

# Andrew Abbott

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2182445/andrew-abbott-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

216  
papers

21,361  
citations

58  
h-index

145  
g-index

239  
ext. papers

24,924  
ext. citations

6.1  
avg, IF

7.14  
L-index

#	Paper	IF	Citations
216	Deep eutectic solvents (DESs) and their applications. <i>Chemical Reviews</i> , <b>2014</b> , 114, 11060-82	68.1	2938
215	Novel solvent properties of choline chloride/urea mixtures. <i>Chemical Communications</i> , <b>2003</b> , 70-1	5.8	2681
214	Deep eutectic solvents formed between choline chloride and carboxylic acids: versatile alternatives to ionic liquids. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 9142-7	16.4	2355
213	Recycling lithium-ion batteries from electric vehicles. <i>Nature</i> , <b>2019</b> , 575, 75-86	50.4	735
212	Application of ionic liquids to the electrodeposition of metals. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 4265-79	3.6	625
211	On the concept of ionicity in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 4962-7	3.6	545
210	Glycerol eutectics as sustainable solvent systems. <i>Green Chemistry</i> , <b>2011</b> , 13, 82-90	10	539
209	Preparation of novel, moisture-stable, Lewis-acidic ionic liquids containing quaternary ammonium salts with functional side chains. <i>Chemical Communications</i> , <b>2001</b> , 2010-1	5.8	537
208	Solubility of Metal Oxides in Deep Eutectic Solvents Based on Choline Chloride. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2006</b> , 51, 1280-1282	2.8	403
207	Eutectic-based ionic liquids with metal-containing anions and cations. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 6495-501	4.8	383
206	Electrodeposition of zinc in alloys from deep eutectic solvents based on choline chloride. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 599, 288-294	4.1	344
205	Extraction of glycerol from biodiesel into a eutectic based ionic liquid. <i>Green Chemistry</i> , <b>2007</b> , 9, 868	10	327
204	Application of hole theory to define ionic liquids by their transport properties. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4910-3	3.4	321
203	Design of improved deep eutectic solvents using hole theory. <i>ChemPhysChem</i> , <b>2006</b> , 7, 803-6	3.2	303
202	Molecular motion and ion diffusion in choline chloride based deep eutectic solvents studied by 1H pulsed field gradient NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 21383-91	3.6	289
201	Selective extraction of metals from mixed oxide matrixes using choline-based ionic liquids. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 6497-9	5.1	273
200	Electrodeposition of copper composites from deep eutectic solvents based on choline chloride. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 4269-77	3.6	257

