

Jason P Hallett

List of Publications by Year in descending order

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163
papers

26,068
citations

31902

53
h-index

6282

158
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175
all docs

175
docs citations

175
times ranked

25442
citing authors

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

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19	Structural changes in lignins isolated using an acidic ionic liquid water mixture. <i>Green Chemistry</i> , 2015, 17, 5019-5034.	4.6	159
20	Sustainable Reactions in Tunable Solvents. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18108-18118.	1.2	150
21	Fractionation of lignocellulosic biomass with the ionic liquid 1-butylimidazolium hydrogen sulfate. <i>Green Chemistry</i> , 2014, 16, 1617.	4.6	148
22	Recent advances in the pretreatment of lignocellulosic biomass. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2019, 20, 11-17.	3.2	135
23	Homogeneous Catalyzed Reactions of Levulinic Acid: To Î³-Valerolactone and Beyond. <i>ChemSusChem</i> , 2016, 9, 2037-2047.	3.6	120
24	Lignin oxidation and depolymerisation in ionic liquids. <i>Green Chemistry</i> , 2016, 18, 834-841.	4.6	111
25	Quantitative glucose release from softwood after pretreatment with low-cost ionic liquids. <i>Green Chemistry</i> , 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. <i>Green Chemistry</i> , 2018, 20, 3486-3498.	4.6	100
27	Charge Screening in the S _N 2 Reaction of Charged Electrophiles and Charged Nucleophiles: An Ionic Liquid Effect. <i>Journal of Organic Chemistry</i> , 2009, 74, 1864-1868.	1.7	98
28	Determination of solvatochromic solvent parameters for the characterization of gas-expanded liquids. <i>Journal of Supercritical Fluids</i> , 2005, 36, 16-22.	1.6	97
29	Mechanistic insights into lignin depolymerisation in acidic ionic liquids. <i>Green Chemistry</i> , 2016, 18, 5456-5465.	4.6	93
30	A structural investigation of ionic liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8608-8624.	1.3	93
31	Oxidative Depolymerization of Lignin Using a Novel Polyoxometalate-Protic Ionic Liquid System. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6031-6036.	3.2	89
32	Solubilizing and Stabilizing Proteins in Anhydrous Ionic Liquids through Formation of Protein-Polymer Surfactant Nanoconstructs. <i>Journal of the American Chemical Society</i> , 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. <i>Renewable Energy</i> , 2020, 154, 432-444.	4.3	82
34	Role of life-cycle externalities in the valuation of protic ionic liquids – a case study in biomass pretreatment solvents. <i>Green Chemistry</i> , 2020, 22, 3132-3140.	4.6	76
35	Non-aqueous homogenous biocatalytic conversion of polysaccharides in ionic liquids using chemically modified glucosidase. <i>Nature Chemistry</i> , 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. <i>ACS Sustainable Chemistry and Engineering</i> , 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 CO ₂ : Phase Equilibria. Industrial & Engineering Chemistry Research, 2008, 47, 493-501.	1.8	69
39	Solvent selection and design for CO ₂ capture – 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 CO ₂ capture. 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 _n C ₁ im] ⁺) Chloride (Cl ⁻), Methylsulfate ([MeSO ₄] ⁻), and Dimethylphosphate ([Me ₂ PO ₄] ⁻) 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 lead-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 liquid-protein interactions through a multi-technique investigation. Communications Chemistry, 2020, 3, .	2.0	56
53	High-pressure phase equilibria of some carbon dioxide-organic-water systems. Fluid Phase Equilibria, 2004, 224, 143-154.	1.4	54
54	CO ₂ -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. <i>Chemical Communications</i> , 2007, , 1427.	2.2	50
56	Strategies for the Separation of the Furanic Compounds HMF, DFF, FFCA, and FDCA from Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>Green Chemistry</i> , 2020, 22, 5161-5178.	4.6	50
58	Production of oligosaccharides and biofuels from <i>Miscanthus</i> using combinatorial steam explosion and ionic liquid pretreatment. <i>Bioresource Technology</i> , 2021, 323, 124625.	4.8	49
