Julia L Shamshina

List of Publications by Year
in descending order

191 papers	32,400 citations	13099 68 h-index	3830 178 g-index
203 all docs	203 docs citations	203 times ranked	21071 citing authors

#	Article	IF	Citations
1	Dissolution of Cellose with Ionic Liquids. Journal of the American Chemical Society, 2002, 124, 4974-4975.	13.7	4,294
2	CHEMISTRY: Ionic Liquids--Solvents of the Future?. Science, 2003, 302, 792-793.	12.6	3,722
3	Characterization and comparison of hydrophilic and hydrophobic room temperature ionic liquids incorporating the imidazolium cation. Green Chemistry, 2001, 3, 156-164.	9.0	3,466
4	Room temperature ionic liquids as novel media for â€˜cleanâ€™ liquidâ€"liquid extraction. Chemical Communications, 1998, , 1765-1766.	4.1	1,975
5	Ionic liquid processing of cellulose. Chemical Society Reviews, 2012, 41, 1519.	38.1	1,165
6	Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate. Green Chemistry, 2009, 11, 646.	9.0	906
7	Ionic liquids are not always green: hydrolysis of 1-butyl-3-methylimidazolium hexafluorophosphate. Green Chemistry, 2003, 5, 361.	9.0	902
8	Polymorphs, Salts, and Cocrystals: Whatâ€™s in a Name?. Crystal Growth and Design, 2012, 12, 2147-2152.	3.0	767
9	The third evolution of ionic liquids: active pharmaceutical ingredients. New Journal of Chemistry, 2007, 31, 1429.	2.8	766
10	Can ionic liquids dissolve wood? Processing and analysis of lignocellulosic materials with 1-n-butyl-3-methylimidazolium chloride. Green Chemistry, 2007, 9, 63-69.	9.0	752
11	Mechanism of cellulose dissolution in the ionic liquid 1-n-butyl-3-methylimidazolium chloride: a 13C and 35/37Cl NMR relaxation study on model systems. Chemical Communications, 2006, , 1271.	4.1	613
12	Hydrogels based on cellulose and chitin: fabrication, properties, and applications. Green Chemistry, 2016, 18, 53-75.	9.0	522
13	Efficient, halide free synthesis of new, low cost ionic liquids: 1,3-dialkylimidazolium salts containing methyl- and ethyl-sulfate anions. Green Chemistry, 2002, 4, 407-413.	9.0	508
14	The Second Evolution of Ionic Liquids: From Solvents and Separations to Advanced Materialsâ€"Energetic Examples from the Ionic Liquid Cookbook. Accounts of Chemical Research, 2007, 40, 1182-1192.	15.6	454
15	Where are ionic liquid strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?. Chemical Communications, 2011, 47, 1405-1421.	4.1	391
16	Dissolution or extraction of crustacean shells using ionic liquids to obtain high molecular weight purified chitin and direct production of chitin films and fibers. Green Chemistry, 2010, 12, 968.	9.0	364
17	Demonstration of Chemisorption of Carbon Dioxide in 1,3â€Dialkylimidazolium Acetate Ionic Liquids. Angewandte Chemie - International Edition, 2011, 50, 12024-12026.	13.8	349
18	Production of Bioactive Cellulose Films Reconstituted from Ionic Liquids. Biomacromolecules, 2004, 5, 1379-1384.	5.4	342

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19	Ionic Liquids Then and Now: From Solvents to Materials to Active Pharmaceutical Ingredients. Bulletin of the Chemical Society of Japan, 2007, 80, 2262-2269.	3.2	315
20	Crystalline vs. Ionic Liquid Salt Forms of Active Pharmaceutical Ingredients: A Position Paper. Pharmaceutical Research, 2010, 27, 521-526.	3.5	307
21	Combustible ionic liquids by design: is laboratory safety another ionic liquid myth?. Chemical Communications, 2006, , 2554.	4.1	301
22	Investigation of aqueous biphasic systems formed from solutions of chaotropic salts with kosmotropic salts (saltâ€“salt ABS). Green Chemistry, 2007, 9, 177-183.	9.0	301
23	High-resolution 13C NMR studies of cellulose and cellulose oligomers in ionic liquid solutions. Chemical Communications, 2005, , 1557.	4.1	298
24	Mixing ionic liquids â€“ â€œsimple mixturesâ€•or â€œdouble saltsâ€?. Green Chemistry, 2014, 16, 2051.	9.0	289
