Jason P Hallett

List of Publications by Year
in descending order

163 papers	26,068 citations	31949 53 h-index	6294 158 g-index
175 all docs	175 docs citations	175 times ranked	25442 citing authors

#	Article	IF	Citations
1	The Path Forward for Biofuels and Biomaterials. Science, 2006, 311, 484-489.	6.0	4,935
2	Room-Temperature Ionic Liquids: Solvents for Synthesis and Catalysis. 2. Chemical Reviews, 2011, 111, 3508-3576.	23.0	4,688
3	Carbon capture and storage (CCS): the way forward. Energy and Environmental Science, 2018, 11, 1062-1176.	15.6	2,378
4	Carbon capture and storage update. Energy and Environmental Science, 2014, 7, 130-189.	15.6	1,765
5	An overview of CO2 capture technologies. Energy and Environmental Science, 2010, 3, 1645.	15.6	1,376
6	Green and Sustainable Solvents in Chemical Processes. Chemical Reviews, 2018, 118, 747-800.	23.0	1,253
7	Deconstruction of lignocellulosic biomass with ionic liquids. Green Chemistry, 2013, 15, 550.	4.6	1,243
8	Mixtures of ionic liquids. Chemical Society Reviews, 2012, 41, 7780.	18.7	520
9	Understanding the polarity of ionic liquids. Physical Chemistry Chemical Physics, 2011, 13, 16831.	1.3	454
10	Design of low-cost ionic liquids for lignocellulosic biomass pretreatment. Green Chemistry, 2015, 17, 1728-1734.	4.6	384
11	The multi-scale challenges of biomass fast pyrolysis and bio-oil upgrading: Review of the state of art and future research directions. Progress in Energy and Combustion Science, 2019, 71, 1-80.	15.8	316
12	Inexpensive ionic liquids: [HSO₄]^{â˜’}-based solvent production at bulk scale. Green Chemistry, 2014, 16, 3098-3106.	4.6	309
13	An economically viable ionic liquid for the fractionation of lignocellulosic biomass. Green Chemistry, 2017, 19, 3078-3102.	4.6	296
14	The effect of the ionic liquid anion in the pretreatment of pine wood chips. Green Chemistry, 2010, 12, 672.	4.6	294
15	Extended scale for the hydrogen-bond basicity of ionic liquids. Physical Chemistry Chemical Physics, 2014, 16, 6593.	1.3	218
16	From wood to fuels: Integrating biofuels and pulp production. Industrial Biotechnology, 2006, 2, 55-65.	0.5	213
17	Salts dissolved in salts: ionic liquid mixtures. Chemical Science, 2011, 2, 1491.	3.7	178
18	Thermal Stability and Explosive Hazard Assessment of Diazo Compounds and Diazo Transfer Reagents. Organic Process Research and Development, 2020, 24, 67-84.	1.3	166

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19	Structural changes in lignins isolated using an acidic ionic liquid water mixture. Green Chemistry, 2015, 17, 5019-5034.	4.6	159
20	Sustainable Reactions in Tunable Solvents. Journal of Physical Chemistry B, 2004, 108, 18108-18118.	1.2	150
21	Fractionation of lignocellulosic biomass with the ionic liquid 1-butylimidazolium hydrogen sulfate. Green Chemistry, 2014, 16, 1617.	4.6	148
22	Recent advances in the pretreatment of lignocellulosic biomass. Current Opinion in Green and Sustainable Chemistry, 2019, 20, 11-17.	3.2	135
23	Homogeneous Catalyzed Reactions of Levulinic Acid: To Î³â€Valerolactone and Beyond. ChemSusChem, 2016, 9, 2037-2047.	3.6	120
24	Lignin oxidation and depolymerisation in ionic liquids. Green Chemistry, 2016, 18, 834-841.	4.6	111
25	Quantitative glucose release from softwood after pretreatment with low-cost ionic liquids. Green Chemistry, 2019, 21, 692-703.	4.6	111
26	Rapid pretreatment of <i>Miscanthus</i> using the low-cost ionic liquid triethylammonium hydrogen sulfate at elevated temperatures. Green Chemistry, 2018, 20, 3486-3498.	4.6	100
27	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
28	Determination of solvatochromic solvent parameters for the characterization of gas-expanded liquids. Journal of Supercritical Fluids, 2005, 36, 16-22.	1.6	97