59	From Lignin to Chemicals: Hydrogenation of Lignin Models and Mechanistic Insights into Hydrodeoxygenation via Low-Temperature C=O Bond Cleavage. <i>ACS Catalysis</i> , 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. <i>Green Chemistry</i> , 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 fluorosilica and complexes 1 and 2. See http://www.rsc.org/suppdata/cc/b3/b311146f/ . <i>Chemical Communications</i> , 2003, , 2972.	2.2	46
62	Pretreatment of Lignocellulosic Biomass with Low-cost Ionic Liquids. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	45
63	Liquid-Liquid Equilibria for Binary Mixtures of Water + Acetophenone, + 1-Octanol, + Anisole, and + Toluene from 370 K to 550 K. <i>Journal of Chemical & Engineering Data</i> , 2000, 45, 846-850.	1.0	43
64	Use of phosphonium ionic liquids for highly efficient extraction of phenolic compounds from water. <i>Separation and Purification Technology</i> , 2020, 248, 117069.	3.9	43
65	Protein from renewable resources: mycoprotein production from agricultural residues. <i>Green Chemistry</i> , 2021, 23, 5150-5165.	4.6	42
66	Reversible <i>in Situ</i> Catalyst Formation. <i>Accounts of Chemical Research</i> , 2008, 41, 458-467.	7.6	39
67	Characterisation of cellulose pulps isolated from <i>Miscanthus</i> using a low-cost acidic ionic liquid. <i>Cellulose</i> , 2020, 27, 4745-4761.	2.4	39
68	Understanding siloxane functionalised ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2018.	1.3	37
69	Molecular Dynamics Simulation of the Cybotactic Region in Gas-Expanded Methanol-Carbon Dioxide and Acetone-Carbon Dioxide Mixtures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24101-24111.	1.2	36
70	Hydroformylation Catalyst Recycle with Gas-Expanded Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2585-2589.	1.8	36
71	Interplay of Acid-Base Ratio and Recycling on the Pretreatment Performance of the Protic Ionic Liquid Monoethanolammonium Acetate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7952-7961.	3.2	36
72	Self-neutralizing <i>in situ</i> Acid Catalysts from CO ₂ . <i>Topics in Catalysis</i> , 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. <i>Green Chemistry</i> , 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. <i>Frontiers in Chemistry</i> , 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. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3751-3761.	3.2	34
76	The Highly Selective and Near-Quantitative Conversion of Glucose to 5-Hydroxymethylfurfural Using Ionic Liquids. <i>PLoS ONE</i> , 2016, 11, e0163835.	1.1	34
77	Self-Neutralizing in Situ Acid Catalysis for Single-Pot Synthesis of Iodobenzene and Methyl Yellow in CO ₂ -Expanded Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 5252-5257.	1.8	31
78	Rapid, High-Yield Fructose Dehydration to 5-Hydroxymethylfurfural in Mixtures of Water and the Noncoordinating Ionic Liquid [bmim][OTf]. <i>ChemSusChem</i> , 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. <i>Angewandte Chemie - International Edition</i> , 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. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2212-2223.	3.2	30
82	Evaluating the Role of Water as a Cosolvent and an Antisolvent in [HSO ₄]-Based Protic Ionic Liquid Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10524-10536.	3.2	30
83	Techno-economic assessment of the production of phthalic anhydride from corn stover. <i>Chemical Engineering Research and Design</i> , 2016, 107, 181-194.	2.7	29
84	Evidence for the spontaneous formation of N-heterocyclic carbenes in imidazolium based ionic liquids. <i>Chemical Communications</i> , 2017, 53, 11154-11156.	2.2	29
85	A quick, simple, robust method to measure the acidity of ionic liquids. <i>Chemical Communications</i> , 2014, 50, 7258-7261.	2.2	28
86	Biocatalytic Reaction And Recycling by Using CO ₂ -Induced Organic-Aqueous Tunable Solvents. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4670-4673.	7.2	27
87	Coupling chiral homogeneous biocatalytic reactions with benign heterogeneous separation. <i>Green Chemistry</i> , 2007, 9, 888.	4.6	26
88	Diffusion Coefficients of Carbon Dioxide in Brines Measured Using ¹³ C Pulsed-Field Gradient Nuclear Magnetic Resonance. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 181-184.	1.0	26
89	Direct Catalytic Conversion of Cellulose to 5-Hydroxymethylfurfural Using Ionic Liquids. <i>Inorganics</i> , 2016, 4, 32.	1.2	26
90	Effective pretreatment of lignin-rich coconut wastes using a low-cost ionic liquid. <i>Scientific Reports</i> , 2022, 12, 6108.	1.6	26