25	1,3-Dimethylimidazolium-2-carboxylate: the unexpected synthesis of an ionic liquid precursor and carbene-CO2 adductElectronic supplementary information (ESI) available: experimental data for 1,3-dimethylimidazolium-2-carboxylate. Supplemental crystal structure data. ORTEP, hydrogen bonding and packing diagrams. See http://www.rsc.org./suppdata/cc/b2/b211519k/. Chemical Communications, 2003, , 28-29.	4.1	241
26	Application of ionic liquids as plasticizers for poly(methyl methacrylate). Chemical Communications, 2002, , 1370-1371.	4.1	233
27	Rapid dissolution of lignocellulosic biomass in ionic liquids using temperatures above the glass transition of lignin. Green Chemistry, 2011, 13, 2038.	9.0	203
28	Ionic liquids in drug delivery. Expert Opinion on Drug Delivery, 2013, 10, 1367-1381.	5.0	186
29	Solvation of Carbohydrates in <i>N</i>,<i>N</i>â€²-Dialkylimidazolium Ionic Liquids: A Multinuclear NMR Spectroscopy Study. Journal of Physical Chemistry B, 2008, 112, 11071-11078.	2.6	185
30	Advances in Functional Chitin Materials: A Review. ACS Sustainable Chemistry and Engineering, 2019, 7, 6444-6457.	6.7	185
31	In search of pure liquid salt forms of aspirin: ionic liquid approaches with acetylsalicylic acid and salicylic acid. Physical Chemistry Chemical Physics, 2010, 12, 2011.	2.8	183
32	Chemistry: Develop ionic liquid drugs. Nature, 2015, 528, 188-189.	27.8	176
33	Ionic liquids with dual biological function: sweet and anti-microbial, hydrophobic quaternary ammonium-based salts. New Journal of Chemistry, 2009, 33, 26-33.	2.8	173
34	Approaches to crystallization from ionic liquids: complex solventsâ€“complex results, or, a strategy for controlled formation of new supramolecular architectures?. Chemical Communications, 2006, , 4767-4779.	4.1	165
35	Ionic Liquid-Reconstituted Cellulose Composites as Solid Support Matrices for Biocatalyst Immobilization. Biomacromolecules, 2005, 6, 2497-2502.	5.4	152
36	Choline-Derivative-Based Ionic Liquids. Chemistry - A European Journal, 2007, 13, 6817-6827.	3.3	151

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37	Long alkyl chain quaternary ammonium-based ionic liquids and potential applications. Green Chemistry, 2006, 8, 798.	9.0	146
38	Electrospinning of chitin nanofibers directly from an ionic liquid extract of shrimp shells. Green Chemistry, 2013, 15, 601.	9.0	145
39	Mercury(ii) partitioning from aqueous solutions with a new, hydrophobic ethylene-glycol functionalized bis-imidazolium ionic liquidThis work was presented at the Green Solvents for Catalysis Meeting held in Bruchsal, Germany, 13â€"16th October 2002.. Green Chemistry, 2003, 5, 129-135.	9.0	130
40	Magnetite-embedded cellulose fibers prepared from ionic liquid. Journal of Materials Chemistry, 2008, 18, 283-290.	6.7	124
41	Surface modification of ionic liquid-spun chitin fibers for the extraction of uranium from seawater: seeking the strength of chitin and the chemical functionality of chitosan. Green Chemistry, 2014, 16, 1828-1836.	9.0	121
42	Liquid forms of pharmaceutical co-crystals: exploring the boundaries of salt formation. Chemical Communications, 2011, 47, 2267-2269.	4.1	120
43	Confused ionic liquid ionsâ€"a â€œliquificationâ€•and dosage strategy for pharmaceutically active salts. Chemical Communications, 2010, 46, 1215.	4.1	116
44	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. Crystal Growth and Design, 2013, 13, 965-975.	3.0	115
45	Ionic liquid forms of the herbicide dicamba with increased efficacy and reduced volatility. Green Chemistry, 2013, 15, 2110.	9.0	112
46	Chitinâ€"calcium alginate composite fibers for wound care dressings spun from ionic liquid solution. Journal of Materials Chemistry B, 2014, 2, 3924-3936.	5.8	109