29	Mechanistic insights into lignin depolymerisation in acidic ionic liquids. Green Chemistry, 2016, 18, 5456-5465.	4.6	93
30	A structural investigation of ionic liquid mixtures. Physical Chemistry Chemical Physics, 2016, 18, 8608-8624.	1.3	93
31	Oxidative Depolymerization of Lignin Using a Novel Polyoxometalate-Protic Ionic Liquid System. ACS Sustainable Chemistry and Engineering, 2016, 4, 6031-6036.	3.2	89
32	Solubilizing and Stabilizing Proteins in Anhydrous Ionic Liquids through Formation of Proteinâ€"Polymer Surfactant Nanoconstructs. Journal of the American Chemical Society, 2016, 138, 4494-4501.	6.6	87
33	Techno-economic assessment of biomass gasification-based mini-grids for productive energy applications: The case of rural India. Renewable Energy, 2020, 154, 432-444.	4.3	82
34	Role of life-cycle externalities in the valuation of protic ionic liquids â€" a case study in biomass pretreatment solvents. Green Chemistry, 2020, 22, 3132-3140.	4.6	76
35	Non-aqueous homogenous biocatalytic conversion of polysaccharides in ionic liquids using chemically modified glucosidase. Nature Chemistry, 2018, 10, 859-865.	6.6	75
36	Investigation of the Chemocatalytic and Biocatalytic Valorization of a Range of Different Lignin Preparations: The Importance of Î²-O-4 Content. ACS Sustainable Chemistry and Engineering, 2016, 4, 6921-6930.	3.2	74

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37	Beyond 90% capture: Possible, but at what cost?. International Journal of Greenhouse Gas Control, 2021, 105, 103239.	2.3	74
38	Melting Point Depression of Ionic Liquids with CO₂:â€‰ Phase Equilibria. Industrial & Engineering Chemistry Research, 2008, 47, 493-501.	1.8	69
39	Solvent selection and design for CO₂capture â€“ how we might have been missing the point. Sustainable Energy and Fuels, 2017, 1, 2078-2090.	2.5	69
40	Challenges and opportunities for the utilisation of ionic liquids as solvents for CO₂capture. Molecular Systems Design and Engineering, 2018, 3, 560-571.	1.7	68
41	Highly Selective and Near-Quantitative Conversion of Fructose to 5-Hydroxymethylfurfural Using Mildly Acidic Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2014, 2, 978-981.	3.2	67
42	Effect of pretreatment severity on the cellulose and lignin isolated from Salix using ionoSolv pretreatment. Faraday Discussions, 2017, 202, 331-349.	1.6	67
43	Nucleophilic Reactions at Cationic Centers in Ionic Liquids and Molecular Solvents. Industrial & Engineering Chemistry Research, 2008, 47, 638-644.	1.8	66
44	Probing the Cybotactic Region in Gas-Expanded Liquids (GXLs). Accounts of Chemical Research, 2006, 39, 531-538.	7.6	65
45	New Experimental Density Data and Soft-SAFT Models of Alkylimidazolium ([C_{<i>n</i>}C₁im]⁺) Chloride (Cl^{â€“}), Methylsulfate ([MeSO₄]^{âˆ’}), and Dimethylphosphate ([Me₂PO₄]^{âˆ’}) Based Ionic Liquids. Journal of Physical Chemistry B, 2014, 118, 6206-6221.	1.2	65
46	Lead acid battery recycling for the twenty-first century. Royal Society Open Science, 2018, 5, 171368.	1.1	65
47	Developments in electrochemical processes for recycling leadâ€“acid batteries. Current Opinion in Electrochemistry, 2019, 16, 83-89.	2.5	65
48	Pretreatment of South African sugarcane bagasse using a low-cost protic ionic liquid: a comparison of whole, depithed, fibrous and pith bagasse fractions. Biotechnology for Biofuels, 2018, 11, 247.	6.2	64
49	Tunable Solvents for Homogeneous Catalyst Recycle. Industrial & Engineering Chemistry Research, 2004, 43, 1586-1590.	1.8	61
50	Esterification in Ionic Liquids: The Influence of Solvent Basicity. Journal of Organic Chemistry, 2008, 73, 5585-5588.	1.7	60
