Thomas Welton

List of Publications by Year
in descending order

187 papers	38,901 citations	10351 72 h-index	4419 172 g-index
231 all docs	231 docs citations	231 times ranked	22668 citing authors

#	Article	IF	Citations
1	Room-Temperature Ionic Liquids. Solvents for Synthesis and Catalysis. Chemical Reviews, 1999, 99, 2071-2084.	23.0	11,639
2	Room-Temperature Ionic Liquids: Solvents for Synthesis and Catalysis. 2. Chemical Reviews, 2011, 111, 3508-3576.	23.0	4,688
3	Ionic liquids in catalysis. Coordination Chemistry Reviews, 2004, 248, 2459-2477.	9.5	1,463
4	Molecular states of water in room temperature ionic liquidsElectronic Supplementary Information available. See http://www.rsc.org/suppdata/cp/b1/b106900d/. Physical Chemistry Chemical Physics, 2001, 3, 5192-5200.	1.3	1,364
5	Deconstruction of lignocellulosic biomass with ionic liquids. Green Chemistry, 2013, 15, 550.	4.6	1,243
6	Characterizing Ionic Liquids On the Basis of Multiple Solvation Interactions. Journal of the American Chemical Society, 2002, 124, 14247-14254.	6.6	1,036
7	Solventâ€“solute interactions in ionic liquids. Physical Chemistry Chemical Physics, 2003, 5, 2790-2794.	1.3	748
8	Ionic liquids: a brief history. Biophysical Reviews, 2018, 10, 691-706.	1.5	658
9	Mixtures of ionic liquids. Chemical Society Reviews, 2012, 41, 7780.	18.7	520
10	Understanding the polarity of ionic liquids. Physical Chemistry Chemical Physics, 2011, 13, 16831.	1.3	454
11	Characterising the Electronic Structure of Ionic Liquids: An Examination of the 1-Butyl-3-Methylimidazolium Chloride Ion Pair. Chemistry - A European Journal, 2006, 12, 6762-6775.	1.7	427
12	Ionic liquid pretreatment of lignocellulosic biomass with ionic liquidâ€“water mixtures. Green Chemistry, 2011, 13, 2489.	4.6	422
13	Diels-Alder reactions in room-temperature ionic liquids. Tetrahedron Letters, 1999, 40, 793-796.	0.7	390
14	Design of low-cost ionic liquids for lignocellulosic biomass pretreatment. Green Chemistry, 2015, 17, 1728-1734.	4.6	384
15	Combining ionic liquids and supercritical fluids: in situ ATR-IR study of CO2 dissolved in two ionic liquids at high pressures. Chemical Communications, 2000, , 2047-2048.	2.2	379
16	Ionic Liquid-in-Oil Microemulsions. Journal of the American Chemical Society, 2005, 127, 7302-7303.	6.6	371
17	Inexpensive ionic liquids: [HSO₄]^{â^’}-based solvent production at bulk scale. Green Chemistry, 2014, 16, 3098-3106.	4.6	309
18	Hydrogen bonding in imidazolium salts and its implications for ambient-temperature halogenoaluminate(III) ionic liquids. Journal of the Chemical Society Dalton Transactions, 1995, , 3467.	1.1	304

#	Article	IF	Citations
19	The effect of the ionic liquid anion in the pretreatment of pine wood chips. Green Chemistry, 2010, 12, 672.	4.6	294
20	The role of hydrogen bonding in controlling the selectivity of Dielsâ€“Alder reactions in room-temperature ionic liquids. Green Chemistry, 2002, 4, 517-520.	4.6	287
21	Chiral Ionic Liquids as Stationary Phases in Gas Chromatography. Analytical Chemistry, 2004, 76, 6819-6822.	3.2	275
22	Evidence for hydrogen bonding in solutions of 1-ethyl-3-methylimidazolium halides, and its implications for room-temperature halogenoaluminate(III) ionic liquids. Journal of the Chemical Society Dalton Transactions, 1994, , 3405.	1.1	274
23	Doubly ionic hydrogen bond interactions within the choline chlorideâ€“urea deep eutectic solvent. Physical Chemistry Chemical Physics, 2016, 18, 18145-18160.	1.3	272