199	Ionic liquids based upon metal halide/substituted quaternary ammonium salt mixtures. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 3447-52	5.1	253
198	Processing of metals and metal oxides using ionic liquids. <i>Green Chemistry</i> , <b>2011</b> , 13, 471	10	247
197	Ionic liquid analogues formed from hydrated metal salts. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 3769-74	7.8	243
196	Application of hole theory to the viscosity of ionic and molecular liquids. <i>ChemPhysChem</i> , <b>2004</b> , 5, 1242-6	5.2	216
195	O-Acetylation of cellulose and monosaccharides using a zinc based ionic liquid. <i>Green Chemistry</i> , <b>2005</b> , 7, 705	10	188
194	Electroplating Using Ionic Liquids. <i>Annual Review of Materials Research</i> , <b>2013</b> , 43, 335-358	12.8	186
193	Quaternary ammonium zinc- or tin-containing ionic liquids: water insensitive, recyclable catalysts for Diels-Alder reactions. <i>Green Chemistry</i> , <b>2002</b> , 4, 24-26	10	171
192	In-situ activation of self-supported 3D hierarchically porous Ni <sub>3</sub> S <sub>2</sub> films grown on nanoporous copper as excellent pH-universal electrocatalysts for hydrogen evolution reaction. <i>Nano Energy</i> , <b>2017</b> , 36, 85-94	17.1	159
191	Do all ionic liquids need organic cations? Characterisation of [AlCl <sub>2</sub> ImAmide] <sup>+</sup> AlCl <sub>4</sub> <sup>-</sup> and comparison with imidazolium based systems. <i>Chemical Communications</i> , <b>2011</b> , 47, 3523-5	5.8	159
190	Molecular and ionic diffusion in aqueous - deep eutectic solvent mixtures: probing inter-molecular interactions using PFG NMR. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 15297-15304	3.6	158
189	Voltammetric and impedance studies of the electropolishing of type 316 stainless steel in a choline chloride based ionic liquid. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 4420-4425	6.7	156
188	The effect of additives on zinc electrodeposition from deep eutectic solvents. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5272-5279	6.7	154
187	Electropolishing of stainless steels in a choline chloride based ionic liquid: an electrochemical study with surface characterisation using SEM and atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 4214-21	3.6	137
186	Cationic functionalisation of cellulose using a choline based ionic liquid analogue. <i>Green Chemistry</i> , <b>2006</b> , 8, 784	10	135
185	Electrodeposition of nickel using eutectic based ionic liquids. <i>Transactions of the Institute of Metal Finishing</i> , <b>2008</b> , 86, 234-240	1.3	131
184	Selective Cross-Coupling of 2-Naphthol and 2-Naphthylamine Derivatives. A Facile Synthesis of 2,2,3-Trisubstituted and 2,2,3,3-Tetrasubstituted 1,1'-Binaphthyls. <i>Journal of Organic Chemistry</i> , <b>1994</b> , 59, 2156-2163	4.2	131
183	The electrodeposition of silver composites using deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 2443-9	3.6	129
182	Electrofinishing of metals using eutectic based ionic liquids. <i>Transactions of the Institute of Metal Finishing</i> , <b>2008</b> , 86, 196-204	1.3	125

181	Model for the conductivity of ionic liquids based on an infinite dilution of holes. <i>ChemPhysChem</i> , <b>2005</b> , 6, 2502-5	3.2	121
180	EXAFS study into the speciation of metal salts dissolved in ionic liquids and deep eutectic solvents. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 6280-8	5.1	119
179	Double layer effects on metal nucleation in deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 10224-31	3.6	113
178	Aluminium electrodeposition under ambient conditions. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 14675-81	3.6	108
177	A Comparative Study of Nickel Electrodeposition Using Deep Eutectic Solvents and Aqueous Solutions. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 718-726	6.7	106
176	Ionometallurgy: designer redox properties for metal processing. <i>Chemical Communications</i> , <b>2011</b> , 47, 10031-3	5.8	106
175	Evaluating water miscible deep eutectic solvents (DESs) and ionic liquids as potential lubricants. <i>Green Chemistry</i> , <b>2014</b> , 16, 4156-4161	10	105
174	The regiospecific Fischer indole reaction in choline chloride.2ZnCl <sub>2</sub> with product isolation by direct sublimation from the ionic liquid. <i>Chemical Communications</i> , <b>2004</b> , 158-9	5.8	102
173	Electroless deposition of metallic silver from a choline chloride-based ionic liquid: a study using acoustic impedance spectroscopy, SEM and atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 3735-43	3.6	97
172	The application of deep eutectic solvent ionic liquids for environmentally-friendly dissolution and recovery of precious metals. <i>Minerals Engineering</i> , <b>2016</b> , 87, 18-24	4.9	94
171	Speciation, physical and electrolytic properties of eutectic mixtures based on CrCl <sub>3</sub> /H <sub>2</sub> O and urea. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 9047-55	3.6	91
170	Electropolishing of stainless steel in an ionic liquid. <i>Transactions of the Institute of Metal Finishing</i> , <b>2005</b> , 83, 51-53	1.3	86
169	Sustained electroless deposition of metallic silver from a choline chloride-based ionic liquid. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 2033-2039	4.4	85
168	Double layer, diluent and anode effects upon the electrodeposition of aluminium from chloroaluminate based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 1862-72	3.6	79
167	Anodic dissolution of metals in ionic liquids. <i>Progress in Natural Science: Materials International</i> , <b>2015</b> , 25, 595-602	3.6	77
166	Efficient continuous synthesis of high purity deep eutectic solvents by twin screw extrusion. <i>Chemical Communications</i> , <b>2016</b> , 52, 4215-8	5.8	76
165	Electrolytic deposition of Zn coatings from ionic liquids based on choline chloride. <i>Transactions of the Institute of Metal Finishing</i> , <b>2009</b> , 87, 201-207	1.3	76
164	Electrodeposition of aluminium and aluminium/platinum alloys from AlCl <sub>3</sub> /benzyltrimethylammonium chloride room temperature ionic liquids. <i>Journal of Applied Electrochemistry</i> , <b>2001</b> , 31, 1345-1350	2.6	75