51	Tunable solvents for fine chemicals from the biorefinery. Green Chemistry, 2007, 9, 545.	4.6	58
52	Revealing the complexity of ionic liquidâ€“protein interactions through a multi-technique investigation. Communications Chemistry, 2020, 3, .	2.0	56
53	High-pressure phase equilibria of some carbon dioxideâ€“organicâ€“water systems. Fluid Phase Equilibria, 2004, 224, 143-154.	1.4	54
54	CO2-Induced Miscibility of Fluorous and Organic Solvents for Recycling Homogeneous Catalysts. Industrial & Engineering Chemistry Research, 2004, 43, 4827-4832.	1.8	51

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55	Piperylene sulfone: a labile and recyclable DMSO substitute. Chemical Communications, 2007, , 1427.	2.2	50
56	Strategies for the Separation of the Furanic Compounds HMF, DFF, FFCA, and FDCA from Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 16483-16492.	3.2	50
57	Design of a combined ionosolv-organosolv biomass fractionation process for biofuel production and high value-added lignin valorisation. Green Chemistry, 2020, 22, 5161-5178.	4.6	50
58	Production of oligosaccharides and biofuels from Miscanthus using combinatorial steam explosion and ionic liquid pretreatment. Bioresource Technology, 2021, 323, 124625.	4.8	49
59	From Lignin to Chemicals: Hydrogenation of Lignin Models and Mechanistic Insights into Hydrodeoxygenation via Low-Temperature Câ€“O Bond Cleavage. ACS Catalysis, 2019, 9, 2345-2354.	5.5	48
60	From sugars to FDCA: a techno-economic assessment using a design concept based on solvent selection and carbon dioxide emissions. Green Chemistry, 2021, 23, 1716-1733.	4.6	47
61	Use and recovery of a homogeneous catalyst with carbon dioxide as a solubility switchElectronic supplementary information (ESI) available: methods of preparation of fluorous silica and complexes 1 and 2. See http://www.rsc.org/suppdata/cc/b3/b311146f/. Chemical Communications, 2003, , 2972.	2.2	46
62	Pretreatment of Lignocellulosic Biomass with Low-cost Ionic Liquids. Journal of Visualized Experiments, 2016, , .	0.2	45
63	Liquidâ^'Liquid Equilibria for Binary Mixtures of Water + Acetophenone, + 1-Octanol, + Anisole, and + Toluene from 370 K to 550 K. Journal of Chemical & Engineering Data, 2000, 45, 846-850.	1.0	43
64	Use of phosphonium ionic liquids for highly efficient extraction of phenolic compounds from water. Separation and Purification Technology, 2020, 248, 117069.	3.9	43
65	Protein from renewable resources: mycoprotein production from agricultural residues. Green Chemistry, 2021, 23, 5150-5165.	4.6	42
66	Reversible <i>in Situ</i> Catalyst Formation. Accounts of Chemical Research, 2008, 41, 458-467.	7.6	39
67	Characterisation of cellulose pulps isolated from Miscanthus using a low-cost acidic ionic liquid. Cellulose, 2020, 27, 4745-4761.	2.4	39
68	Understanding siloxane functionalised ionic liquids. Physical Chemistry Chemical Physics, 2010, 12, 2018.	1.3	37
69	Molecular Dynamics Simulation of the Cybotactic Region in Gas-Expanded Methanolâ^'Carbon Dioxide and Acetoneâ^'Carbon Dioxide Mixtures. Journal of Physical Chemistry B, 2006, 110, 24101-24111.	1.2	36
70	Hydroformylation Catalyst Recycle with Gas-Expanded Liquids. Industrial & Engineering Chemistry Research, 2008, 47, 2585-2589.	1.8	36
71	Interplay of Acidâ€“Base Ratio and Recycling on the Pretreatment Performance of the Protic Ionic Liquid Monoethanolammonium Acetate. ACS Sustainable Chemistry and Engineering, 2020, 8, 7952-7961.	3.2	36
72	Self-neutralizing in situ Acid Catalysts from CO2. Topics in Catalysis, 2006, 37, 75-80.	1.3	35

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73	Soaking of pine wood chips with ionic liquids for reduced energy input during grinding. Green Chemistry, 2012, 14, 1079.	4.6	35