47	Nanodarts, nanoblades, and nanospikes: Mechano-bactericidal nanostructures and where to find them. Advances in Colloid and Interface Science, 2018, 252, 55-68.	14.7	109
48	Drug specific, tuning of an ionic liquid's hydrophilicâ€"lipophilic balance to improve water solubility of poorly soluble active pharmaceutical ingredients. New Journal of Chemistry, 2013, 37, 2196.	2.8	108
49	Simultaneous membrane transport of two active pharmaceutical ingredients by charge assisted hydrogen bond complex formation. Chemical Science, 2014, 5, 3449.	7.4	106
50	Pharmaceutically active ionic liquids with solids handling, enhanced thermal stability, and fast release. Chemical Communications, 2012, 48, 5422.	4.1	104
51	Chitin in ionic liquids: historical insights into the polymer's dissolution and isolation. A review. Green Chemistry, 2019, 21, 3974-3993.	9.0	104
52	Highly selective extraction of the uranyl ion with hydrophobic amidoxime-functionalized ionic liquids via Î·2 coordination. RSC Advances, 2012, 2, 8526.	3.6	102
53	Comparison of Hydrogels Prepared with Ionic-Liquid-Isolated vs Commercial Chitin and Cellulose. ACS Sustainable Chemistry and Engineering, 2016, 4, 471-480.	6.7	100
54	1-Butyl-3-methylimidazolium 3,5-dinitro-1,2,4-triazolate: a novel ionic liquid containing a rigid, planar energetic anion. Chemical Communications, 2005, , 868.	4.1	99

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55	Solid-State Analysis of Low-Melting 1,3-Dialkylimidazolium Hexafluorophosphate Salts (Ionic Liquids) by Combined X-ray Crystallographic and Computational Analyses. Crystal Growth and Design, 2007, 7, 1106-1114.	3.0	97
56	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. Green Chemistry, 2007, 9, 90-98.	9.0	93
57	Ionic Liquid-Based Preparation of Celluloseâ"Dendrimer Films as Solid Supports for Enzyme Immobilization. Biomacromolecules, 2008, 9, 381-387.	5.4	92
58	Prodrug ionic liquids: functionalizing neutral active pharmaceutical ingredients to take advantage of the ionic liquid form. MedChemComm, 2013, 4, 559.	3.4	78
59	In Search of Ionic Liquids Incorporating Azolate Anions. Chemistry - A European Journal, 2006, 12, 4630-4641.	3.3	76
60	Ionic liquids and fragrances â€“ direct isolation of orange essential oil. Green Chemistry, 2011, 13, 1997.	9.0	76
61	Interactions of 1-Methylimidazole with UO2(CH3CO2)2and UO2(NO3)2:Â Structural, Spectroscopic, and Theoretical Evidence for Imidazole Binding to the Uranyl Ion. Journal of the American Chemical Society, 2007, 129, 526-536.	13.7	75
62	A platform for more sustainable chitin films from an ionic liquid process. Green Chemistry, 2017, 19, 117-126.	9.0	75
63	Effect of the ionic liquid 1-ethyl-3-methylimidazolium acetate on the phase transition of starch: Dissolution or gelatinization?. Carbohydrate Polymers, 2013, 94, 520-530.	10.2	74
64	Understanding the structural disorganization of starch in waterâ€“ionic liquid solutions. Physical Chemistry Chemical Physics, 2015, 17, 13860-13871.	2.8	73
65	Pulping of Crustacean Waste Using Ionic Liquids: To Extract or Not To Extract. ACS Sustainable Chemistry and Engineering, 2016, 4, 6072-6081.	6.7	73
66	Efficient dehydration and recovery of ionic liquid after lignocellulosic processing using pervaporation. Biotechnology for Biofuels, 2017, 10, 154.	6.2	72
67	Use of Polyoxometalate Catalysts in Ionic Liquids to Enhance the Dissolution and Delignification of Woody Biomass. ChemSusChem, 2011, 4, 65-73.	6.8	71
68	Characteristics of starch-based films plasticised by glycerol and by the ionic liquid 1-ethyl-3-methylimidazolium acetate: A comparative study. Carbohydrate Polymers, 2014, 111, 841-848.	10.2	69
69	Composite fibers spun directly from solutions of raw lignocellulosic biomass dissolved in ionic liquids. Green Chemistry, 2011, 13, 1158.	9.0	64