163	Non-classical diffusion in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 10147-54	3.6	71
162	Processing of Electric Arc Furnace Dust using Deep Eutectic Solvents. <i>Australian Journal of Chemistry</i> , <b>2009</b> , 62, 341	1.2	70
161	Conductivity of tetra-alkylammonium salts in polyaromatic solvents. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1990</b> , 86, 1453		68
160	Liquid pharmaceuticals formulation by eutectic formation. <i>Fluid Phase Equilibria</i> , <b>2017</b> , 448, 2-8	2.5	64
159	The importance of design in lithium ion battery recycling – a critical review. <i>Green Chemistry</i> , <b>2020</b> , 22, 7585-7603	10	62
158	Metal complexation in ionic liquids. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2008</b> , 104, 21		56
157	Salt modified starch: sustainable, recyclable plastics. <i>Green Chemistry</i> , <b>2012</b> , 14, 1302	10	55
156	Lubrication of Steel/Steel Contacts by Choline Chloride Ionic Liquids. <i>Tribology Letters</i> , <b>2010</b> , 37, 103-110.8		55
155	Electrocatalytic recovery of elements from complex mixtures using deep eutectic solvents. <i>Green Chemistry</i> , <b>2015</b> , 17, 2172-2179	10	51
154	Nanostructure of the deep eutectic solvent/platinum electrode interface as a function of potential and water content. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 158-168	10.8	49
153	Influence of additives on the electrodeposition of zinc from a deep eutectic solvent. <i>Electrochimica Acta</i> , <b>2019</b> , 304, 118-130	6.7	47
152	Brønsted acidity in deep eutectic solvents and ionic liquids. <i>Faraday Discussions</i> , <b>2018</b> , 206, 365-377	3.6	47
151	Bright metal coatings from sustainable electrolytes: the effect of molecular additives on electrodeposition of nickel from a deep eutectic solvent. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3219-3231	3.6	46
150	Electrodeposition of Chromium Black from Ionic Liquids. <i>Transactions of the Institute of Metal Finishing</i> , <b>2004</b> , 82, 14-17	1.3	46
149	Electrochemical investigations in supercritical carbon dioxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1996</b> , 92, 3895		46
148	Ionic liquids form ideal solutions. <i>Chemical Communications</i> , <b>2011</b> , 47, 11876-8	5.8	45
147	Thermodynamics of phase transfer for polar molecules from alkanes to deep eutectic solvents. <i>Fluid Phase Equilibria</i> , <b>2017</b> , 448, 99-104	2.5	42
146	Time resolved in situ liquid atomic force microscopy and simultaneous acoustic impedance electrochemical quartz crystal microbalance measurements: a study of Zn deposition. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 8466-71	7.8	42