74	Efficient Fractionation of Lignin- and Ash-Rich Agricultural Residues Following Treatment With a Low-Cost Protic Ionic Liquid. Frontiers in Chemistry, 2019, 7, 246.	1.8	35
75	Fractionation by Sequential Antisolvent Precipitation of Grass, Softwood, and Hardwood Lignins Isolated Using Low-Cost Ionic Liquids and Water. ACS Sustainable Chemistry and Engineering, 2020, 8, 3751-3761.	3.2	34
76	The Highly Selective and Near-Quantitative Conversion of Glucose to 5-Hydroxymethylfurfural Using Ionic Liquids. PLoS ONE, 2016, 11, e0163835.	1.1	34
77	Self-Neutralizing in Situ Acid Catalysis for Single-Pot Synthesis of Iodobenzene and Methyl Yellow in CO₂-Expanded Methanol. Industrial & Engineering Chemistry Research, 2007, 46, 5252-5257.	1.8	31
78	Rapid, Highâ€Yield Fructose Dehydration to 5â€Hydroxymethylfurfural in Mixtures of Water and the Noncoordinating Ionic Liquid [bmim][OTf]. ChemSusChem, 2019, 12, 4452-4460.	3.6	31
79	On the Use of Differential Scanning Calorimetry for Thermal Hazard Assessment of New Chemistry: Avoiding Explosive Mistakes. Angewandte Chemie - International Edition, 2020, 59, 15798-15802.	7.2	30
80	Efficient Formation of 2,5-Diformylfuran in Ionic Liquids at High Substrate Loadings and Low Oxygen Pressure with Separation through Sublimation. ACS Sustainable Chemistry and Engineering, 2020, 8, 2462-2471.	3.2	30
81	Characterization and Valorization of Humins Produced by HMF Degradation in Ionic Liquids: A Valuable Carbonaceous Material for Antimony Removal. ACS Sustainable Chemistry and Engineering, 2021, 9, 2212-2223.	3.2	30
82	Evaluating the Role of Water as a Cosolvent and an Antisolvent in [HSO₄]-Based Protic Ionic Liquid Pretreatment. ACS Sustainable Chemistry and Engineering, 2021, 9, 10524-10536.	3.2	30
83	Techno-economic assessment of the production of phthalic anhydride from corn stover. Chemical Engineering Research and Design, 2016, 107, 181-194.	2.7	29
84	Evidence for the spontaneous formation of N-heterocyclic carbenes in imidazolium based ionic liquids. Chemical Communications, 2017, 53, 11154-11156.	2.2	29
85	A quick, simple, robust method to measure the acidity of ionic liquids. Chemical Communications, 2014, 50, 7258-7261.	2.2	28
86	Biocatalytic Reaction And Recycling by Using CO2-Induced Organicâ€“Aqueous Tunable Solvents. Angewandte Chemie - International Edition, 2006, 45, 4670-4673.	7.2	27
87	Coupling chiral homogeneous biocatalytic reactions with benign heterogeneous separation. Green Chemistry, 2007, 9, 888.	4.6	26
88	Diffusion Coefficients of Carbon Dioxide in Brines Measured Using ¹³C Pulsed-Field Gradient Nuclear Magnetic Resonance. Journal of Chemical & Engineering Data, 2015, 60, 181-184.	1.0	26
89	Direct Catalytic Conversion of Cellulose to 5-Hydroxymethylfurfural Using Ionic Liquids. Inorganics, 2016, 4, 32.	1.2	26
90	Effective pretreatment of lignin-rich coconut wastes using a low-cost ionic liquid. Scientific Reports, 2022, 12, 6108.	1.6	26

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91	Solubility of alkali metal halides in the ionic liquid [C₄C₁im][OTf]. Physical Chemistry Chemical Physics, 2016, 18, 16161-16168.	1.3	25
92	Thermally-Stable Imidazolium Dicationic Ionic Liquids with Pyridine Functional Groups. ACS Sustainable Chemistry and Engineering, 2020, 8, 8762-8772.	3.2	25
93	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
94	Towards an environmentally and economically sustainable biorefinery: heavy metal contaminated waste wood as a low-cost feedstock in a low-cost ionic liquid process. Green Chemistry, 2020, 22, 5032-5041.	4.6	24
95	A Spectroscopic and Computational Exploration of the Cybotactic Region of Gas-Expanded Liquids:â€‰ Methanol and Acetone. Journal of Physical Chemistry B, 2008, 112, 4666-4673.	1.2	23