70	Transdermal Bioavailability in Rats of Lidocaine in the Forms of Ionic Liquids, Salts, and Deep Eutectic. ACS Medicinal Chemistry Letters, 2017, 8, 498-503.	2.8	64
71	Strategies toward the design of energetic ionic liquids: nitro- and nitrile-substituted N,Nâ€²-dialkylimidazolium salts. New Journal of Chemistry, 2006, 30, 349.	2.8	62
72	Two Herbicides in a Single Compound: Double Salt Herbicidal Ionic Liquids Exemplified with Glyphosate, Dicamba, and MCPA. ACS Sustainable Chemistry and Engineering, 2017, 5, 6261-6273.	6.7	62

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73	Sulfasalazine in ionic liquid form with improved solubility and exposure. MedChemComm, 2015, 6, 1837-1841.	3.4	59
74	An Intermediate for the Clean Synthesis of Ionic Liquids: Isolation and Crystal Structure of 1,3-Dimethylimidazolium Hydrogen Carbonate Monohydrate. Chemistry - A European Journal, 2007, 13, 5207-5212.	3.3	58
75	Facile Preparation of Starch-Based Electroconductive Films with Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2017, 5, 5457-5467.	6.7	58
76	Glyphosate-Based Herbicidal Ionic Liquids with Increased Efficacy. ACS Sustainable Chemistry and Engineering, 2014, 2, 2845-2851.	6.7	57
77	Metsulfuron-Methyl-Based Herbicidal Ionic Liquids. Journal of Agricultural and Food Chemistry, 2015, 63, 3357-3366.	5.2	57
78	Porous Chitin Microbeads for More Sustainable Cosmetics. ACS Sustainable Chemistry and Engineering, 2017, 5, 11660-11667.	6.7	57
79	Coagulation of Chitin and Cellulose from 1â€Ethylâ€3â€methylimidazolium Acetate Ionicâ€Liquid Solutions Using Carbon Dioxide. Angewandte Chemie - International Edition, 2013, 52, 12350-12353.	13.8	56
80	Preparation and comparison of bulk and membrane hydrogels based on Kraft- and ionic-liquid-isolated lignins. Green Chemistry, 2016, 18, 5607-5620.	9.0	56
81	Catalytic ignition of ionic liquids for propellant applications. Chemical Communications, 2010, 46, 8965.	4.1	54
82	Facile pulping of lignocellulosic biomass using choline acetate. Bioresource Technology, 2014, 164, 394-401.	9.6	53
83	Utilization of Cellulose to Its Full Potential: A Review on Cellulose Dissolution, Regeneration, and Applications. Polymers, 2021, 13, 4344.	4.5	53
84	Characteristics of starch-based films with different amylose contents plasticised by 1-ethyl-3-methylimidazolium acetate. Carbohydrate Polymers, 2015, 122, 160-168.	10.2	50
85	Different characteristic effects of ageing on starch-based films plasticised by 1-ethyl-3-methylimidazolium acetate and by glycerol. Carbohydrate Polymers, 2016, 146, 67-79.	10.2	49
86	Dissolution of Starch with Aqueous Ionic Liquid under Ambient Conditions. ACS Sustainable Chemistry and Engineering, 2017, 5, 3737-3741.	6.7	47
87	Scaling-Up Ionic Liquid-Based Technologies: How Much Do We Care About Their Toxicity? Prima Facie Information on 1-Ethyl-3-Methylimidazolium Acetate. Toxicological Sciences, 2018, 161, 249-265.	3.1	47
88	Agricultural uses of chitin polymers. Environmental Chemistry Letters, 2020, 18, 53-60.	16.2	46
89	Toxic on purpose: ionic liquid fungicides as combinatorial crop protecting agents. Green Chemistry, 2011, 13, 2344.	9.0	45
90	Ionic Liquids Based on Azolate Anions. Chemistry - A European Journal, 2010, 16, 1572-1584.	3.3	44

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91	Electrospinning Biopolymers from Ionic Liquids Requires Control of Different Solution Properties than Volatile Organic Solvents. ACS Sustainable Chemistry and Engineering, 2017, 5, 5512-5519.	6.7	44
92	Herbicidal Ionic Liquids: A Promising Future for Old Herbicides? Review on Synthesis, Toxicity, Biodegradation, and Efficacy Studies. Journal of Agricultural and Food Chemistry, 2020, 68, 10456-10488.	5.2	44
93	â€œPracticalâ€•Electrospinning of Biopolymers in Ionic Liquids. ChemSusChem, 2017, 10, 106-111.	6.8	43