145	Novel Ambient Temperature Ionic Liquids for Zinc and Zinc Alloy Electrodeposition. <i>Transactions of the Institute of Metal Finishing</i> , <b>2001</b> , 79, 204-206	1.3	41
144	Electrochemical Reduction of CO <sub>2</sub> in a Mixed Supercritical Fluid. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 775-779	3.4	40
143	Electrodeposition of copper in alloys using deep eutectic solvents. <i>Transactions of the Institute of Metal Finishing</i> , <b>2016</b> , 94, 104-113	1.3	40
142	Electrochemical investigations in liquid and supercritical 1,1,1,2-tetrafluoroethane (HFC 134a) and difluoromethane (HFC 32). <i>Journal of Electroanalytical Chemistry</i> , <b>1998</b> , 457, 1-4	4.1	39
141	Solvent Properties of Liquid and Supercritical Hydrofluorocarbons. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 2504-2509	3.4	36
140	Facile fabrication of nickel nanostructures on a copper-based template via a galvanic replacement reaction in a deep eutectic solvent. <i>Electrochemistry Communications</i> , <b>2016</b> , 70, 60-64	5.1	34
139	Electrochemical fabrication of nanoporous copper films in choline chloride-urea deep eutectic solvent. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 14702-9	3.6	33
138	In situ electrochemical digital holographic microscopy; a study of metal electrodeposition in deep eutectic solvents. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6653-60	7.8	32
137	Processing metal oxides using ionic liquids. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , <b>2006</b> , 115, 15-18		32
136	Direct extraction of copper from copper sulfide minerals using deep eutectic solvents. <i>Green Chemistry</i> , <b>2019</b> , 21, 6502-6512	10	32
135	Solvation of carbohydrates in five choline chloride-based deep eutectic solvents and the implication for cellulose solubility. <i>Green Chemistry</i> , <b>2019</b> , 21, 4673-4682	10	31
134	Synthesis of a base-stock for electrical insulating fluid based on palm kernel oil. <i>Industrial Crops and Products</i> , <b>2011</b> , 33, 532-536	5.9	31
133	Solvent Properties of Liquid and Supercritical 1,1,1,2-Tetrafluoroethane. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 8574-8578	3.4	31
132	Dissolution of pyrite and other FeS <sub>2</sub> minerals using deep eutectic solvents. <i>Green Chemistry</i> , <b>2017</b> , 19, 2225-2233	10	29
131	Do group 1 metal salts form deep eutectic solvents?. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 25528-25537	3.2	29
130	The effect of pH and hydrogen bond donor on the dissolution of metal oxides in deep eutectic solvents. <i>Green Chemistry</i> , <b>2020</b> , 22, 5476-5486	10	29
129	Probing the structure of gas expanded liquids using relative permittivity, density and polarity measurements. <i>Green Chemistry</i> , <b>2009</b> , 11, 1530	10	28
128	Conductivity of (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> N BF <sub>4</sub> in Liquid and Supercritical Hydrofluorocarbons. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 9351-9355	3.4	28

127	Processing of Leather Using Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1241-1247	8.3	26
126	Electropolishing of nickel and cobalt in deep eutectic solvents. <i>Transactions of the Institute of Metal Finishing</i> , <b>2018</b> , 96, 200-205	1.3	26
125	Metal finishing with ionic liquids: scale-up and pilot plants from IONMET consortium. <i>Transactions of the Institute of Metal Finishing</i> , <b>2010</b> , 88, 285-293	1.3	26
124	Ligand exchange in ionic systems and its effect on silver nucleation and growth. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 17314-23	3.6	25
123	Electrolytic processing of superalloy aerospace castings using choline chloride-based ionic liquids. <i>Transactions of the Institute of Metal Finishing</i> , <b>2012</b> , 90, 9-14	1.3	25
122	Relative Permittivity Measurements of 1,1,1,2-Tetrafluoroethane (HFC 134a), Pentafluoroethane (HFC 125), and Difluoromethane (HFC 32). <i>Journal of Chemical &amp; Engineering Data</i> , <b>1999</b> , 44, 112-115	2.8	25
121	Electron transfer between amphiphilic ferrocenes and electrodes in cationic micellar solution. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 11091-11095		25
120	Correlations between solvent polarity scales and electron transfer kinetics and an application to micellar media. <i>Journal of Electroanalytical Chemistry</i> , <b>1992</b> , 327, 31-46	4.1	25
119	Thermoplastic starch/polyethylene blends homogenised using deep eutectic solvents. <i>RSC Advances</i> , <b>2017</b> , 7, 7268-7273	3.7	23
118	Starch as a replacement for urea-formaldehyde in medium density fibreboard. <i>Green Chemistry</i> , <b>2012</b> , 14, 3067	10	23
117	Glycol based plasticisers for salt modified starch. <i>RSC Advances</i> , <b>2014</b> , 4, 40421-40427	3.7	22
116	Solubility of Substituted Aromatic Hydrocarbons in Supercritical Difluoromethane. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2002</b> , 47, 900-905	2.8	22
115	Double layer capacitance and conductivity studies of long chain quaternary ammonium electrolytes in supercritical carbon dioxide. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 839-841	3.6	21
114	Tetrakis(decyl)ammonium tetraphenylborate: a novel electrolyte for non-polar media. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1996</b> , 92, 1747		21
113	Conductivity of long chain quaternary ammonium electrolytes in cyclohexane. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 577-582		20
112	Pilot trials of immersion silver deposition using a choline chloride based ionic liquid. <i>Circuit World</i> , <b>2010</b> , 36, 3-9	0.7	18
111	Effect of electrolyte concentration on the viscosity and voltammetry of supercritical solutions. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 6702-8	7.8	18
110	Electrolytic Metal Coatings and Metal Finishing Using Ionic Liquids. <i>ECS Transactions</i> , <b>2009</b> , 16, 47-63	1	17