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91	Solubility of alkali metal halides in the ionic liquid [C ₄ C ₁ im][OTf]. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16161-16168.	1.3	25
92	Thermally-Stable Imidazolium Dicationic Ionic Liquids with Pyridine Functional Groups. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8762-8772.	3.2	25
93	Epoxidation of alkenes by Oxone [®] using 2-alkyl-3,4-dihydroisoquinolinium salts as catalysts in ionic liquids. <i>Journal of Molecular Catalysis A</i> , 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. <i>Green Chemistry</i> , 2020, 22, 5032-5041.	4.6	24
95	A Spectroscopic and Computational Exploration of the Cybotactic Region of Gas-Expanded Liquids: Methanol and Acetone. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4666-4673.	1.2	23
96	In-depth process parameter investigation into a protic ionic liquid pretreatment for 2G ethanol production. <i>Renewable Energy</i> , 2021, 172, 816-828.	4.3	21
97	Structural characterization and DFT study of VIVO(acac) ₂ in imidazolium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15094.	1.3	20
98	Toward a Circular Economy: Decontamination and Valorization of Postconsumer Waste Wood Using the IonoSolv Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14441-14461.	3.2	20
99	Zinc 1s Valence-to-Core X-ray Emission Spectroscopy of Halozincate Complexes. <i>Journal of Physical Chemistry A</i> , 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 CO ₂ atmosphere on pretreatment performance. <i>RSC Advances</i> , 2020, 10, 16050-16060.	1.7	18
101	Biorefinery potential of sustainable municipal wastewater treatment using fast-growing willow. <i>Science of the Total Environment</i> , 2021, 792, 148146.	3.9	18
102	Production of Food-Grade Glucose from Rice and Wheat Residues Using a Biocompatible Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>Green Chemistry</i> , 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. <i>Journal of Organic Chemistry</i> , 2019, 84, 5893-5898.	1.7	16
105	Ultra-Low Cost Ionic Liquids for the Delignification of Biomass. <i>ACS Symposium Series</i> , 2017, , 209-223.	0.5	15
106	Electrodeposition of lead from methanesulfonic acid and methanesulfonate ionic liquid derivatives. <i>Electrochimica Acta</i> , 2020, 353, 136460.	2.6	15
107	Process Analysis of Ionic Liquid-Based Blends as H ₂ S Absorbents: Search for Thermodynamic/Kinetic Synergies. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2080-2088.	3.2	15
108	Demetallization of Sewage Sludge Using Low-Cost Ionic Liquids. <i>Environmental Science & Technology</i> , 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 10 mL to 1 L. <i>Scientific Reports</i> , 2021, 11, 15383.	1.6	15
110	Evaluating the potential of a novel hardwood biomass using a superbase ionic liquid. <i>RSC Advances</i> , 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. <i>Chemical Science</i> , 2021, 12, 9528-9545.	3.7	14
112	Application of VIVO(acac) ₂ type complexes in the desulfurization of fuels with ionic liquids. <i>Catalysis Today</i> , 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. <i>RSC Advances</i> , 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. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 704-716.	3.2	13
115	Pretreatment of biomass with protic ionic liquids. <i>Trends in Chemistry</i> , 2022, 4, 175-178.	4.4	13
116	How Polar are Ionic Liquids?. <i>ECS Transactions</i> , 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. <i>PLoS ONE</i> , 2019, 14, e0224771.	1.1	12