94	Controlling the Formation of Ionicâ€Liquidâ€based Aqueous Biphasic Systems by Changing the Hydrogenâ€Bonding Ability of Polyethylene Glycol End Groups. ChemPhysChem, 2015, 16, 2219-2225.	2.1	41
95	Ionic Liquid Platform for Spinning Composite Chitinâ€"Poly(lactic acid) Fibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 10241-10251.	6.7	39
96	Synthesis, limitations, and thermal properties of energetically-substituted, protonated imidazolium picrate and nitrate salts and further comparison with their methylated analogs. New Journal of Chemistry, 2012, 36, 702-722.	2.8	37
97	Acyclovir as an Ionic Liquid Cation or Anion Can Improve Aqueous Solubility. ACS Omega, 2017, 2, 3483-3493.	3.5	36
98	In Search of Stronger/Cheaper Chitin Nanofibers through Electrospinning of Chitinâ€"Cellulose Composites Using an Ionic Liquid Platform. ACS Sustainable Chemistry and Engineering, 2018, 6, 14713-14722.	6.7	36
99	Measuring the Purity of Chitin with a Clean, Quantitative Solid-State NMR Method. ACS Sustainable Chemistry and Engineering, 2017, 5, 8011-8016.	6.7	35
100	Production and Surface Modification of Cellulose Bioproducts. Polymers, 2021, 13, 3433.	4.5	35
101	Polyethylene glycol derivatization of the non-active ion in active pharmaceutical ingredient ionic liquids enhances transdermal delivery. New Journal of Chemistry, 2017, 41, 1499-1508.	2.8	34
102	Convergent synthesis of potent COX-2 inhibitor inotilone. Tetrahedron Letters, 2007, 48, 3767-3769.	1.4	32
103	Enzymatic hydrolysis of ionic liquid-extracted chitin. Carbohydrate Polymers, 2018, 199, 228-235.	10.2	32
104	Practical Approach to Î±- or Î³-Heterosubstituted Enoic Acids. Organic Letters, 2006, 8, 5881-5884.	4.6	31
105	Direct, Atom Efficient, and Halideâ€Free Syntheses of Azolium Azolate Energetic Ionic Liquids and Their Eutectic Mixtures, and Method for Determining Eutectic Composition. Chemistry - A European Journal, 2008, 14, 11314-11319.	3.3	30
106	Exploring the role of ionic liquids to tune the polymorphic outcome of organic compounds. Chemical Science, 2018, 9, 1510-1520.	7.4	30
107	Versatility and remarkable hypergolicity of exo-6, exo-9 imidazole-substituted nido-decaborane. Chemical Communications, 2017, 53, 7736-7739.	4.1	29
108	New hydrogen carbonate precursors for efficient and byproduct-free syntheses of ionic liquids based on 1,2,3-trimethylimidazolium and N,N-dimethylpyrrolidinium cores. Green Chemistry, 2010, 12, 491.	9.0	27

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109	Synthesis of N-cyanoalkyl-functionalized imidazolium nitrate and dicyanamide ionic liquids with a comparison of their thermal properties for energetic applications. New Journal of Chemistry, 2011, 35, 1701.	2.8	27
110	Hydrophobic vs. hydrophilic ionic liquid separations strategies in support of continuous pharmaceutical manufacturing. RSC Advances, 2013, 3, 10019.	3.6	27
111	Overcoming the problems of solid state drug formulations with ionic liquids. Therapeutic Delivery, 2014, 5, 489-491.	2.2	27
112	Ionic Fluids Containing Both Strongly and Weakly Interacting Ions of the Same Charge Have Unique Ionic and Chemical Environments as a Function of Ion Concentration. ChemPhysChem, 2015, 16, 993-1002.	2.1	27
113	Mixed metal double salt ionic liquids comprised of [HN₂₂₂]₂[ZnCl₄] and AlCl₃ provide tunable Lewis acid catalysts related to the ionic environment. Dalton Transactions, 2018, 47, 7795-7803.	3.3	27
114	Enhanced heavy metal adsorption ability of lignocellulosic hydrogel adsorbents by the structural support effect of lignin. Cellulose, 2019, 26, 4005-4019.	4.9	27
115	Use of Ionic Liquids in Chitin Biorefinery: A Systematic Review. Frontiers in Bioengineering and Biotechnology, 2020, 8, 11.	4.1	27
116	Chlorine-free alternatives to the synthesis of ionic liquids for biomass processing. Pure and Applied Chemistry, 2012, 84, 745-754.	1.9	26