24	Palladium catalysed Suzuki cross-coupling reactions in ambient temperature ionic liquids. Chemical Communications, 2000, , 1249-1250.	2.2	248
25	Self-assembly in the electrical double layer of ionic liquids. Chemical Communications, 2011, 47, 6572.	2.2	245
26	Solvents and sustainable chemistry. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150502.	1.0	245
27	Manipulating Solute Nucleophilicity with Room Temperature Ionic Liquids. Journal of the American Chemical Society, 2004, 126, 11549-11555.	6.6	226
28	Arene hydrogenation in a room-temperature ionic liquid using a ruthenium cluster catalyst. Chemical Communications, 1999, , 25-26.	2.2	221
29	Extended scale for the hydrogen-bond basicity of ionic liquids. Physical Chemistry Chemical Physics, 2014, 16, 6593.	1.3	218
30	Thermal decomposition of carboxylate ionic liquids: trends and mechanisms. Physical Chemistry Chemical Physics, 2013, 15, 20480.	1.3	217
31	Nucleophilicity in Ionic Liquids. 2.1 Cation Effects on Halide Nucleophilicity in a Series of Bis(trifluoromethylsulfonyl)imide Ionic Liquids. Journal of Organic Chemistry, 2002, 67, 8855-8861.	1.7	191
32	On the origin of ionicity in ionic liquids. Ion pairing versus charge transfer. Physical Chemistry Chemical Physics, 2014, 16, 16880-16890.	1.3	191
33	In Situ Formation of Mixed Phosphineâ^'Imidazolylidene Palladium Complexes in Room-Temperature Ionic Liquids. Organometallics, 2001, 20, 3848-3850.	1.1	184
34	Ionic liquids in Green Chemistry. Green Chemistry, 2011, 13, 225.	4.6	181
35	Hydrogen-bond acceptor abilities of tetrachlorometalate(II) complexes in ionic liquids. Journal of the Chemical Society Dalton Transactions, 1993, , 2639.	1.1	180
36	Decolorization of Ionic Liquids for Spectroscopy. Analytical Chemistry, 2007, 79, 758-764.	3.2	179

#	Article	IF	Citations
37	Salts dissolved in salts: ionic liquid mixtures. Chemical Science, 2011, 2, 1491.	3.7	178
38	Competitive pi interactions and hydrogen bonding within imidazolium ionic liquids. Physical Chemistry Chemical Physics, 2014, 16, 3238.	1.3	173
39	A physicochemical investigation of ionic liquid mixtures. Chemical Science, 2015, 6, 1101-1114.	3.7	171
40	Ionic Liquids as Designer Solvents for Nucleophilic Aromatic Substitutions. Organic Letters, 2007, 9, 5247-5250.	2.4	166
41	Determination of hydrogen concentration in ionic liquids and the effect (or lack of) on rates of hydrogenation. Chemical Communications, 2003, , 2418-2419.	2.2	161
42	Structural changes in lignins isolated using an acidic ionic liquid water mixture. Green Chemistry, 2015, 17, 5019-5034.	4.6	159
43	Ionic liquids: not always innocent solvents for cellulose. Green Chemistry, 2015, 17, 231-243.	4.6	159
44	Cooperativity in ionic liquids. Journal of Chemical Physics, 2006, 124, 174506.	1.2	153
45	Hydrogen Bonding in 1-Butyl- and 1-Ethyl-3-methylimidazolium Chloride Ionic Liquids. Journal of Physical Chemistry B, 2012, 116, 4921-4933.	1.2	150
46	Using Kamletâ^'Taft Solvent Descriptors To Explain the Reactivity of Anionic Nucleophiles in Ionic Liquids. Journal of Organic Chemistry, 2006, 71, 8847-8853.	1.7	148
47	Fractionation of lignocellulosic biomass with the ionic liquid 1-butylimidazolium hydrogen sulfate. Green Chemistry, 2014, 16, 1617.	4.6	148
48	Palladium-Catalyzed Suzuki Cross-Coupling Reactions in Ambient Temperature Ionic Liquids:Â Evidence for the Importance of Palladium Imidazolylidene Complexes. Organometallics, 2003, 22, 5350-5357.	1.1	145