109	Electrochemical oxidation as alternative for dissolution of metal oxides in deep eutectic solvents. <i>Green Chemistry</i> , <b>2020</b> , 22, 8360-8368	10	16
108	Effect of water on the electrodeposition of copper on nickel in deep eutectic solvents. <i>Transactions of the Institute of Metal Finishing</i> , <b>2019</b> , 97, 321-329	1.3	16
107	Effect of side chains on the dielectric properties of alkyl esters derived from palm kernel oil <b>2011</b> ,		16
106	Solvent Properties of Supercritical CO <sub>2</sub> /HFC134a Mixtures. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 8790-8793	3.4	16
105	Complexes of Rh(C <sub>5</sub> Me <sub>5</sub> ) with picolinic acid, pyrones and pyridinones. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1995</b> , 3709		16
104	Solvent effects on electron-transfer kinetics: a correlation of rate constants with solvent acidity, basicity, and polarizability parameters. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 8910-8912		16
103	Recovery of yttrium and europium from spent fluorescent lamps using pure levulinic acid and the deep eutectic solvent levulinic acid-choline chloride.. <i>RSC Advances</i> , <b>2020</b> , 10, 28879-28890	3.7	16
102	Deep eutectic solvents: alternative reaction media for organic oxidation reactions. <i>Reaction Chemistry and Engineering</i> , <b>2021</b> , 6, 582-598	4.9	16
101	Paint casting: A facile method of studying mineral electrochemistry. <i>Electrochemistry Communications</i> , <b>2017</b> , 76, 20-23	5.1	15
100	Electrochemistry in media of low dielectric constant. <i>Chemical Society Reviews</i> , <b>1993</b> , 22, 435	58.5	15
99	Mechanism of selective gold extraction from multi-metal chloride solutions by electrodeposition-redox replacement. <i>Green Chemistry</i> , <b>2020</b> , 22, 3615-3625	10	14
98	Nanomagnetic domains of chromium deposited on vertically-aligned carbon nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 4170-4174	2.8	14
97	Effect of ionic equilibria on redox potentials in supercritical difluoromethane. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 579-582	3.6	14
96	Effect of solute polarity on extraction efficiency using deep eutectic solvents. <i>Green Chemistry</i> , <b>2021</b> , 23, 5097-5105	10	14
95	Electrochemical Studies of Ambient Temperature Ionic Liquids Based on Choline Chloride. <i>ACS Symposium Series</i> , <b>2003</b> , 439-452	0.4	13
94	Lithium ion battery recycling using high-intensity ultrasonication. <i>Green Chemistry</i> , <b>2021</b> , 23, 4710-4715	10	13
93	To shred or not to shred: A comparative techno-economic assessment of lithium ion battery hydrometallurgical recycling retaining value and improving circularity in LIB supply chains. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 175, 105741	11.9	13
92	Electrodeposition of Metals83-123		13