96	In-depth process parameter investigation into a protic ionic liquid pretreatment for 2G ethanol production. Renewable Energy, 2021, 172, 816-828.	4.3	21
97	Structural characterization and DFT study of VIVO(acac)2 in imidazolium ionic liquids. Physical Chemistry Chemical Physics, 2011, 13, 15094.	1.3	20
98	Toward a Circular Economy: Decontamination and Valorization of Postconsumer Waste Wood Using the ionoSolv Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 14441-14461.	3.2	20
99	Zinc 1s Valence-to-Core X-ray Emission Spectroscopy of Halozincate Complexes. Journal of Physical Chemistry A, 2019, 123, 9552-9559.	1.1	18
100	<i>Eucalyptus red grandis</i> pretreatment with protic ionic liquids: effect of severity and influence of sub/super-critical CO₂ atmosphere on pretreatment performance. RSC Advances, 2020, 10, 16050-16060.	1.7	18
101	Biorefinery potential of sustainable municipal wastewater treatment using fast-growing willow. Science of the Total Environment, 2021, 792, 148146.	3.9	18
102	Production of Food-Grade Glucose from Rice and Wheat Residues Using a Biocompatible Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2021, 9, 8080-8089.	3.2	17
103	High yield and isolation of 2,5-furandicarboxylic acid from HMF and sugars in ionic liquids, a new prospective for the establishment of a scalable and efficient catalytic route. Green Chemistry, 2022, 24, 3309-3313.	4.6	17
104	Diazo-Transfer Reagent 2-Azido-4,6-dimethoxy-1,3,5-triazine Displays Highly Exothermic Decomposition Comparable to Tosyl Azide. Journal of Organic Chemistry, 2019, 84, 5893-5898.	1.7	16
105	Ultra-Low Cost Ionic Liquids for the Delignification of Biomass. ACS Symposium Series, 2017, , 209-223.	0.5	15
106	Electrodeposition of lead from methanesulfonic acid and methanesulfonate ionic liquid derivatives. Electrochimica Acta, 2020, 353, 136460.	2.6	15
107	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
108	Demetallization of Sewage Sludge Using Low-Cost Ionic Liquids. Environmental Science & Technology, 2021, 55, 5291-5300.	4.6	15

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109	Process intensification of the ionoSolv pretreatment: effects of biomass loading, particle size and scale-up from 10ÂmL to 1ÂL. Scientific Reports, 2021, 11, 15383.	1.6	15
110	Evaluating the potential of a novel hardwood biomass using a superbase ionic liquid. RSC Advances, 2021, 11, 19095-19105.	1.7	15
111	An experimental approach probing the conformational transitions and energy landscape of antibodies: a glimmer of hope for reviving lost therapeutic candidates using ionic liquid. Chemical Science, 2021, 12, 9528-9545.	3.7	14
112	Application of VIVO(acac)2 type complexes in the desulfurization of fuels with ionic liquids. Catalysis Today, 2012, 196, 119-125.	2.2	13
113	Rhododendron and Japanese Knotweed: invasive species as innovative crops for second generation biofuels for the ionoSolv process. RSC Advances, 2021, 11, 18395-18403.	1.7	13
114	Hazardous Creosote Wood Valorization via Fractionation and Enzymatic Saccharification Coupled with Simultaneous Extraction of the Embedded Polycyclic Aromatic Hydrocarbons Using Protic Ionic Liquid Media. ACS Sustainable Chemistry and Engineering, 2021, 9, 704-716.	3.2	13
115	Pretreatment of biomass with protic ionic liquids. Trends in Chemistry, 2022, 4, 175-178.	4.4	13
116	How Polar are Ionic Liquids?. ECS Transactions, 2009, 16, 33-38.	0.3	12
117	From waste to food: Optimising the breakdown of oil palm waste to provide substrate for insects farmed as animal feed. PLoS ONE, 2019, 14, e0224771.	1.1	12