49	Monolayer to Bilayer Structural Transition in Confined Pyrrolidinium-Based Ionic Liquids. Journal of Physical Chemistry Letters, 2013, 4, 378-382.	2.1	145
50	The oxidation of alcohols in substituted imidazolium ionic liquids using ruthenium catalysts. Green Chemistry, 2002, 4, 97-102.	4.6	142
51	Quantized friction across ionic liquid thin films. Physical Chemistry Chemical Physics, 2013, 15, 15317.	1.3	135
52	A rationalization of the solvent effect on the Dielsâ€“Alder reaction in ionic liquids using multiparameter linear solvation energy relationships. Organic and Biomolecular Chemistry, 2008, 6, 2522.	1.5	131
53	Why are ionic liquid ions mainly associated in water? A Carâ€“Parrinello study of 1-ethyl-3-methyl-imidazolium chloride water mixture. Journal of Chemical Physics, 2008, 129, 104505.	1.2	130
54	A closer look into deep eutectic solvents: exploring intermolecular interactions using solvatochromic probes. Physical Chemistry Chemical Physics, 2018, 20, 206-213.	1.3	121

#	Article	IF	Citations
55	1-Butyl-3-methylimidazolium cobalt tetracarbonyl [bmim][Co(CO)4]: a catalytically active organometallic ionic liquid. Chemical Communications, 2001, , 1862-1863.	2.2	119
56	Ionic liquids assisted processing of renewable resources for the fabrication of biodegradable composite materials. Green Chemistry, 2017, 19, 2051-2075.	4.6	118
57	Precise temperature control in microfluidic devices using Joule heating of ionic liquids. Lab on A Chip, 2004, 4, 417.	3.1	114
58	Hydrogen bonding and Ï€â€“Ï€ interactions in imidazolium-chloride ionic liquid clusters. Physical Chemistry Chemical Physics, 2015, 17, 14437-14453.	1.3	113
59	Lignin oxidation and depolymerisation in ionic liquids. Green Chemistry, 2016, 18, 834-841.	4.6	111
60	A study of halide nucleophilicity in ionic liquids. Perkin Transactions II RSC, 2001, , 2267-2270.	1.1	108
61	Nucleophilicity in Ionic Liquids. 3.1Anion Effects on Halide Nucleophilicity in a Series of 1-Butyl-3-methylimidazolium Ionic Liquids. Journal of Organic Chemistry, 2004, 69, 5986-5992.	1.7	108
62	Organometallic synthesis in ambient temperature chloroaluminate(III) ionic liquids. Ligand exchange reactions of ferrocene. Journal of the Chemical Society Dalton Transactions, 1997, , 3465-3469.	1.1	105
63	Charge Screening in the S_N2 Reaction of Charged Electrophiles and Charged Nucleophiles: An Ionic Liquid Effect. Journal of Organic Chemistry, 2009, 74, 1864-1868.	1.7	98
64	Mechanistic insights into lignin depolymerisation in acidic ionic liquids. Green Chemistry, 2016, 18, 5456-5465.	4.6	93
65	A structural investigation of ionic liquid mixtures. Physical Chemistry Chemical Physics, 2016, 18, 8608-8624.	1.3	93
66	Oxidative Depolymerization of Lignin Using a Novel Polyoxometalate-Protic Ionic Liquid System. ACS Sustainable Chemistry and Engineering, 2016, 4, 6031-6036.	3.2	89
67	Metal-containing dendritic polymers. Polyhedron, 1999, 18, 3575-3591.	1.0	86
68	A review on machine learning algorithms for the ionic liquid chemical space. Chemical Science, 2021, 12, 6820-6843.	3.7	80
69	A Highly Selective Arene Hydrogenation Catalyst that Operates in Ionic Liquid. Journal of the American Chemical Society, 2002, 124, 9334-9335.	6.6	79
70	Novel palladium imidazole catalysts for Suzuki cross-coupling reactions. Journal of Molecular Catalysis A, 2003, 206, 77-82.	4.8	79