91	Solubility of unsaturated carboxylic acids in supercritical 1,1,1,2-tetrafluoroethane (HFC 134a) and a methodology for the separation of ternary mixtures. <i>Green Chemistry</i> , <b>2005</b> , 7, 210	10	12
90	Electrochemical recognition of chiral species using quaternary ammonium binaphthyl salts. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 4002-6	7.8	12
89	Analysis of dipolarity/polarisability parameter, $\beta$ , for a range of supercritical fluids. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 3722-3726	3.6	12
88	Double Layer Structure in a Supercritical Fluid. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 6157-6159	3.4	12
87	Novel Room Temperature Molten Salts for Aluminium Electrodeposition. <i>Transactions of the Institute of Metal Finishing</i> , <b>1999</b> , 77, 26-28	1.3	12
86	Potential dependence of the interfacial impedance of p-(100) silicon in KOH. <i>Journal of Electroanalytical Chemistry</i> , <b>1992</b> , 328, 355-360	4.1	12
85	Titanium electrodeposition from aromatic solvents. <i>Journal of Electroanalytical Chemistry</i> , <b>1993</b> , 347, 153-164	4.1	12
84	Separation of iron(iii), zinc(ii) and lead(ii) from a choline chloride-ethylene glycol deep eutectic solvent by solvent extraction.. <i>RSC Advances</i> , <b>2020</b> , 10, 33161-33170	3.7	12
83	Globular and Fibrous Proteins Modified with Deep Eutectic Solvents: Materials for Drug Delivery. <i>Molecules</i> , <b>2019</b> , 24,	4.8	11
82	Evidence supporting an emulsion polymerisation mechanism for the formation of polyaniline. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136737	6.7	11
81	Nanoscale Clustering of Alcoholic Solutes in Deep Eutectic Solvents Studied by Nuclear Magnetic Resonance and Dynamic Light Scattering. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 15086-15092	8.3	11
80	Electropolishing and Electroplating of Metals Using Ionic Liquids Based on Choline Chloride. <i>ACS Symposium Series</i> , <b>2007</b> , 186-197	0.4	11
79	Hydrogen Bond Interactions in Liquid and Supercritical Hydrofluorocarbons. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 10628-10633	3.4	11
78	Oxidation of Molybdenum(0) and Tungsten(0) Carbonyl Complexes with Silver Triflate. <i>Organometallics</i> , <b>1997</b> , 16, 3690-3695	3.8	10
77	Probing solute clustering in supercritical solutions using solvatochromic parameters. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 8119-25	3.4	10
76	Equilibrium Reactions in Supercritical Difluoromethane. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 4922-4926	3.4	10
75	Controlling phase behaviour on gas expansion of fluid mixtures. <i>Green Chemistry</i> , <b>2009</b> , 11, 1536	10	9
74	Hydrogenation in supercritical 1,1,1,2 tetrafluoroethane (HFC 134a). <i>Green Chemistry</i> , <b>2005</b> , 7, 721	10	9