117	Oxygen Enhances Polyoxometalate-based Catalytic Dissolution and Delignification of Woody Biomass in Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2014, 2, 2859-2865.	6.7	26
118	Is â€œcholine and geranateâ€•an ionic liquid or deep eutectic solvent system?. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10999.	7.1	26
119	Crystallization of Uranyl Salts from Dialkylimidazolium Ionic Liquids or Their Precursors. European Journal of Inorganic Chemistry, 2010, 2010, 2760-2767.	2.0	24
120	1-Ethyl-3-methylimidazolium hexafluorophosphate: from ionic liquid prototype to antitype. Chemical Communications, 2013, 49, 6011.	4.1	24
121	Elucidating the triethylammonium acetate system: Is it molecular or is it ionic?. Journal of Molecular Liquids, 2018, 269, 126-131.	4.9	24
122	A â€œgreenâ€•industrial revolution: Using chitin towards transformative technologies. Pure and Applied Chemistry, 2013, 85, 1693-1701.	1.9	23
123	Enhanced Dissolution of Chitin Using Acidic Deep Eutectic Solvents: A Sustainable and Simple Approach to Extract Chitin from Crayfish shell Wastes as Alternative Feedstocks. ACS Sustainable Chemistry and Engineering, 2021, 9, 16073-16081.	6.7	23
124	Dissolution of Biomass Using Ionic Liquids. Structure and Bonding, 2014, , 79-105.	1.0	22
125	A method for determining the uniquely high molecular weight of chitin extracted from raw shrimp shells using ionic iquids. Green Chemistry, 2020, 22, 3734-3741.	9.0	22
126	<i>110th Anniversary:</i> High-Molecular-Weight Chitin and Cellulose Hydrogels from Biomass in Ionic Liquids without Chemical Crosslinking. Industrial & Engineering Chemistry Research, 2019, 58, 19862-19876.	3.7	21

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127	The first general synthesis of 3-iodo-4-R-furazans. Heteroatom Chemistry, 2004, 15, 199-207.	0.7	20
128	Double salt ionic liquids based on 1-ethyl-3-methylimidazolium acetate and hydroxyl-functionalized ammonium acetates: strong effects of weak interactions. Physical Chemistry Chemical Physics, 2017, 19, 26934-26943.	2.8	20
129	Singlet Oxygen Production and Tunable Optical Properties of Deacetylated Chitin-Porphyrin Crosslinked Films. Biomacromolecules, 2018, 19, 3291-3300.	5.4	20
130	Physical Insight into Switchgrass Dissolution in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. ACS Sustainable Chemistry and Engineering, 2014, 2, 1264-1269.	6.7	19
131	Ionic Liquids as Fragrance Precursors: Smart Delivery Systems for Volatile Compounds. Industrial & Engineering Chemistry Research, 2018, 57, 16069-16076.	3.7	19
132	Separate mechanisms of ion oligomerization tune the physicochemical properties of n-butylammonium acetate: cation-base clusters vs. anion-acid dimers. Physical Chemistry Chemical Physics, 2017, 19, 25544-25554.	2.8	18
133	EPR Study of the Astaxanthin <i>n</i>-Octanoic Acid Monoester and Diester Radicals on Silicaâ€"Alumina. Journal of Physical Chemistry B, 2012, 116, 13200-13210.	2.6	15
134	Procainium Acetate Versus Procainium Acetate Dihydrate: Irreversible Crystallization of a Room-Temperature Active Pharmaceutical-Ingredient Ionic Liquid upon Hydration. Crystal Growth and Design, 2013, 13, 3290-3293.	3.0	15
135	Applications of Chitin in Agriculture. Sustainable Agriculture Reviews, 2019, , 125-146.	1.1	15
136	Are Myths and Preconceptions Preventing Us from Applying Ionic Liquid Forms of Antiviral Medicines to the Current Health Crisis?. International Journal of Molecular Sciences, 2020, 21, 6002.	4.1	15
137	Synthesis of Anhydrous Acetates for the Components of Nuclear Fuel Recycling in Dialkylimidazolium Acetate Ionic Liquids. Inorganic Chemistry, 2020, 59, 818-828.	4.0	14
138	Cellulose nanocrystals from ionic liquids: a critical review. Green Chemistry, 2021, 23, 6205-6222.	9.0	14