71	Solvent strength of ionic liquid/CO2 mixtures. Physical Chemistry Chemical Physics, 2004, 6, 3280.	1.3	79
72	The importance of timescale for hydrogen bonding in imidazolium chloride ionic liquids. Physical Chemistry Chemical Physics, 2014, 16, 3675.	1.3	78

#	Article	IF	Citations
73	A temperature-controlled reversible ionic liquid - water two phase - single phase protocol for hydrogenation catalysis. Canadian Journal of Chemistry, 2001, 79, 705-708.	0.6	76
74	Linking the structures, free volumes, and properties of ionic liquid mixtures. Chemical Science, 2017, 8, 6359-6374.	3.7	74
75	Structure and lifetimes in ionic liquids and their mixtures. Faraday Discussions, 2018, 206, 219-245.	1.6	74
76	Targeted modifications in ionic liquids â€“ from understanding to design. Physical Chemistry Chemical Physics, 2021, 23, 6993-7021.	1.3	71
77	A fast atom bombardment mass spectrometric study of room-temperature 1-ethyl-3-methylimidazolium chloroaluminate(III) ionic liquids. Evidence for the existence of the decachlorotrialuminate(III) anion. Organic Mass Spectrometry, 1993, 28, 759-765.	1.3	69
78	N-donor complexes of palladium as catalysts for Suzuki cross-coupling reactions in ionic liquids. Journal of Molecular Catalysis A, 2004, 214, 27-32.	4.8	68
79	Effect of pretreatment severity on the cellulose and lignin isolated from Salix using ionoSolv pretreatment. Faraday Discussions, 2017, 202, 331-349.	1.6	67
80	Nucleophilic Reactions at Cationic Centers in Ionic Liquids and Molecular Solvents. Industrial & Engineering Chemistry Research, 2008, 47, 638-644.	1.8	66
81	New Experimental Density Data and Soft-SAFT Models of Alkylimidazolium ([C_nC₁im]⁺) Chloride (Cl^{â€“}), Methylsulfate ([MeSO₄]^{â^'}), and Dimethylphosphate ([Me₂PO₄]^{â^'}) Based Ionic Liquids. Journal of Physical Chemistry B, 2014, 118, 6206-6221.	1.2	65
82	A step towards the a priori design of ionic liquids. Physical Chemistry Chemical Physics, 2013, 15, 11566.	1.3	62
83	Esterification in Ionic Liquids: The Influence of Solvent Basicity. Journal of Organic Chemistry, 2008, 73, 5585-5588.	1.7	60
84	Interfacial Behavior of Thin Ionic Liquid Films on Mica. Journal of Physical Chemistry C, 2013, 117, 5101-5111.	1.5	60
85	The structure of halogenometallate complexes dissolved in both basic and acidic room-temperature halogenoaluminate(III) ionic liquids, as determined by EXAFS. Journal of the Chemical Society Chemical Communications, 1990, , 315.	2.0	58
86	Willow Lignin Oxidation and Depolymerization under Low Cost Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2016, 4, 5277-5288.	3.2	57
87	Upon the hydrogen-bonding ability of the H4 and H5 protons of the imidazolium cation. Structural Chemistry, 1990, 1, 391-394.	1.0	53
88	Convenient and General Synthesis of Symmetrical N,Nâ€™-Disubstituted Imidazolium Halides. Synthesis, 1996, 1996, 697-698.	1.2	52
89	Regenerated Cellulose and Willow Lignin Blends as Potential Renewable Precursors for Carbon Fibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 5903-5910.	3.2	49
90	A theoretical study of the solvent effect on Diels-Alder reaction in room temperature ionic liquids using a supermolecular approach. Theoretical Chemistry Accounts, 2009, 123, 347-352.	0.5	48

#	Article	IF	Citations
91	Heavy Metal Sensing Using Selfâ€Assembled Nanoparticles at a Liquidâ€“Liquid Interface. Advanced Optical Materials, 2014, 2, 966-977.	3.6	47
