

Ya-Qin Zhang

List of Publications by Year in descending order

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490
papers

26,521
citations

7568

77
h-index

11607

135
g-index

495
all docs

495
docs citations

495
times ranked

21809
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Properties of Ionic Liquids: Database and Evaluation. <i>Journal of Physical and Chemical Reference Data</i> , 2006, 35, 1475-1517.	4.2	1,045
2	Carbon capture with ionic liquids: overview and progress. <i>Energy and Environmental Science</i> , 2012, 5, 6668.	30.8	731
3	Ionic-Liquid-Based CO ₂ Capture Systems: Structure, Interaction and Process. <i>Chemical Reviews</i> , 2017, 117, 9625-9673.	47.7	696
4	Review of recent advances in carbon dioxide separation and capture. <i>RSC Advances</i> , 2013, 3, 22739.	3.6	632
5	Multiscale Studies on Ionic Liquids. <i>Chemical Reviews</i> , 2017, 117, 6636-6695.	47.7	584
6	Ionic liquid-based green processes for energy production. <i>Chemical Society Reviews</i> , 2014, 43, 7838-7869.	38.1	399
7	Hydroxyl-functionalized ionic liquid: a novel efficient catalyst for chemical fixation of CO ₂ to cyclic carbonate. <i>Tetrahedron Letters</i> , 2008, 49, 3588-3591.	1.4	374
8	Activating Coordinated Iron of Iron Hexacyanoferrate for Zn Hybrid Ion Batteries with 10 000 Cycle Lifespan and Superior Rate Capability. <i>Advanced Materials</i> , 2019, 31, e1901521.	21.0	363
9	Active chemisorption sites in functionalized ionic liquids for carbon capture. <i>Chemical Society Reviews</i> , 2016, 45, 4307-4339.	38.1	356
10	Chitosan functionalized ionic liquid as a recyclable biopolymer-supported catalyst for cycloaddition of CO ₂ . <i>Green Chemistry</i> , 2012, 14, 654.	9.0	314
11	A Flexible Ceramic/Polymer Hybrid Solid Electrolyte for Solid State Lithium Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e2000399.	21.0	292
12	A pyrolysis-free path toward superiorly catalytic nitrogen-coordinated single atom. <i>Science Advances</i> , 2019, 5, eaaw2322.	10.3	290
13	Achieving Both High Voltage and High Capacity in Aqueous Zinc Ion Battery for Record High Energy Density. <i>Advanced Functional Materials</i> , 2019, 29, 1906142.	14.9	285
14	Cascade utilization of lignocellulosic biomass to high-value products. <i>Green Chemistry</i> , 2019, 21, 3499-3535.	9.0	273
15	A Mn-N ₃ single-atom catalyst embedded in graphitic carbon nitride for efficient CO ₂ electroreduction. <i>Nature Communications</i> , 2020, 11, 4341.	12.8	257
16	Hydrogen Bonds: A Structural Insight into Ionic Liquids. <i>Chemistry - A European Journal</i> , 2012, 18, 2748-2761.	3.3	254
17	Understanding the hydrogen bonds in ionic liquids and their roles in properties and reactions. <i>Chemical Communications</i> , 2016, 52, 6744-6764.	4.1	234
18	A Wholly Degradable, Rechargeable Zn-Ti ₃ C ₂ MXene Capacitor with Superior Anti-Self-Discharge Function. <i>ACS Nano</i> , 2019, 13, 8275-8283.	14.6	224