73	Iron(III) chloride and acetamide eutectic for the electrodeposition of iron and iron based alloys. <i>Electrochimica Acta</i> , <b>2020</b> , 351, 136414	6.7	8
72	Two versatile new routes to dinuclear molybdenum dithiolene complexes. <i>Chemical Communications</i> , <b>1998</b> , 389-390	5.8	8
71	Physical Properties of Ionic Liquids for Electrochemical Applications47-82		8
70	Effect of solutes on the viscosity of supercritical solutions. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 8114-8	3.4	8
69	Pressure effects on Friedel-Crafts alkylation reactions in supercritical difluoromethane. <i>ChemPhysChem</i> , <b>2005</b> , 6, 466-72	3.2	8
68	CO <sub>2</sub> /HFC 134a mixtures: alternatives for supercritical fluid extraction. <i>Green Chemistry</i> , <b>2000</b> , 2, 63-66	10	8
67	Synthesis of novel donor-acceptor twins. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , <b>2000</b> , 3356-3361		8
66	Anisotropic etching of silicon at high pressure. <i>Journal of Electroanalytical Chemistry</i> , <b>1993</b> , 348, 473-479	4.1	8
65	Electrochemistry: general discussion. <i>Faraday Discussions</i> , <b>2018</b> , 206, 405-426	3.6	8
64	Lubrication studies of some type III deep eutectic solvents (DESS) <b>2017</b> ,		7
63	Study of silver electrodeposition in deep eutectic solvents using atomic force microscopy. <i>Transactions of the Institute of Metal Finishing</i> , <b>2018</b> , 96, 297-303	1.3	7
62	Synthesis of Ionic Liquids15-46		7
61	Ionic Liquid-Solid Interfaces <b>2017</b> , 321-343		6
60	Redox fusion of metal particles using deep eutectic solvents. <i>Chemical Communications</i> , <b>2018</b> , 54, 3049-3052	3.5	6
59	Double-layer studies in solutions of low relative permittivity. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 3981-3984		6
58	Investigating the dissolution of iron sulfide and arsenide minerals in deep eutectic solvents. <i>Hydrometallurgy</i> , <b>2020</b> , 198, 105511	4	6
57	Shifting Desulfurization Equilibria in Ionic Liquid-Oil Mixtures. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 1106-1113	4.1	6
56	Electrodeposition of Semiconductors in Ionic Liquids147-165		6

55	Potential Dependence of Surfactant Adsorption at the Graphite Electrode/Deep Eutectic Solvent Interface. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 5331-5337	6.4	5
54	Polymerisation of methyl methacrylate in supercritical difluoromethane. <i>Green Chemistry</i> , <b>2004</b> , 6, 81	10	5
53	Quartz crystal microbalance study of the adsorption of ions onto gold from non-aqueous solvents. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1994</b> , 90, 1533		5
52	Controlled release of pharmaceutical agents using eutectic modified gelatin. <i>Drug Delivery and Translational Research</i> , <b>2021</b> , 1	6.2	5
51	Why use Ionic Liquids for Electrodeposition?1-13		5
50	Future Directions and Challenges369-377		5
49	Electrodeposition of Alloys125-146		5
48	Experimental Visualization of Commercial Lithium Ion Battery Cathodes: Distinguishing Between the Microstructure Components Using Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 14622-14631	3.8	4
47	Voltammetry in non-aqueous solvents: artefacts arising from slow electrolyte desorption. <i>Journal of Electroanalytical Chemistry</i> , <b>2002</b> , 520, 6-12	4.1	4
46	Metal deposition from aromatic solvents. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1989</b> , 261, 449-453		4
45	Debondable adhesives and their use in recycling. <i>Green Chemistry</i> , <b>2022</b> , 24, 36-61	10	4
44	Gamma-phase Zn-Ni alloy deposition by pulse-electroplating from a modified deep eutectic solution. <i>Surface and Coatings Technology</i> , <b>2020</b> , 403, 126434	4.4	4
43	Deep eutectic solvents Teaching nature lessons that it knew already. <i>Advances in Botanical Research</i> , <b>2021</b> , 97, 1-16	2.2	4
42	Phase behaviour and thermodynamics: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 206, 113-139	3.6	4
41	Physical Properties of Ionic Liquids for Electrochemical Applications <b>2017</b> , 55-94		3
40	Polymer modification using difluoromethane (HFC 32) and carbon dioxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 1072-1083	2.6	3
39	Corrosion of iron, nickel and aluminium in deep eutectic solvents. <i>Electrochimica Acta</i> , <b>2021</b> , 397, 139284	6.7	3
38	Technical Aspects287-351		3