92	Increased catalytic productivity for nanofiltration-coupled Heck reactions using highly stable catalyst systems. Green Chemistry, 2002, 4, 319-324.	4.6	46
93	Palladium Catalyzed Reactions in Ionic Liquids. Advances in Organometallic Chemistry, 2004, 51, 251-284.	0.5	44
94	Superbase ionic liquids for effective cellulose processing from dissolution to carbonisation. Green Chemistry, 2017, 19, 5949-5957.	4.6	44
95	Vanadyl complexes in ambient-temperature ionic liquids. The first x-ray crystal structure of a tetrachlorooxovanadate(IV) salt. Polyhedron, 1993, 12, 2039-2044.	1.0	43
96	Unprecedented coupling of vinylidene and allenylidene ligands with dithiocarbamates: X-ray structure of [Ru{C(ĩ˜...Cĩ˜...CPh2)SC(NMe2)S}(S2CNMe2)(CO)(PPh3)]. Journal of Organometallic Chemistry, 1999, 578, 264-267.	0.8	39
97	Understanding siloxane functionalised ionic liquids. Physical Chemistry Chemical Physics, 2010, 12, 2018.	1.3	37
98	Dithiocarbamate-Functionalized Dendrimers as Ligands for Metal Complexes. Inorganic Chemistry, 1998, 37, 3753-3758.	1.9	36
99	Hydrogenation of non-activated alkenes catalysed by water-soluble ruthenium carbonyl clusters using a biphasic protocol. Journal of Molecular Catalysis A, 1999, 150, 71-75.	4.8	36
100	Soaking of pine wood chips with ionic liquids for reduced energy input during grinding. Green Chemistry, 2012, 14, 1079.	4.6	35
101	Determination of Kamletâ€“Taft parameters for selected solvate ionic liquids. Physical Chemistry Chemical Physics, 2016, 18, 13153-13157.	1.3	34
102	Ether functionalisation, ion conformation and the optimisation of macroscopic properties in ionic liquids. Physical Chemistry Chemical Physics, 2020, 22, 23038-23056.	1.3	34
103	The impact of anion electronic structure: similarities and differences in imidazolium based ionic liquids. Journal of Physics Condensed Matter, 2014, 26, 284112.	0.7	33
104	Conformational design concepts for anions in ionic liquids. Chemical Science, 2020, 11, 6405-6422.	3.7	33
105	Enhancing the stability of ionic liquid media for cellulose processing: acetal protection or carbene suppression?. Green Chemistry, 2016, 18, 3758-3766.	4.6	32
106	Synthesis and Structure of Novel Organocycloborates. Chemistry - A European Journal, 2006, 12, 600-606.	1.7	29
107	Evidence for the spontaneous formation of N-heterocyclic carbenes in imidazolium based ionic liquids. Chemical Communications, 2017, 53, 11154-11156.	2.2	29
108	Chloroaluminate(III) ionic liquid mediated synthesis of transition metalâ€“cyclophane; complexes: their role as solvent and Lewis acid catalyst. Journal of Organometallic Chemistry, 1999, 573, 292-298.	0.8	28

#	Article	IF	Citations
109	A quick, simple, robust method to measure the acidity of ionic liquids. Chemical Communications, 2014, 50, 7258-7261.	2.2	28
110	Solvate Ionic Liquids as Reaction Media for Electrocyclic Transformations. European Journal of Organic Chemistry, 2016, 2016, 913-917.	1.2	27
111	Is catalysis in ionic liquids a potentially green technology?. Green Chemistry, 2008, 10, 483.	4.6	25
112	An old reaction in new media: kinetic study of a platinum(II) substitution reaction in ionic liquids. Dalton Transactions, 2009, , 4115.	1.6	25
113	Solubility of alkali metal halides in the ionic liquid [C₄C₁im][OTf]. Physical Chemistry Chemical Physics, 2016, 18, 16161-16168.	1.3	25