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19	Urea-derived graphitic carbon nitride as an efficient heterogeneous catalyst for CO ₂ conversion into cyclic carbonates. <i>Catalysis Science and Technology</i> , 2014, 4, 1556.	4.1	222
20	Nano-wire networks of sulfur-polypyrrole composite cathode materials for rechargeable lithium batteries. <i>Electrochemistry Communications</i> , 2008, 10, 1819-1822.	4.7	217
21	Determination of Physical Properties for the Binary System of 1-Ethyl-3-methylimidazolium Tetrafluoroborate + H ₂ O. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 760-764.	1.9	215
22	Insight into the Cosolvent Effect of Cellulose Dissolution in Imidazolium-Based Ionic Liquid Systems. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9042-9049.	2.6	193
23	Towards a molecular understanding of cellulose dissolution in ionic liquids: anion/cation effect, synergistic mechanism and physicochemical aspects. <i>Chemical Science</i> , 2018, 9, 4027-4043.	7.4	189
24	Recent progress in electrochemical synthesis of ammonia from nitrogen: strategies to improve the catalytic activity and selectivity. <i>Energy and Environmental Science</i> , 2021, 14, 672-687.	30.8	188
25	Preparation and enhanced electrochemical properties of nano-sulfur/poly(pyrrole-co-aniline) cathode material for lithium/sulfur batteries. <i>Electrochimica Acta</i> , 2010, 55, 4632-4636.	5.2	185
26	<i>In Situ</i> Charge Exfoliated Soluble Covalent Organic Framework Directly Used for Zn-Air Flow Battery. <i>ACS Nano</i> , 2019, 13, 878-884.	14.6	182
27	Superbase/cellulose: an environmentally benign catalyst for chemical fixation of carbon dioxide into cyclic carbonates. <i>Green Chemistry</i> , 2014, 16, 3071.	9.0	180
28	Deep eutectic solvents as highly active catalysts for the fast and mild glycolysis of poly(ethylene terephthalate). <i>Green Chemistry</i> , 2009, 11, 1568.	9.0	176
29	Degradation of poly(ethylene terephthalate) using ionic liquids. <i>Green Chemistry</i> , 2009, 11, 1568.	9.0	173
30	Protic ionic liquid [Bim][NTf ₂] with strong hydrogen bond donating ability for highly efficient ammonia absorption. <i>Green Chemistry</i> , 2017, 19, 937-945.	9.0	156
31	Ionic liquid clusters: structure, formation mechanism, and effect on the behavior of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5893-5906.	2.8	155
32	Influence of anionic structure on the dissolution of chitosan in 1-butyl-3-methylimidazolium-based ionic liquids. <i>Green Chemistry</i> , 2011, 13, 3446.	9.0	154
33	First-Row Transition Metal-Containing Ionic Liquids as Highly Active Catalysts for the Glycolysis of Poly(ethylene terephthalate) (PET). <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 340-348.	6.7	151
34	Understanding Structures and Hydrogen Bonds of Ionic Liquids at the Electronic Level. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1007-1017.	2.6	150
35	A Novel Dual Amino-Functionalized Cation-Tethered Ionic Liquid for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 5835-5841.	3.7	145
36	Safety Issues in Lithium Ion Batteries: Materials and Cell Design. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	145

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37	Characterization and thermal behavior of kaolin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 157-160.	3.6	142
38	Toxicity of ionic liquids: Database and prediction via quantitative structure–activity relationship method. <i>Journal of Hazardous Materials</i> , 2014, 278, 320-329.	12.4	142
39	Heteroatom doped graphdiyne as efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4738-4744.	10.3	139
40	Enhanced proton and electron reservoir abilities of polyoxometalate grafted on graphene for high-performance hydrogen evolution. <i>Energy and Environmental Science</i> , 2016, 9, 1012-1023.	30.8	138
41	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3513-3519.	1.9	137
42	Ionic Liquid Droplet Microreactor for Catalysis Reactions Not at Equilibrium. <i>Journal of the American Chemical Society</i> , 2017, 139, 17387-17396.	13.7	130
43	Highly selective electroreduction of N ₂ and CO ₂ to urea over artificial frustrated Lewis pairs. <i>Energy and Environmental Science</i> , 2021, 14, 6605-6615.	30.8	130
44	Urea as an efficient and reusable catalyst for the glycolysis of poly(ethylene terephthalate) wastes and the role of hydrogen bond in this process. <i>Green Chemistry</i> , 2012, 14, 2559.	9.0	129
45	Characterization of the regenerated cellulose films in ionic liquids and rheological properties of the solutions. <i>Materials Chemistry and Physics</i> , 2011, 128, 220-227.	4.0	126
46	Efficient and reversible absorption of ammonia by cobalt ionic liquids through Lewis acid–base and cooperative hydrogen bond interactions. <i>Green Chemistry</i> , 2018, 20, 2075-2083.	9.0	121
47	Lewis Acid–Base Synergistic Catalysis for Polyethylene Terephthalate Degradation by 1,3-Dimethylurea/Zn(OAc) ₂ Deep Eutectic Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3292-3300.	6.7	121
48	Efficient absorption of ammonia with hydroxyl-functionalized ionic liquids. <i>RSC Advances</i> , 2015, 5, 81362-81370.	3.6	119
49	Electrodeposition in Ionic Liquids. <i>ChemPhysChem</i> , 2016, 17, 335-351.	2.1	117
50	Thermodynamic Modeling and Assessment of Ionic Liquid-Based CO ₂ Capture Processes. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11805-11817.	3.7	112
51	Degradation of poly(ethylene terephthalate) catalyzed by metal-free choline-based ionic liquids. <i>Green Chemistry</i> , 2020, 22, 3122-3131.	9.0	111
52	Electrolyte for lithium protection: From liquid to solid. <i>Green Energy and Environment</i> , 2019, 4, 360-374.	8.7	110
53	Ionic liquids/deep eutectic solvents for CO ₂ capture: Reviewing and evaluating. <i>Green Energy and Environment</i> , 2021, 6, 314-328.	8.7	108
54	Inorganic Synthesis Based on Reactions of Ionic Liquids and Deep Eutectic Solvents. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22148-22165.	13.8	107

