

W Matthew Reichert

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.

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	Acoustic levitation and infrared thermography: a sound approach to studying droplet evaporation. <i>Chemical Communications</i> , 2020 , 56, 4224-4227	5.8	1
43	The role of urea in the solubility of cellulose in aqueous quaternary ammonium hydroxide.. <i>RSC Advances</i> , 2020 , 10, 5919-5929	3.7	6
42	Ionic Liquid Welding of the UIO-66-NH ₂ MOF to Cotton Textiles. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19285-19298	3.9	6
41	Sorption of Ammonia in Mesoporous-Silica Ionic Liquid Composites. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12191-12204	3.9	24
40	Multi-ion ionic liquids and a direct, reproducible, diversity-oriented way to make them. <i>Chemical Communications</i> , 2015 , 51, 15914-6	5.8	5
39	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> , 2013 , 13, 965-975	3.5	92
38	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> , 2013 , 37, 1461	3.6	11
37	Process variables that control natural fiber welding: time, temperature, and amount of ionic liquid. <i>Cellulose</i> , 2012 , 19, 13-22	5.5	35
36	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> , 2012 , 36, 702-722	3.6	35
35	Degradation of Chitin Utilizing Acid Functionalized Ionic Liquids Technology. <i>ACS Symposium Series</i> , 2012 , 189-198	0.4	5
34	Effects of Crystal Packing on the Thermal Behavior of N,N'-alkylpiperidinium and N,N'-alkylmorpholinium Iodide Salts. <i>ECS Transactions</i> , 2010 , 33, 667-677	1	2
33	3-(1-Methyl-3-imidazolio)propane-sulfonate: a precursor to a Brønsted acid ionic liquid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o591		12
32	Grass to Gas: Ionic Liquid Based Conversion of Biomass to Fuels. <i>ECS Transactions</i> , 2010 , 33, 109-116	1	4
31	Natural Fiber Welding. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 425-430	3.9	31
30	Ionic liquids with dual biological function: sweet and anti-microbial, hydrophobic quaternary ammonium-based salts. <i>New Journal of Chemistry</i> , 2009 , 33, 26-33	3.6	152
29	Ionic liquid characteristics of 1-alkyl-n-cyanopyridinium and 1-alkyl-n-(trifluoromethyl)pyridinium salts. <i>New Journal of Chemistry</i> , 2008 , 32, 1953	3.6	27
28	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> , 2007 , 7, 1106-1114	3.5	88

27	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> , 2007 , 9, 90-98	10	84
26	Synthesis and activation of Pt nanoparticles with controlled size for fuel cell electrocatalysts. <i>Journal of Power Sources</i> , 2007 , 164, 472-480	8.9	96
25	Hydrophobic n-Alkyl-N-isoquinolinium Salts: Ionic Liquids and Low Melting Solids. <i>ACS Symposium Series</i> , 2007 , 362-380	0.4	2
24	In search of ionic liquids incorporating azolate anions. <i>Chemistry - A European Journal</i> , 2006 , 12, 4630-41	4.8	70
23	Strategies toward the design of energetic ionic liquids: nitro- and nitrile-substituted N,N'-dialkylimidazolium salts. <i>New Journal of Chemistry</i> , 2006 , 30, 349	3.6	59
22	Approaches to crystallization from ionic liquids: complex solvents-complex results, or, a strategy for controlled formation of new supramolecular architectures?. <i>Chemical Communications</i> , 2006 , 4767-79	5.8	156
21	Exploring control of cadmium halide coordination polymers via control of cadmium(II) coordination sites utilizing short multidentate ligands. <i>Journal of Molecular Structure</i> , 2006 , 796, 76-85	3.4	28
20	The structure of [Co(H-tptz)Cl ₃]·H ₂ 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> , 2006 , 36, 799-804	0.5	16
19	Exploiting isolobal relationships to create new ionic liquids: novel room-temperature ionic liquids based upon (N-alkylimidazole)(amine)BH ₂ ⁺ "boronium" ions. <i>Chemical Communications</i> , 2005 , 3679-81	5.8	35
18	1-Butyl-3-methylimidazolium 3,5-Dinitro-1,2,4-triazolate: A Novel Ionic Liquid Containing a Rigid, Planar Energetic Anion. <i>ChemInform</i> , 2005 , 36, no		1
17	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> , 2005 , 868-70	5.8	96
16	Crystal structures of imidazolium bis(trifluoromethanesulfonyl)imide 'ionic liquid' salts: the first organic salt with a cis-TFSI anion conformation. <i>Dalton Transactions</i> , 2004 , 2267-71	4.3	227
15	Crystal polymorphism in 1-butyl-3-methylimidazolium halides: supporting ionic liquid formation by inhibition of crystallization. <i>Chemical Communications</i> , 2003 , 1636	5.8	339
14	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> , 2003 , 5, 731	10	101
13	1,3-dimethylimidazolium-2-carboxylate: the unexpected synthesis of an ionic liquid precursor and carbene-CO ₂ adduct. <i>Chemical Communications</i> , 2003 , 28-9	5.8	226
12	Liquid clathrate formation in ionic liquid-aromatic mixtures. <i>Chemical Communications</i> , 2003 , 476-7	5.8	343
11	Mercury(II) partitioning from aqueous solutions with a new, hydrophobic ethylene-glycol functionalized bis-imidazolium ionic liquid. <i>Green Chemistry</i> , 2003 , 5, 129-135	10	123
10	Room Temperature Ionic Liquids as Replacements for Traditional Organic Solvents and Their Applications Towards Green Chemistry in Separation Processes 2003 , 137-156		8

9	Characterization of Hydrophilic and Hydrophobic Ionic Liquids: Alternatives to Volatile Organic Compounds for Liquid-Liquid Separations. <i>ACS Symposium Series</i> , 2002 , 289-308	0.4	24
8	Task-specific ionic liquids incorporating novel cations for the coordination and extraction of Hg ²⁺ and Cd ²⁺ : synthesis, characterization, and extraction studies. <i>Environmental Science & Technology</i> , 2002 , 36, 2523-9	10.3	426
7	Efficient, halide free synthesis of new, low cost ionic liquids: 1,3-dialkylimidazolium salts containing methyl- and ethyl-sulfate anions. <i>Green Chemistry</i> , 2002 , 4, 407-413	10	468
6	Conventional free radical polymerization in room temperature ionic liquids: a green approach to commodity polymers with practical advantages. <i>Chemical Communications</i> , 2002 , 1368-9	5.8	151
5	On the solubilization of water with ethanol in hydrophobic hexafluorophosphate ionic liquids. <i>Green Chemistry</i> , 2002 , 4, 81-87	10	151
4	Characterization and comparison of hydrophilic and hydrophobic room temperature ionic liquids incorporating the imidazolium cation. <i>Green Chemistry</i> , 2001 , 3, 156-164	10	3198
3	Task-specific ionic liquids for the extraction of metal ions from aqueous solutions. <i>Chemical Communications</i> , 2001 , 135-136	5.8	744
2	Solvation of 1-butyl-3-methylimidazolium hexafluorophosphate in aqueous ethanol--a green solution for dissolving 'hydrophobic' ionic liquids. <i>Chemical Communications</i> , 2001 , 2070-1	5.8	69
1	Traditional Extractants in Nontraditional Solvents: Groups 1 and 2 Extraction by Crown Ethers in Room-Temperature Ionic Liquids <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 3596-3604	3.9	560