114	Control of intramolecular acetateâ€“allenylidene coupling by spectator co-ligand Ï€-acidity. Journal of the Chemical Society Dalton Transactions, 1999, , 1911-1912.	1.1	24
115	Epoxidation of alkenes by Oxoneâ„¢ using 2-alkyl-3,4-dihydroisoquinolinium salts as catalysts in ionic liquids. Journal of Molecular Catalysis A, 2008, 279, 148-152.	4.8	24
116	Effect of an external electric field on the dynamics and intramolecular structures of ions in an ionic liquid. Journal of Chemical Physics, 2019, 151, 164503.	1.2	24
117	Upon the existence of [Al3Cl10]â¯ in room temperature chloroaluminate ionic liquids. Organic Mass Spectrometry, 1989, 24, 917-918.	1.3	23
118	Regioselective Nucleophilic Addition to Vinyl Carbenes (Metallabutadienes):Â Crystal Structure of [Ru{CH(CHCPh2)SC(NMe2)S}(S2CNMe2)(CO)(PPh3)]. Organometallics, 1998, 17, 1916-1918.	1.1	23
119	Electrochemistry of Vanadium Oxides and Oxyhalides in Chloroaluminate Room Temperature Ionic Liquids: Formation of a New Ionic Liquid. Journal of the Electrochemical Society, 2002, 149, A371.	1.3	23
120	Ionic liquids as media for biomass processing: opportunities and restrictions. Holzforschung, 2011, 65, .	0.9	23
121	Study on Gas Permeation and CO₂ Separation through Ionic Liquid-Based Membranes with Siloxane-Functionalized Cations. Industrial & Engineering Chemistry Research, 2017, 56, 2229-2239.	1.8	23
122	Fast atom bombardment mass spectrometric evdence for the formation of tris{tetrachloroaluminate(III)}metallate(II) anions, [M(AlCl4)3]â¯, in acidic ambient-temperature ionic liquids. Organic Mass Spectrometry, 1992, 27, 648-649.	1.3	22
123	Electrospray mass spectrometry of [Ru4(Î·6-C6H6)4(OH)4]4+: first direct evidence for the persistence of the cubane unit in solution and its role as a precatalyst in the hydrogenation of benzene. Inorganic Chemistry Communication, 2001, 4, 571-573.	1.8	22
124	Physicochemical Properties of Ionic Liquids. , 0, , 41-126.		22
125	On the structural origin of free volume in 1-alkyl-3-methylimidazolium ionic liquid mixtures: a SAXS and 129Xe NMR study. Physical Chemistry Chemical Physics, 2019, 21, 5999-6010.	1.3	21
126	On the Carbene-Like Reactions of Imidazolium Acetate Ionic Liquids: Can Theory and Experiments Agree?. European Journal of Organic Chemistry, 2019, 2019, 504-511.	1.2	21

#	Article	IF	Citations
127	The effect of structural heterogeneity upon the microviscosity of ionic liquids. Chemical Science, 2020, 11, 6121-6133.	3.7	21
128	Pressing matter: why are ionic liquids so viscous?. Chemical Science, 2022, 13, 2735-2743.	3.7	19
129	The chemistry of East Asian lacquer: A review of the scientific literature. Studies in Conservation, 2007, 52, 29-40.	0.6	18
130	The potential of methylsiloxanes as solvents for synthetic chemistry applications. Green Chemistry, 2014, 16, 1282-1296.	4.6	18
131	Ionic liquids for metal extraction from chalcopyrite: solid, liquid and gas phase studies. Physical Chemistry Chemical Physics, 2017, 19, 21556-21564.	1.3	18
132	All solutions have a solvent. Green Chemistry, 2006, 8, 13-13.	4.6	17
133	Design of task-specific fluorinated ionic liquids: nanosegregation versus hydrogen-bonding ability in aqueous solutions. Chemical Communications, 2018, 54, 3524-3527.	2.2	17
134	MAS NMR Investigation of Molecular Order in an Ionic Liquid Crystal. Journal of Physical Chemistry B, 2020, 124, 4975-4988.	1.2	17
135	Synthesis of aprotic ionic liquids. Nature Reviews Methods Primers, 2022, 2, .	11.8	17