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55	Synergistic Regulation of Polysulfides Conversion and Deposition by MOF-Derived Hierarchically Ordered Carbonaceous Composite for High-Energy Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1900875.	14.9	104
56	Solubilities of ammonia in basic imidazolium ionic liquids. <i>Fluid Phase Equilibria</i> , 2010, 297, 34-39.	2.5	102
57	A new fragment contribution-corresponding states method for physicochemical properties prediction of ionic liquids. <i>AIChE Journal</i> , 2013, 59, 1348-1359.	3.6	102
58	Effects of Cationic Structure on Cellulose Dissolution in Ionic Liquids: A Molecular Dynamics Study. <i>ChemPhysChem</i> , 2012, 13, 3126-3133.	2.1	101
59	Pebax-based composite membranes with high gas transport properties enhanced by ionic liquids for CO ₂ separation. <i>RSC Advances</i> , 2017, 7, 6422-6431.	3.6	100
60	A DFT study on lignin dissolution in imidazolium-based ionic liquids. <i>RSC Advances</i> , 2017, 7, 12670-12681.	3.6	100
61	Efficient transformation of CO ₂ to cyclic carbonates using bifunctional protic ionic liquids under mild conditions. <i>Green Chemistry</i> , 2019, 21, 3456-3463.	9.0	100
62	Ionic Liquid Design and Process Simulation for Decarbonization of Shale Gas. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5931-5944.	3.7	97
63	Recent progress in theoretical and computational studies on the utilization of lignocellulosic materials. <i>Green Chemistry</i> , 2019, 21, 9-35.	9.0	96
64	Alcoholysis of polyethylene terephthalate to produce dioctyl terephthalate using choline chloride-based deep eutectic solvents as efficient catalysts. <i>Green Chemistry</i> , 2019, 21, 897-906.	9.0	95
65	Dissolving process of a cellulose bunch in ionic liquids: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17894-17905.	2.8	92
66	Ultrafast Homogeneous Glycolysis of Waste Polyethylene Terephthalate via a Dissolution-Degradation Strategy. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16239-16245.	3.7	92
67	Isobutane/butene alkylation catalyzed by ionic liquids: a more sustainable process for clean oil production. <i>Green Chemistry</i> , 2017, 19, 1462-1489.	9.0	91
68	Alloy Cu ₃ Pt nanoframes through the structure evolution in Cu-Pt nanoparticles with a core-shell construction. <i>Scientific Reports</i> , 2014, 4, 6414.	3.3	90
69	Hydroxyl-Functionalized Ionic Liquid Promoted CO ₂ Fixation According to Electrostatic Attraction and Hydrogen Bonding Interaction. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8426-8435.	3.7	89
70	Fe-Zr-O catalyzed base-free aerobic oxidation of 5-HMF to 2,5-FDCA as a bio-based polyester monomer. <i>Catalysis Science and Technology</i> , 2018, 8, 164-175.	4.1	88
71	Structure, interaction and property of amino-functionalized imidazolium ILs by molecular dynamics simulation and Ab initio calculation. <i>AIChE Journal</i> , 2007, 53, 3210-3221.	3.6	86
72	Controlled synthesis of CdS micro/nano leaves with (0001) facets exposed: enhanced photocatalytic activity toward hydrogen evolution. <i>Journal of Materials Chemistry</i> , 2012, 22, 23815.	6.7	83

