hydrophobic ethylene-glycol functionalized bis-imidazolium ionic liquid. <i>Green Chemistry</i> , <b>2003</b> , 5, 129-135	10	123
30	New ionic liquids containing an appended hydroxyl functionality from the atom-efficient, one-pot reaction of 1-methylimidazole and acid with propylene oxide. <i>Green Chemistry</i> , <b>2003</b> , 5, 731	10	101
29	Synthesis and activation of Pt nanoparticles with controlled size for fuel cell electrocatalysts. <i>Journal of Power Sources</i> , <b>2007</b> , 164, 472-480	8.9	96
28	1-butyl-3-methylimidazolium 3,5-dinitro-1,2,4-triazolate: a novel ionic liquid containing a rigid, planar energetic anion. <i>Chemical Communications</i> , <b>2005</b> , 868-70	5.8	96

27	Understanding the Effects of Ionicity in Salts, Solvates, Co-Crystals, Ionic Co-Crystals, and Ionic Liquids, Rather than Nomenclature, Is Critical to Understanding Their Behavior. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 965-975	3.5	92
26	Solid-State Analysis of Low-Melting 1,3-Dialkylimidazolium Hexafluorophosphate Salts (Ionic Liquids) by Combined X-ray Crystallographic and Computational Analyses. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 1106-1114	3.5	88
25	Ionic liquids via reaction of the zwitterionic 1,3-dimethylimidazolium-2-carboxylate with protic acids. Overcoming synthetic limitations and establishing new halide free protocols for the formation of ILs. <i>Green Chemistry</i> , <b>2007</b> , 9, 90-98	10	84
24	In search of ionic liquids incorporating azolate anions. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 4630-41	4.8	70
23	Solvation of 1-butyl-3-methylimidazolium hexafluorophosphate in aqueous ethanol--a green solution for dissolving 'hydrophobic' ionic liquids. <i>Chemical Communications</i> , <b>2001</b> , 2070-1	5.8	69
22	Strategies toward the design of energetic ionic liquids: nitro- and nitrile-substituted N,N'-dialkylimidazolium salts. <i>New Journal of Chemistry</i> , <b>2006</b> , 30, 349	3.6	59
21	Process variables that control natural fiber welding: time, temperature, and amount of ionic liquid. <i>Cellulose</i> , <b>2012</b> , 19, 13-22	5.5	35
20	Synthesis, limitations, and thermal properties of energetically-substituted, protonated imidazolium picrate and nitrate salts and further comparison with their methylated analogs. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 702-722	3.6	35
19	Exploiting isolobal relationships to create new ionic liquids: novel room-temperature ionic liquids based upon (N-alkylimidazole)(amine)BH <sub>2</sub> <sup>+</sup> "boronium" ions. <i>Chemical Communications</i> , <b>2005</b> , 3679-81	5.8	35
18	Natural Fiber Welding. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 425-430	3.9	31
17	Exploring control of cadmium halide coordination polymers via control of cadmium(II) coordination sites utilizing short multidentate ligands. <i>Journal of Molecular Structure</i> , <b>2006</b> , 796, 76-85	3.4	28
16	Ionic liquid characteristics of 1-alkyl-n-cyanopyridinium and 1-alkyl-n-(trifluoromethyl)pyridinium salts. <i>New Journal of Chemistry</i> , <b>2008</b> , 32, 1953	3.6	27
15	Sorption of Ammonia in Mesoporous-Silica Ionic Liquid Composites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 12191-12204	3.9	24
14	Characterization of Hydrophilic and Hydrophobic Ionic Liquids: Alternatives to Volatile Organic Compounds for Liquid-Liquid Separations. <i>ACS Symposium Series</i> , <b>2002</b> , 289-308	0.4	24
13	The structure of [Co(H-tptz)Cl <sub>3</sub> ]H <sub>2</sub> O (tptz=2,4,6-tri(2-pyridyl)-1,3,5-triazine) prepared by crystallization from the ionic liquid, N-butyl-N-methyl-pyrrolidinium bis(trifluoromethanesulfonyl)imide. <i>Journal of Chemical Crystallography</i> , <b>2006</b> , 36, 799-804	0.5	16
12	3-(1-Methyl-3-imidazolio)propane-sulfonate: a precursor to a Brønsted acid ionic liquid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2010</b> , 66, o591		12
11	Azolium azolates from reactions of neutral azoles with 1,3-dimethyl-imidazolium-2-carboxylate, 1,2,3-trimethyl-imidazolium hydrogen carbonate, and N,N-dimethyl-pyrrolidinium hydrogen carbonate. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 1461	3.6	11
10	Room Temperature Ionic Liquids as Replacements for Traditional Organic Solvents and Their Applications Towards Green Chemistry in Separation Processes <b>2003</b> , 137-156		8

9	The role of urea in the solubility of cellulose in aqueous quaternary ammonium hydroxide.. <i>RSC Advances</i> , <b>2020</b> , 10, 5919-5929	3.7	6
8	Ionic Liquid Welding of the UIO-66-NH <sub>2</sub> MOF to Cotton Textiles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 19285-19298	3.9	6
7	Multi-ion ionic liquids and a direct, reproducible, diversity-oriented way to make them. <i>Chemical Communications</i> , <b>2015</b> , 51, 15914-6	5.8	5
6	Degradation of Chitin Utilizing Acid Functionalized Ionic Liquids Technology. <i>ACS Symposium Series</i> , <b>2012</b> , 189-198	0.4	5
5	Grass to Gas: Ionic Liquid Based Conversion of Biomass to Fuels. <i>ECS Transactions</i> , <b>2010</b> , 33, 109-116	1	4
4	Effects of Crystal Packing on the Thermal Behavior of N,N'-alkylpiperidinium and N,N'-alkylmorpholinium Iodide Salts. <i>ECS Transactions</i> , <b>2010</b> , 33, 667-677	1	2
3	Hydrophobic n-Alkyl-N-isoquinolinium Salts: Ionic Liquids and Low Melting Solids. <i>ACS Symposium Series</i> , <b>2007</b> , 362-380	0.4	2
2	Acoustic levitation and infrared thermography: a sound approach to studying droplet evaporation. <i>Chemical Communications</i> , <b>2020</b> , 56, 4224-4227	5.8	1
1	1-Butyl-3-methylimidazolium 3,5-Dinitro-1,2,4-triazolate: A Novel Ionic Liquid Containing a Rigid, Planar Energetic Anion. <i>ChemInform</i> , <b>2005</b> , 36, no		1