118	Expanding the design space of gel materials through ionic liquid mediated mechanical and structural tuneability. Materials Horizons, 2020, 7, 820-826.	6.4	12
119	Techno-economic assessment for a pumped thermal energy storage integrated with open cycle gas turbine and chemical looping technology. Energy Conversion and Management, 2022, 255, 115332.	4.4	12
120	Exploring the Effect of Water Content and Anion on the Pretreatment of Poplar with Three 1-Ethyl-3-methylimidazolium Ionic Liquids. Molecules, 2020, 25, 2318.	1.7	10
121	A life cycle approach to solvent design: challenges and opportunities for ionic liquids â€" application to CO₂ capture. Reaction Chemistry and Engineering, 2021, 6, 258-278.	1.9	9
122	Commercial Aspects of Biomass Deconstruction with Ionic Liquids. Green Chemistry and Sustainable Technology, 2020, , 87-127.	0.4	9
123	Halometallate ionic liquids: thermal properties, decomposition pathways, and life cycle considerations. Green Chemistry, 2022, 24, 5800-5812.	4.6	9
124	Liquidâ€"liquid equilibria and partitioning in organicâ€"aqueous systems. Fluid Phase Equilibria, 2007, 253, 48-53.	1.4	8
125	Ion chromatography for monitoring [NTf₂]^{âˆ’} anion contaminants in pure and saline water. Analytical Methods, 2020, 12, 2244-2252.	1.3	8
126	Solventâ€free liquid avidin as a step toward cold chain elimination. Biotechnology and Bioengineering, 2021, 118, 592-600.	1.7	8

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127	Exploring conformational preferences of proteins: ionic liquid effects on the energy landscape of avidin. Chemical Science, 2021, 12, 196-209.	3.7	8
128	Linking the Thermal and Electronic Properties of Functional Dicationic Salts with Their Molecular Structures. ACS Sustainable Chemistry and Engineering, 2021, 9, 6224-6234.	3.2	8
129	Sustainability Assessment of Alternative Synthesis Routes to Aprotic Ionic Liquids: The Case of 1-Butyl-3-methylimidazolium Tetrafluoroborate for Fuel Desulfurization. ACS Sustainable Chemistry and Engineering, 2022, 10, 323-331.	3.2	8
130	New Biobased Sulfonated Anionic Surfactants Based on the Esterification of Furoic Acid and Fatty Alcohols: A Green Solution for the Replacement of Oil Derivative Surfactants with Superior Proprieties. ACS Sustainable Chemistry and Engineering, 2022, 10, 8846-8855.	3.2	8
131	Use of ionic liquids to minimize sodium induced internal diesel injector deposits (IDIDs). Molecular Systems Design and Engineering, 2018, 3, 397-407.	1.7	7
132	Thermally robust solvent-free biofluids of M13 bacteriophage engineered for high compatibility with anhydrous ionic liquids. Chemical Communications, 2019, 55, 10752-10755.	2.2	7
133	Implications for Heavy Metal Extractions from Hyper Saline Brines with [NTf2]âˆ’ Ionic Liquids: Performance, Solubility, and Cost. Industrial & Engineering Chemistry Research, 2020, 59, 12536-12544.	1.8	7
134	Oxidative ionothermal synthesis for micro and macro Zn-based materials. Materials Advances, 2020, 1, 3597-3604.	2.6	7
135	Combining phytoremediation and biorefinery: Metal extraction from lead contaminated Miscanthus during pretreatment using the ionoSolv process. Industrial Crops and Products, 2022, 176, 114259.	2.5	7
136	Phase-Transfer-Catalyzed Alkylation of Phenylacetonitrile in Supercritical Ethane. Industrial & Engineering Chemistry Research, 2002, 41, 1763-1767.	1.8	6
137	Vaporâ€“liquidâ€“liquid equilibria of perfluorohexane+CO2+methanol, +toluene, and +acetone at 313K. Fluid Phase Equilibria, 2006, 241, 20-24.	1.4	6
138	Use of ionic liquids to remove harmful M²⁺ contaminants from hydrocarbon streams. Molecular Systems Design and Engineering, 2018, 3, 408-417.	1.7	6
139	Uncovering the True Cost of Ionic Liquids using Monetization. Computer Aided Chemical Engineering, 2020, 48, 1825-1830.	0.3	6