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73	Novel Ether-Functionalized Pyridinium Chloride Ionic Liquids for Efficient SO ₂ Capture. Industrial & Engineering Chemistry Research, 2014, 53, 16832-16839.	3.7	83
74	Ionic liquids tailored amine aqueous solution for pre-combustion CO ₂ capture: Role of imidazolium-based ionic liquids. Applied Energy, 2015, 154, 771-780.	10.1	83
75	Highly Selective Capture of CO ₂ by Ether-Functionalized Pyridinium Ionic Liquids with Low Viscosity. Energy & Fuels, 2015, 29, 6039-6048.	5.1	82
76	Reversible Hydrophobicâ€“Hydrophilic Transition of Ionic Liquids Driven by Carbon Dioxide. Angewandte Chemie - International Edition, 2015, 54, 7265-7269.	13.8	81
77	Functionalized ionic liquid membranes for CO ₂ separation. Chemical Communications, 2018, 54, 12671-12685.	4.1	81
78	Direct conversion of shrimp shells to <i>N</i> -acylated chitin with antibacterial and anti-tumor effects by natural deep eutectic solvents. Green Chemistry, 2019, 21, 87-98.	9.0	81
79	Why Only Ionic Liquids with Unsaturated Heterocyclic Cations Can Dissolve Cellulose: A Simulation Study. ACS Sustainable Chemistry and Engineering, 2017, 5, 3417-3428.	6.7	80
80	Ionic liquids tailored and confined by one-step assembly with mesoporous silica for boosting the catalytic conversion of CO ₂ into cyclic carbonates. Green Chemistry, 2018, 20, 3232-3241.	9.0	80
81	Enhanced NH ₃ capture by imidazolium-based protic ionic liquids with different anions and cation substituents. Journal of Chemical Technology and Biotechnology, 2018, 93, 1228-1236.	3.2	78
82	Effects of anionic structure on the dissolution of cellulose in ionic liquids revealed by molecular simulation. Carbohydrate Polymers, 2013, 94, 723-730.	10.2	77
83	Boron-doped melamine-derived carbon nitrides tailored by ionic liquids for catalytic conversion of CO ₂ into cyclic carbonates. Green Chemistry, 2017, 19, 2957-2965.	9.0	77
84	Solid polymer electrolyte with in-situ generated fast Li ⁺ conducting network enable high voltage and dendrite-free lithium metal battery. Energy Storage Materials, 2022, 44, 93-103.	18.0	77
85	Highly Efficient Electrocatalytic CO ₂ Reduction to C ₂₊ Products on a Poly(ionic liquid)-Based Cu ⁰ /Cu ^I Tandem Catalyst. Angewandte Chemie - International Edition, 2022, 61, .	13.8	77
86	Ionic liquids for absorption and separation of gases: An extensive database and a systematic screening method. AIChE Journal, 2017, 63, 1353-1367.	3.6	76
87	Polyoxometalate-mediated green synthesis of a 2D silver nanonet/graphene nanohybrid as a synergistic catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2013, 1, 11961.	10.3	75
88	Facile synthesis of Fe ₃ O ₄ nanorod decorated reduced graphene oxide (RGO) for supercapacitor application. RSC Advances, 2016, 6, 107057-107064.	3.6	75
89	Effect of hydrogen bond of hydroxyl-functionalized ammonium ionic liquids on cycloaddition of CO ₂ . Tetrahedron Letters, 2015, 56, 1416-1419.	1.4	74
90	A general green strategy for fabricating metal nanoparticles/polyoxometalate/graphene tri-component nanohybrids: enhanced electrocatalytic properties. Journal of Materials Chemistry, 2012, 22, 3319.	6.7	73

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91	Three-dimensional hierarchical pompon-like Co ₃ O ₄ porous spheres for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13801-13804.	10.3	73
92	Host-guest molecular interaction promoted urea electrosynthesis over a precisely designed conductive metal-organic framework. <i>Energy and Environmental Science</i> , 2022, 15, 2084-2095.	30.8	73
93	An ionic liquid extraction process for the separation of indole from wash oil. <i>Green Chemistry</i> , 2015, 17, 3783-3790.	9.0	70
94	Temperature-Controlled Reaction-Separation for Conversion of CO ₂ to Carbonates with Functional Ionic Liquids Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3081-3086.	6.7	69
95	Formation of C-C bonds for the production of bio-alkanes under mild conditions. <i>Green Chemistry</i> , 2014, 16, 3589-3595.	9.0	68
96	Efficient ionic liquid-based platform for multi-enzymatic conversion of carbon dioxide to methanol. <i>Green Chemistry</i> , 2018, 20, 4339-4348.	9.0	68
97	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites. <i>Advanced Materials</i> , 2022, 34, e2107400.	21.0	68
98	A Novel cathode material based on polyaniline used for lithium/sulfur secondary battery. <i>Synthetic Metals</i> , 2010, 160, 2041-2044.	3.9	67
99	Highly Efficient Dissolution of Wool Keratin by Dimethylphosphate Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2925-2932.	6.7	66
100	Conversion of lignin model compounds under mild conditions in pseudo-homogeneous systems. <i>Green Chemistry</i> , 2016, 18, 2341-2352.	9.0	66
101	A novel Li ₄ Ti ₅ O ₁₂ -based high-performance lithium-ion electrode at elevated temperature. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4938-4944.	10.3	65
102	Solubilities of CO ₂ , CH ₄ , H ₂ , CO and N ₂ in choline chloride/urea. <i>Green Energy and Environment</i> , 2016, 1, 195-200.	8.7	65
103	Tuning the Hydrophilicity and Hydrophobicity of the Respective Cation and Anion: Reversible Phase Transfer of Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7934-7938.	13.8	65
104	Spider-Web-Inspired Nanocomposite-Modified Separator: Structural and Chemical Cooperativity Inhibiting the Shuttle Effect in Li-S Batteries. <i>ACS Nano</i> , 2019, 13, 1563-1573.	14.6	65
105	Sustainable Advanced Fenton-like Catalysts Based on Mussel-Inspired Magnetic Cellulose Nanocomposites to Effectively Remove Organic Dyes and Antibiotics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51952-51959.	8.0	64
106	Energetic-environmental-economic assessment of the biogas system with three utilization pathways: Combined heat and power, biomethane and fuel cell. <i>Bioresource Technology</i> , 2016, 214, 722-728.	9.6	63
107	DBN-based ionic liquids with high capability for the dissolution of wool keratin. <i>RSC Advances</i> , 2017, 7, 1981-1988.	3.6	62
108	Improving SO ₂ capture by tuning functional groups on the cation of pyridinium-based ionic liquids. <i>RSC Advances</i> , 2015, 5, 2470-2478.	3.6	61