37	Why Use Ionic Liquids for Electrodeposition? <b>2017</b> , 1-15		2
36	Synthesis of Ionic Liquids <b>2017</b> , 17-53		2
35	Electrodeposition of Alloys <b>2017</b> , 157-186		2
34	What Is an Ionic Liquid? <b>2015</b> , 1-12		2
33	Electrochemical recognition of analytes using quaternary ammonium binaphthyl salts. <i>Analyst, The</i> , <b>2003</b> , 128, 245-8	5	2
32	Electrochemical recognition of charged species using quaternary ammonium binaphthyl salts. <i>Analyst, The</i> , <b>2001</b> , 126, 1892-6	5	2
31	Novel complexes with new electro-optic properties. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 1935		2
30	Enhanced solvent properties of aromatic hydrocarbon mixtures. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1988</b> , 256, 477-480		2
29	New solvents for Electroplating. <i>Transactions of the Institute of Metal Finishing</i> , <b>1988</b> , 66, 99-101	1.3	2
28	Chemical Dissolution of Chalcopyrite Concentrate in Choline Chloride Ethylene Glycol Deep Eutectic Solvent. <i>Minerals (Basel, Switzerland)</i> , <b>2022</b> , 12, 65	2.4	2
27	Calcium chloride-based systems for metal electrodeposition. <i>Electrochimica Acta</i> , <b>2021</b> , 402, 139560	6.7	2
26	3-D printed polyvinyl alcohol matrix for detection of airborne pathogens in respiratory bacterial infections. <i>Microbiological Research</i> , <b>2020</b> , 241, 126587	5.3	2
25	Mechanical properties of 3-D printed polyvinyl alcohol matrix for detection of respiratory pathogens. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 112, 104066	4.1	2
24	Plasma Electrochemistry with Ionic Liquids 259-285		2
23	Electrodeposition of Metals <b>2017</b> , 95-155		1
22	Conducting Polymers <b>2017</b> , 211-252		1
21	Technical Aspects <b>2017</b> , 401-468		1
20	Electrodeposition of Semiconductors from Ionic Liquids <b>2017</b> , 187-210		1

19	From Test Tube to Turner [The Role of the Chemist in Art. <i>Science Progress</i> , <b>2013</b> , 96, 398-416	1.1	1
18	Conducting Polymers167-211		1
17	Green Organometallic Chemistry <b>2007</b> , 837-864		1
16	Chapter 10:Environmentally Sustainable Solvent-based Process Chemistry for Metals in Printed Circuit Boards. <i>Issues in Environmental Science and Technology</i> , <b>2019</b> , 278-312	0.7	1
15	Na NMR T relaxation measurements as a probe for diffusion and dynamics of sodium ions in salt-glycerol mixtures. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 224501	3.9	1
14	Amidine-based ionic liquid analogues with AlCl <sub>3</sub> : a credible new electrolyte for rechargeable Al batteries. <i>Chemical Communications</i> , <b>2021</b> , 57, 9834-9837	5.8	1
13	A Unified Method for the Recovery of Metals from Chalcogenides. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 2929-2936	8.3	1
12	Plating Protocols353-367		1
11	Nanostructured Metals and Alloys Deposited from Ionic Liquids213-238		1
10	Electrodeposition on the Nanometer Scale: In Situ Scanning Tunneling Microscopy239-257		1
9	Catalytic dissolution of metals from printed circuit boards using a calcium chlorideBased deep eutectic solvent. <i>Green Chemistry</i> , <b>2022</b> , 24, 3023-3034	10	1
8	Influence of the Alkali-promoted phase transformation in monazite for selective recovery of rare-oxides using deep eutectic solvents. <i>Minerals Engineering</i> , <b>2022</b> , 182, 107564	4.9	0
7	Impedance Spectroscopy on Electrode   Ionic Liquid Interfaces <b>2017</b> , 373-399		
6	Plating Protocols <b>2017</b> , 469-482		
5	Future Directions and Challenges <b>2017</b> , 483-490		
4	Nanostructured Materials <b>2017</b> , 253-320		
3	Plasma Electrochemistry with Ionic Liquids <b>2017</b> , 345-371		
2	Ionic liquids at interfaces: general discussion. <i>Faraday Discussions</i> , <b>2018</b> , 206, 549-586	3.6	

1 Bio-based Materials Using Deep Eutectic Solvent Modifiers **2022**, 133-149