136	Vanadium chloride and chloride oxide complexes in an ambient-temperature ionic liquid. The first use of bis(trichloromethyl) carbonate as a substitute for phosgene in an inorganic system. Journal of the Chemical Society Dalton Transactions, 1996, , 2787.	1.1	16
137	Synthesis and Purification of Ionic Liquids. , 0, , 7-40.		16
138	Preparation of [Al(hfip)₄]^{â^'}â€Based Ionic Liquids with Siloxaneâ€Functionalized Cations and Their Physical Properties in Comparison with Their [Tf₂N]^{â^'} Analogues. ChemPhysChem, 2012, 13, 1802-1805.	1.0	16
139	The impact of ionic liquids on the coordination of anions with solvatochromic copper complexes. Dalton Transactions, 2017, 46, 12185-12200.	1.6	15
140	Process Analysis of Ionic Liquid-Based Blends as H₂S Absorbents: Search for Thermodynamic/Kinetic Synergies. ACS Sustainable Chemistry and Engineering, 2021, 9, 2080-2088.	3.2	15
141	Curled cation structures accelerate the dynamics of ionic liquids. Physical Chemistry Chemical Physics, 2021, 23, 21042-21064.	1.3	14
142	Energy and environmental analysis of flavonoids extraction from bark using alternative solvents. Journal of Cleaner Production, 2021, 308, 127286.	4.6	14
143	A robotic platform for high-throughput electrochemical analysis of chalcopyrite leaching. Green Chemistry, 2016, 18, 1930-1937.	4.6	13
144	Azoniaspiro salts: towards bridging the gap between room-temperature ionic liquids and molten salts. Physical Chemistry Chemical Physics, 2016, 18, 3339-3351.	1.3	13

#	Article	IF	Citations
145	Extraction of flavonoid compounds from bark using sustainable deep eutectic solvents. Sustainable Chemistry and Pharmacy, 2021, 24, 100544.	1.6	13
146	How Polar are Ionic Liquids?. ECS Transactions, 2009, 16, 33-38.	0.3	12
147	Investigation of the influence of natural deep eutectic solvents (NaDES) in the properties of chitosan-stabilised films. Materials Advances, 2021, 2, 3954-3964.	2.6	12
148	Removal of oxide contamination from ambient-temperature chloroaluminate(III) ionic liquids. Journal of the Chemical Society Dalton Transactions, 1993, , 3283.	1.1	11
149	Alkylideneâ€“Dithiocarbamate couplingâ€”crystal structure of [Ru{Î¹2-CH(C6H4OMe-4)SC(NC4H8)S}{Î¹2-S2CNC4H8}(CO)(PPh3)]. New Journal of Chemistry, 1998, 22, 311-314.	1.4	11
150	1:1 Imidazolium 7,7',8,8'-Tetracyano-p-quinodimethanide ([TCNQ].bul.-) Salts: Substituent Control of Solid-State Architecture. Chemistry of Materials, 1994, 6, 1106-1108.	3.2	10
151	The removal of oxide impurities from room temperature halogenoaluminate ionic liquids. Journal of the Chemical Society Chemical Communications, 1987, , 1643.	2.0	9
152	An Electrochemical Study of the Ruthenium(III) and â€(IV) Hexachlorometallates in a Basic Room Temperature Chloroaluminate Molten Salt. Journal of the Electrochemical Society, 1991, 138, 2590-2594.	1.3	9
153	Organic Synthesis. , 0, , 174-288.		7
154	Novel organocycloborates via Grignard reagentsElectronic supplementary information (ESI) available: experimental details and 1H, 13C and 11B NMR data for 1, 2, 3and 4, single crystal X-ray data and additional figures for 3and 4. See http://www.rsc.org/suppdata/cc/b4/b404864d/. Chemical Communications, 2004, , 1738.	2.2	7
155	[BMIM][PF6] Promotes the Synthesis of Halohydrin Esters from Diols Using Potassium Halides. Analytical Sciences, 2008, 24, 1341-1345.	0.8	7