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109	Conversion of biomass derived valerolactone into high octane number gasoline with an ionic liquid. <i>Green Chemistry</i> , 2015, 17, 1065-1070.	9.0	60
110	Highly Active Ni-Based Catalyst Derived from Double Hydroxides Precursor for Low Temperature CO ₂ Methanation. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9102-9111.	3.7	60
111	High CO ₂ absorption capacity of metal-based ionic liquids: A molecular dynamics study. <i>Green Energy and Environment</i> , 2021, 6, 253-260.	8.7	60
112	Catalytic Methanation of Carbon Dioxide by Active Oxygen Material Ce _x Zr _{1-x} O ₂ Supported Ni ₂ Co Bimetallic Nanocatalysts. <i>AIChE Journal</i> , 2013, 59, 2567-2576.	3.6	59
113	Highly Efficient Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid with Heteropoly Acids and Ionic Liquids. <i>ChemSusChem</i> , 2019, 12, 2715-2724.	6.8	58
114	1,3-Dimethylimidazolium-2-carboxylate: a zwitterionic salt for the efficient synthesis of vicinal diols from cyclic carbonates. <i>Green Chemistry</i> , 2014, 16, 3297.	9.0	57
115	Improved Catalytic Lifetime of H ₂ SO ₄ for Isobutane Alkylation with Trace Amount of Ionic Liquids Buffer. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1464-1469.	3.7	57
116	Extractive desulfurization of fuel using N-butylpyridinium-based ionic liquids. <i>RSC Advances</i> , 2015, 5, 30234-30238.	3.6	57
117	Catalysts, kinetics and process optimization for the synthesis of methyl acrylate over Cs ⁺ /P ³⁻ -Al ₂ O ₃ . <i>Catalysis Science and Technology</i> , 2016, 6, 6417-6430.	4.1	57
118	Nucleosome-inspired nanocarrier obtains encapsulation efficiency enhancement and side effects reduction in chemotherapy by using fullerenol assembled with doxorubicin. <i>Biomaterials</i> , 2018, 167, 205-215.	11.4	57
119	The Effect of Concentration of Lithium Salt on the Structural and Transport Properties of Ionic Liquid-Based Electrolytes. <i>Frontiers in Chemistry</i> , 2019, 7, 945.	3.6	56
120	Study on Extraction Asphaltenes from Direct Coal Liquefaction Residue with Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10278-10282.	3.7	55
121	Synthesis of Methyl Methacrylate by Aldol Condensation of Methyl Propionate with Formaldehyde Over Acid-Base Bifunctional Catalysts. <i>Catalysis Letters</i> , 2013, 143, 829-838.	2.6	55
122	Ionic liquid functionalized electrospun gel polymer electrolyte for use in a high-performance lithium metal battery. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18479-18487.	10.3	55
123	Fabrication of Multilayered Molecularly Imprinted Membrane for Selective Recognition and Separation of Artemisinin. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3127-3137.	6.7	55
124	Anion-Based pH Responsive Ionic Liquids: Design, Synthesis, and Reversible Self-Assembling Structural Changes in Aqueous Solution. <i>Langmuir</i> , 2014, 30, 3971-3978.	3.5	54
125	Quantitative Change in Disulfide Bonds and Microstructure Variation of Regenerated Wool Keratin from Various Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2614-2622.	6.7	54
126	Selective Extraction of Lithium from Spent Lithium Batteries by Functional Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7022-7029.	6.7	54