140	Evaluation of N,N,N-Dimethylbutylammonium Methanesulfonate Ionic liquid for electrochemical recovery of lead from lead-acid batteries. Electrochimica Acta, 2021, 376, 137893.	2.6	6
141	Reactions in Nearcritical Water. , 0, , 256-300.		6
142	Application of a phosphonium-based ionic liquid for reactive textile dye removal: Extraction study and toxicological evaluation. Journal of Environmental Management, 2022, 304, 114322.	3.8	6
143	Next generation strategy for tuning the thermoresponsive properties of micellar and hydrogel drug delivery vehicles using ionic liquids. Polymer Chemistry, 2022, 13, 2340-2350.	1.9	6
144	In Search of an "Ionic Liquid Effect". ECS Transactions, 2009, 16, 81-87.	0.3	5

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145	Screening Solvents Properties for CO2 Capture Based on the Process Performance. Energy Procedia, 2017, 114, 1551-1557.	1.8	5
146	On the Use of Differential Scanning Calorimetry for Thermal Hazard Assessment of New Chemistry: Avoiding Explosive Mistakes. Angewandte Chemie, 2020, 132, 15930-15934.	1.6	5
147	Physicochemical Characterization of Two Protic Hydroxyethylammonium Carboxylate Ionic Liquids in Water and Their Mixture. Journal of Chemical & Engineering Data, 2022, 67, 1309-1325.	1.0	5
148	Ionic Liquids as Vehicles for Reactions and Separations. ACS Symposium Series, 2007, , 198-211.	0.5	4
149	Protein from Renewable Resources: Mycoprotein Production from Agricultural Residues. Computer Aided Chemical Engineering, 2020, 48, 985-990.	0.3	4
150	Assessing the economic viability of wetland remediation of wastewater, and the potential for parallel biomass valorisation. Environmental Science: Water Research and Technology, 2020, 6, 2103-2121.	1.2	4
151	Production of phthalic anhydride from biorenewables: process design. Computer Aided Chemical Engineering, 2015, , 2561-2566.	0.3	3
152	Controlling surface chemistry and mechanical properties of metal ionogels through Lewis acidity and basicity. Journal of Materials Chemistry A, 2021, 9, 4679-4686.	5.2	3
153	Systems Designed with an Ionic Liquid and Molecular Solvents to Investigate the Kinetics of an S_NAr Reaction. Progress in Reaction Kinetics and Mechanism, 2013, 38, 157-170.	1.1	2
154	Thermolysis of Organofluoroborate Ionic Liquids to NHC-Organofluoroborates. ACS Sustainable Chemistry and Engineering, 2020, 8, 16386-16390.	3.2	2
155	In Situ Alkylcarbonic Acid Catalysts Formed in CO2-Expanded Alcohols. ACS Symposium Series, 2009, , 131-144.	0.5	1
156	Uncertainty analysis in life-cycle assessment of early-stage processes and products: a case study in dialkyl-imidazolium ionic liquids. Computer Aided Chemical Engineering, 2021, 50, 785-790.	0.3	1
157	Solvation Behavior of Ionic Liquids and Their Role in the Production of Lignocellulosic Biofuels and Sustainable Chemical Feedstocks. Series on Chemistry, Energy and the Environment, 2018, , 77-134.	0.3	1
158	An easy and reliable method for syringyl: guaiacyl ratio measurement. Tappi Journal, 2017, 16, 145-152.	0.2	1
159	Reclamation of nutrients, carbon, and metals from compromised surface waters fated to the Salton Sea: Biomass production and ecosystem services using an attached periphytic algae flow-way. Algal Research, 2022, 66, 102757.	2.4	1
160	Esterification in Ionic Liquids: The Influence of Solvent Basicity. ECS Transactions, 2009, 16, 103-106.	0.3	0
161	Conversion technologies: general discussion. Faraday Discussions, 2017, 202, 371-389.	1.6	0
162	Ionic Liquids. RSC Energy and Environment Series, 2019, , 69-105.	0.2	0

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163	Ionic Liquids as Solvents for the Production of Materials from Biomass. , 2019, , 1-22.		0