156	Mixing divalent ionic liquids: effects of charge and side-chains. Physical Chemistry Chemical Physics, 2021, 23, 4624-4635.	1.3	7
157	Observation of the Pockels Effect in Ionic Liquids and Insights into the Length Scale of Potential-Induced Ordering. Langmuir, 2021, 37, 5193-5201.	1.6	7
158	Polymer Synthesis in Ionic Liquids. , 0, , 319-335.		6
159	Basicity and catalytic activity of porous materials based on a (Si,Al)-N framework. Applied Catalysis A: General, 2016, 520, 157-169.	2.2	6
160	High throughput study of ionic liquids in controlled environments with FTIR spectroscopic imaging. Journal of Molecular Liquids, 2021, 337, 116412.	2.3	6
161	Effect of the cation structure on the properties of homobaric imidazolium ionic liquids. Physical Chemistry Chemical Physics, 2022, 24, 6453-6468.	1.3	6
162	Polymer Synthesis in Ionic Liquids. , 0, , 619-640.		5

#	Article	IF	Citations
163	In Search of an "Ionic Liquid Effect". ECS Transactions, 2009, 16, 81-87.	0.3	5
164	Understanding Reactions in Ionic Liquids. ACS Symposium Series, 2005, , 218-232.	0.5	4
165	Inorganic Synthesis. , 0, , 289-318.		3
166	Non-traditional solvent effects in organic reactions. Physical Chemistry Chemical Physics, 2021, 23, 26028-26029.	1.3	3
167	Dynamic Supramolecular Chemistry: The Role of Hydrogen Bonding in Controlling the Selectivity of Diels-Alder Reactions in Room-Temperature Ionic Liquids. ACS Symposium Series, 2002, , 241-246.	0.5	2
168	Biocatalytic Reactions in Ionic Liquids. , 0, , 336-347.		2
169	Building an Inclusive Culture in the Chemistry Department at Imperial College. Chemistry - A European Journal, 2016, 22, 3535-3536.	1.7	2
170	Ionic Liquids as Solvents for Organic Synthesis. , 2003, , 457-464.		2
171	How do external forces related to mass and charge affect the structures and dynamics of an ionic liquid?. Journal of Chemical Physics, 0, , .	1.2	2
172	Mechanical spectroscopy study of ionic liquids with quaternary cations: Effect of conformational flexibility. Journal of Alloys and Compounds, 2022, 919, 165860.	2.8	2
173	Palladium-Catalyzed Carbonâ€"Carbon Coupling Reactions in Room-Temperature Ionic Liquids. ACS Symposium Series, 2002, , 310-320.	0.5	1
174	The sustainable chemist. Materials Today, 2008, 11, 56.	8.3	1
175	Correction: Determination of Kamletâ€"Taft parameters for selected solvate ionic liquids. Physical Chemistry Chemical Physics, 2016, 18, 19975-19975.	1.3	1
176	Sustainability and international chemistry collaboration. National Science Review, 2021, 8, nwab037.	4.6	1
177	An easy and reliable method for syringyl: guaiacyl ratio measurement. Tappi Journal, 2017, 16, 145-152.	0.2	1
178	Molecular Structure and Dynamics. , 0, , 127-173.		0
179	Synthesis and Catalysis in Room-Temperature Ionic Liquids. ChemInform, 2003, 34, no.	0.1	0
180	Ionic Liquids as Solvents for Organic Synthesis. ChemInform, 2004, 35, no.	0.1	0

#	Article	IF	Citations
181	Palladium-Catalyzed Reactions in Ionic Liquids. ChemInform, 2004, 35, no.	0.1	0
182	Understanding Reactions in Ionic Liquids. ChemInform, 2006, 37, no.	0.1	0
183	Esterification in Ionic Liquids: The Influence of Solvent Basicity. ECS Transactions, 2009, 16, 103-106.	0.3	0
184	Ken Seddonâ€"obituary. Biophysical Reviews, 2018, 10, 707-707.	1.5	0
185	Synthesis and Catalysis in Room-Temperature Ionic Liquids. , 2002, , 345-355.		0
186	Use of Ionic Liquids for the Biorefinery. , 2018, , 1-33.		0
187	Use of Ionic Liquids for the Biorefinery. , 2019, , 223-255.		0