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127	Gas-liquid mass transfer properties in CO ₂ absorption system with ionic liquids. <i>AIChE Journal</i> , 2014, 60, 2929-2939.	3.6	53
128	A new class of ion-ion interaction: Z-bond. <i>Science China Chemistry</i> , 2015, 58, 495-500.	8.2	53
129	Hydrogen-Bonding Interactions in Pyridinium-Based Ionic Liquids and Dimethyl Sulfoxide Binary Systems: A Combined Experimental and Computational Study. <i>ACS Omega</i> , 2018, 3, 1823-1833.	3.5	53
130	A promising method for electrodeposition of aluminium on stainless steel in ionic liquid. <i>AIChE Journal</i> , 2009, 55, 783-796.	3.6	52
131	Densities and Viscosities of Binary Mixtures Containing 1,3-Dimethylimidazolium Dimethylphosphate and Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 2377-2388.	1.9	52
132	One-Step Conversion of Biomass-Derived Furanics into Aromatics by Brønsted Acid Ionic Liquids at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2541-2551.	6.7	52
133	Screening of Ionic Liquids for Keratin Dissolution by Means of COSMO-RS and Experimental Verification. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17314-17322.	6.7	52
134	Polymeric ionic liquids tailored by different chain groups for the efficient conversion of CO ₂ into cyclic carbonates. <i>Green Chemistry</i> , 2019, 21, 2352-2361.	9.0	52
135	Sequential drug release via chemical diffusion and physical barriers enabled by hollow multishelled structures. <i>Nature Communications</i> , 2020, 11, 4450.	12.8	52
136	Influence of Microstructure and Interaction on Viscosity of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3505-3514.	3.7	51
137	Pebax®/TSIL blend thin film composite membranes for CO ₂ separation. <i>Science China Chemistry</i> , 2016, 59, 538-546.	8.2	51
138	Tailoring Molecular Weight of Bioderived Polycarbonates via Bifunctional Ionic Liquids Catalysts under Metal-Free Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2684-2693.	6.7	51
139	Encapsulation of multiple enzymes in a metal-organic framework with enhanced electro-enzymatic reduction of CO ₂ to methanol. <i>Green Chemistry</i> , 2021, 23, 2362-2371.	9.0	51
140	ZnBr ₂ -Based Choline Chloride Ionic Liquid for Efficient Fixation of CO ₂ to Cyclic Carbonate. <i>Synthetic Communications</i> , 2012, 42, 2564-2573.	2.1	50
141	Ionic liquid enhanced alkylation of iso-butane and 1-butene. <i>Catalysis Today</i> , 2013, 200, 30-35.	4.4	50
142	Highly bonded T-Nb ₂ O ₅ /rGO nanohybrids for 4 V quasi-solid state asymmetric supercapacitors with improved electrochemical performance. <i>Nano Research</i> , 2018, 11, 4673-4685.	10.4	50
143	Selective catalytic tailoring of the H unit in herbaceous lignin for methyl <i>p</i> -hydroxycinnamate production over metal-based ionic liquids. <i>Green Chemistry</i> , 2018, 20, 3743-3752.	9.0	50
144	Gold nanoparticles supported on Ce-Zr oxides for the oxidative esterification of aldehydes to esters. <i>Catalysis Science and Technology</i> , 2015, 5, 3682-3692.	4.1	49

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145	Trace Water as Prominent Factor to Induce Peptide Self-Assembly: Dynamic Evolution and Governing Interactions in Ionic Liquids. <i>Small</i> , 2017, 13, 1702175.	10.0	49
146	Selective aerobic oxidative cleavage of lignin C-C bonds over novel hierarchical Ce-Cu/MFI nanosheets. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119343.	20.2	49
147	Protic vs aprotic ionic liquid for CO ₂ fixation: A simulation study. <i>Green Energy and Environment</i> , 2020, 5, 183-194.	8.7	49
148	Isobutane alkylation using acidic ionic liquid catalysts. <i>Catalysis Communications</i> , 2012, 26, 68-71.	3.3	48
149	Effect of small amount of water on the dynamics properties and microstructures of ionic liquids. <i>AIChE Journal</i> , 2017, 63, 2248-2256.	3.6	48
150	High Oxygen Reduction Reaction Performances of Cathode Materials Combining Polyoxometalates, Coordination Complexes, and Carbonaceous Supports. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38486-38498.	8.0	48
151	Molecular dynamics simulation of desulfurization by ionic liquids. <i>AIChE Journal</i> , 2010, 56, 2983-2996.	3.6	47
152	CL-20 hosted in graphene foam as a high energy material with low sensitivity. <i>RSC Advances</i> , 2015, 5, 98925-98928.	3.6	47
153	Ether-functionalized ionic liquid based composite membranes for carbon dioxide separation. <i>RSC Advances</i> , 2016, 6, 45184-45192.	3.6	47
154	Hierarchically porous covalent organic frameworks assembled in ionic liquids for highly effective catalysis of C-C coupling reactions. <i>Green Chemistry</i> , 2020, 22, 2605-2612.	9.0	47
155	Construction of a PPIL@COF core-shell composite with enhanced catalytic activity for CO ₂ conversion. <i>Green Chemistry</i> , 2021, 23, 2411-2419.	9.0	47
156	Effect of Small Amount of Water on CO ₂ Bubble Behavior in Ionic Liquid Systems. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 428-439.	3.7	46
157	One-Pot Synthesis of 2,5-Furandicarboxylic Acid from Fructose in Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1851-1858.	3.7	46
158	12-Tungstophosphoric acid niched in Zr-based metal-organic framework: a stable and efficient catalyst for Friedel-Crafts acylation. <i>Science China Chemistry</i> , 2018, 61, 402-411.	8.2	46
159	Hollow spherical carbonized polypyrrole/sulfur composite cathode materials for lithium/sulfur cells with long cycle life. <i>Journal of Power Sources</i> , 2014, 248, 337-342.	7.8	44
160	Molecular Insights into the Regulatable Interfacial Property and Flow Behavior of Confined Ionic Liquids in Graphene Nanochannels. <i>Small</i> , 2019, 15, e1804508.	10.0	44
161	Predicting H ₂ S solubility in ionic liquids by the quantitative structure-property relationship method using S _{if} -profile molecular descriptors. <i>RSC Advances</i> , 2016, 6, 70405-70413.	3.6	43
162	Hypergolic fuels based on water-stable borohydride cluster anions with ultralow ignition delay times. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13341-13346.	10.3	43