139	A general design platform for ionic liquid ions based on bridged multi-heterocycles with flexible symmetry and charge. Chemical Communications, 2010, 46, 3544.	4.1	13
140	Stereoselective synthesis of cis- or trans-2,4-disubstituted butyrolactones from Wynberg lactone. Tetrahedron, 2012, 68, 5396-5405.	1.9	13
141	Azolate Anions in Ionic Liquids: Promising and Underâ€Utilized Components of the Ionic Liquid Toolbox. Chemistry - A European Journal, 2019, 25, 2127-2140.	3.3	13
142	Chitin extracted from various biomass sources: It's not the same. Fluid Phase Equilibria, 2022, 552, 113286.	2.5	13
143	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. New Journal of Chemistry, 2013, 37, 1461.	2.8	12
144	Isolation of Uranyl Dicyanamide Complexes from N-Donor Ionic Liquids. Inorganic Chemistry, 2015, 54, 10323-10334.	4.0	12

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145	Chloroaluminate Liquid Clathrates: Is It the Cations or the Anions That Drive the Solubility of Aromatics?. Industrial & Engineering Chemistry Research, 2020, 59, 18419-18424.	3.7	12
146	Conversion of Quinine Derivatives into Biologically Active Ionic Liquids: Advantages, Multifunctionality, and Perspectives. ACS Sustainable Chemistry and Engineering, 2020, 8, 9263-9267.	6.7	12
147	Nonstoichiometric, Protic Azolium Azolate Ionic Liquids Provide Unique Environments for Nâ€Donor Coordination Chemistry. Chemistry - A European Journal, 2015, 21, 17196-17199.	3.3	11
148	Ionic liquids for consumer products: Dissolution, characterization, and controlled release of fragrance compositions. Fluid Phase Equilibria, 2017, 450, 51-56.	2.5	11
149	Can Melting Point Trends Help Us Develop New Tools To Control the Crystal Packing of Weakly Interacting Ions?. Crystal Growth and Design, 2018, 18, 597-601.	3.0	11
150	Quantifying the Mineralization of ¹³C-Labeled Cations and Anions Reveals Differences in Microbial Biodegradation of Herbicidal Ionic Liquids between Water and Soil. ACS Sustainable Chemistry and Engineering, 2020, 8, 3412-3426.	6.7	11
151	Confusing Ions on Purpose: How Many Parent Acid Molecules Can Be Incorporated in a Herbicidal Ionic Liquid?. ACS Sustainable Chemistry and Engineering, 2021, 9, 1941-1948.	6.7	11
152	Translational Research from Academia to Industry: Following the Pathway of George Washington Carver. ACS Symposium Series, 2017, , 17-33.	0.5	10
153	Anhydrous Caffeine Hydrochloride and Its Hydration. Crystal Growth and Design, 2012, 12, 4658-4662.	3.0	9
154	Advances in Processing Chitin as a Promising Biomaterial from Ionic Liquids. Advances in Biochemical Engineering/Biotechnology, 2018, 168, 177-198.	1.1	9
155	Switchable carbamate coagulants to improve recycling ionic liquid from biomass solutions. Green Chemical Engineering, 2021, 2, 384-391.	6.3	9
156	Tuning azolium azolate ionic liquids to promote surface interactions with titanium nanoparticles leading to increased passivation and colloidal stability. Physical Chemistry Chemical Physics, 2012, 14, 13194.	2.8	8
157	Structural and Theoretical Study of Salts of the [B₉H₁₄]^{âˆ’} Ion: Isolation of Multiple Isomers and Implications for Energy Storage. ChemPlusChem, 2016, 81, 922-925.	2.8	8
158	Farmed Jumbo shrimp molts: an ionic liquid strategy to increase chitin yield per animal while controlling molecular weight. Green Chemistry, 2020, 22, 6001-6007.	9.0	8
159	Peculiar Behavior of Azolium Azolate Energetic Ionic Liquids. Journal of Physical Chemistry Letters, 2011, 2, 2571-2576.	4.6	7
160	Eliminating The Need For Chemistry. Chemical & Engineering News, 2015, 93, 42-43.	0.1	7
161	Electrical conductivity in two mixed-valence liquids. Physical Chemistry Chemical Physics, 2015, 17, 14107-14114.	2.8	7
162	Ionic Liquids. , 2018, , 218-218.		7

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