118	Expanding the design space of gel materials through ionic liquid mediated mechanical and structural tuneability. <i>Materials Horizons</i> , 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. <i>Energy Conversion and Management</i> , 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. <i>Molecules</i> , 2020, 25, 2318.	1.7	10
121	A life cycle approach to solvent design: challenges and opportunities for ionic liquids – application to CO ₂ capture. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 258-278.	1.9	9
122	Commercial Aspects of Biomass Deconstruction with Ionic Liquids. <i>Green Chemistry and Sustainable Technology</i> , 2020, , 87-127.	0.4	9
123	Halometallate ionic liquids: thermal properties, decomposition pathways, and life cycle considerations. <i>Green Chemistry</i> , 2022, 24, 5800-5812.	4.6	9
124	Liquid-liquid equilibria and partitioning in organic-aqueous systems. <i>Fluid Phase Equilibria</i> , 2007, 253, 48-53.	1.4	8
125	Ion chromatography for monitoring [NTf ₂] ⁻ anion contaminants in pure and saline water. <i>Analytical Methods</i> , 2020, 12, 2244-2252.	1.3	8
126	Solvent-free liquid avidin as a step toward cold chain elimination. <i>Biotechnology and Bioengineering</i> , 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. <i>Chemical Science</i> , 2021, 12, 196-209.	3.7	8
128	Linking the Thermal and Electronic Properties of Functional Dicationic Salts with Their Molecular Structures. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>ACS Sustainable Chemistry and Engineering</i> , 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 Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8846-8855.	3.2	8
131	Use of ionic liquids to minimize sodium induced internal diesel injector deposits (IDIDs). <i>Molecular Systems Design and Engineering</i> , 2018, 3, 397-407.	1.7	7
132	Thermally robust solvent-free biofluids of M13 bacteriophage engineered for high compatibility with anhydrous ionic liquids. <i>Chemical Communications</i> , 2019, 55, 10752-10755.	2.2	7
133	Implications for Heavy Metal Extractions from Hyper Saline Brines with [NTf ₂] ⁻ Ionic Liquids: Performance, Solubility, and Cost. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12536-12544.	1.8	7
134	Oxidative ionothermal synthesis for micro and macro Zn-based materials. <i>Materials Advances</i> , 2020, 1, 3597-3604.	2.6	7
135	Combining phytoremediation and biorefinery: Metal extraction from lead contaminated <i>Miscanthus</i> during pretreatment using the ionoSolv process. <i>Industrial Crops and Products</i> , 2022, 176, 114259.	2.5	7
136	Phase-Transfer-Catalyzed Alkylation of Phenylacetonitrile in Supercritical Ethane. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 1763-1767.	1.8	6
137	Vapor-liquid equilibria of perfluorohexane+CO ₂ +methanol, +toluene, and +acetone at 313K. <i>Fluid Phase Equilibria</i> , 2006, 241, 20-24.	1.4	6
138	Use of ionic liquids to remove harmful M ²⁺ contaminants from hydrocarbon streams. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 408-417.	1.7	6
139	Uncovering the True Cost of Ionic Liquids using Monetization. <i>Computer Aided Chemical Engineering</i> , 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. <i>Electrochimica Acta</i> , 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. <i>Journal of Environmental Management</i> , 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. <i>Polymer Chemistry</i> , 2022, 13, 2340-2350.	1.9	6
144	In Search of an "Ionic Liquid Effect". <i>ECS Transactions</i> , 2009, 16, 81-87.	0.3	5

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145	Screening Solvents Properties for CO ₂ 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
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