#	ARTICLE	IF	CITATIONS
163	Inhibiting degradation of cellulose dissolved in ionic liquids <i>via</i> amino acids. <i>Green Chemistry</i> , 2019, 21, 2777-2787.	9.0	43
164	Effect of nicotinamide on electrodeposition of Al from aluminium chloride (AlCl ₃)-1-butyl-3-methylimidazolium chloride ([Bmim]Cl) ionic liquids. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 257-267.	2.5	42
165	High-Voltage and Wide-Temperature Lithium Metal Batteries Enabled by Ultrathin MOF-Derived Solid Polymer Electrolytes with Modulated Ion Transport. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47163-47173.	8.0	42
166	Insights into Ionic Liquids: From Z-Bonds to Quasi-Liquids. <i>Jacs Au</i> , 2022, 2, 543-561.	7.9	42
167	Effects of Support for Vanadium Phosphorus Oxide Catalysts on Vapor-Phase Aldol Condensation of Methyl Acetate with Formaldehyde. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 12693-12702.	3.7	41
168	Low energy recycling of ionic liquids <i>via</i> freeze crystallization during cellulose spinning. <i>Green Chemistry</i> , 2018, 20, 493-501.	9.0	41
169	Efficient hydrodeoxygenation of lignin-derived phenols and dimeric ethers with synergistic [Bmim]PF ₆ -Ru/SBA-15 catalysis under acid free conditions. <i>Green Chemistry</i> , 2019, 21, 597-605.	9.0	41
170	Transesterification of Isosorbide with Dimethyl Carbonate Catalyzed by Task-Specific Ionic Liquids. <i>ChemSusChem</i> , 2019, 12, 1169-1178.	6.8	41
171	Regulating electrochemical CO ₂ RR selectivity at industrial current densities by structuring copper@poly(ionic liquid) interface. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120471.	20.2	41
172	Electrodeposition of zinc coatings from the solutions of zinc oxide in imidazolium chloride/urea mixtures. <i>Science China Chemistry</i> , 2012, 55, 1587-1597.	8.2	40
173	Hydrogen-bonding interactions between a pyridinium-based ionic liquid [C ₄ Py][SCN] and dimethyl sulfoxide. <i>Chemical Engineering Science</i> , 2015, 121, 169-179.	3.8	40
174	Using Sub/Supercritical CO ₂ as a Phase Separation Switch for the Efficient Production of 5-Hydroxymethylfurfural from Fructose in an Ionic Liquid/Organic Biphasic System. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 557-563.	6.7	40
175	A Simple and Mild Approach for the Synthesis of <i>p</i> -Xylene from Bio-Based 2,5-Dimethylfuran by Using Metal Triflates. <i>ChemSusChem</i> , 2017, 10, 2394-2401.	6.8	40
176	Controllable preparation of phosphonium-based polymeric ionic liquids as highly selective nanocatalysts for the chemical conversion of CO ₂ with epoxides. <i>Green Chemistry</i> , 2017, 19, 2184-2193.	9.0	40
177	A new era of precise liquid regulation: Quasi-liquid. <i>Green Energy and Environment</i> , 2017, 2, 329-330.	8.7	40
178	LiF as an Artificial SEI Layer to Enhance the High-Temperature Cycle Performance of Li ₄ Ti ₅ O ₁₂ . <i>Langmuir</i> , 2017, 33, 11164-11169.	3.5	40
179	Nature-Inspired 2D-Mosaic 3D-Gradient Mesoporous Framework: Bimetal Oxide Dual-Composite Strategy toward Ultrastable and High-Capacity Lithium Storage. <i>ACS Nano</i> , 2018, 12, 2035-2047.	14.6	40
180	The confined [Bmim][BF ₄] ionic liquid flow through graphene oxide nanochannels: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17773-17780.	2.8	40

#	ARTICLE	IF	CITATIONS
181	Ceria imparts superior low temperature activity to nickel catalysts for CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2019, 9, 5636-5650.	4.1	40
182	Ionic Liquid Incorporated Metal Organic Framework for High Ionic Conductivity over Extended Temperature Range. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7892-7899.	6.7	40
183	Preparation of MWCNTs-Graphene-Cellulose Fiber with Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 20013-20021.	6.7	40
184	Ionic Liquid-Based Redox Active Electrolytes for Supercapacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	40
185	Is There Any Preferential Interaction of Ions of Ionic Liquids with DMSO and H ₂ O? A Comparative Study from MD Simulation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6686-6695.	2.6	39
186	Rapid and productive extraction of high purity cellulose material via selective depolymerization of the lignin-carbohydrate complex at mild conditions. <i>Green Chemistry</i> , 2017, 19, 2234-2243.	9.0	39
187	Base-free preparation of low molecular weight chitin from crab shell. <i>Carbohydrate Polymers</i> , 2018, 190, 148-155.	10.2	39
188	Multi-scale simulation of the 1,3-butadiene extraction separation process with an ionic liquid additive. <i>Green Chemistry</i> , 2010, 12, 1263.	9.0	38
189	Structure of ionic liquids under external electric field: a molecular dynamics simulation. <i>Molecular Simulation</i> , 2012, 38, 172-178.	2.0	38
190	Catalysts, Process Optimization, and Kinetics for the Production of Methyl Acrylate over Vanadium Phosphorus Oxide Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 5860-5871.	3.7	38
191	Excess spectroscopy and its applications in the study of solution chemistry. <i>Pure and Applied Chemistry</i> , 2020, 92, 1611-1626.	1.9	38
192	Unraveling the Synergistic Coupling Mechanism of Li ⁺ Transport in an "Carbonogel/Ceramic" Hybrid Solid Electrolyte for Rechargeable Lithium Metal Battery. <i>Advanced Functional Materials</i> , 2022, 32, 2108706.	14.9	38
193	Density, Excess Molar Volume and Conductivity of Binary Mixtures of the Ionic Liquid 1,2-Dimethyl-3-hexylimidazolium Bis(trifluoromethylsulfonyl)imide and Dimethyl Carbonate. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 27-30.	1.9	37
194	The Hydrogen-Bonding Interactions between 1-Ethyl-3-Methylimidazolium Lactate Ionic Liquid and Methanol. <i>Australian Journal of Chemistry</i> , 2013, 66, 50.	0.9	37
195	Synergistic Effects in Nanoengineered HNb ₃ O ₈ /Graphene Hybrids with Improved Photocatalytic Conversion Ability of CO ₂ into Renewable Fuels. <i>Langmuir</i> , 2016, 32, 254-264.	3.5	37
196	ZnS quantum dots@multilayered carbon: geological-plate-movement-inspired design for high-energy Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8358-8365.	10.3	37
197	Metal-Free Photochemical Degradation of Lignin-Derived Aryl Ethers and Lignin by Autologous Radicals through Ionic Liquid Induction. <i>ChemSusChem</i> , 2019, 12, 4005-4013.	6.8	37
198	Enhancement of transdermal delivery of artemisinin using microemulsion vehicle based on ionic liquid and lidocaine ibuprofen. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110886.	5.0	37

#	ARTICLE	IF	CITATIONS
199	Molecular simulations of phosphonium-based ionic liquid. <i>Molecular Simulation</i> , 2010, 36, 79-86.	2.0	36
200	Synthesis of isosorbide-based polycarbonates via melt polycondensation catalyzed by quaternary ammonium ionic liquids. <i>Chinese Journal of Catalysis</i> , 2017, 38, 908-917.	14.0	36
201	The Chitin/Keggin-type heteropolyacid hybrid microspheres as catalyst for oxidation of methacrolein to methacrylic acid. <i>Chemical Engineering Journal</i> , 2018, 334, 1657-1667.	12.7	36
202	Highly Porous Metalloporphyrin Covalent Ionic Frameworks with Well-Defined Cooperative Functional Groups as Excellent Catalysts for CO ₂ Cycloaddition. <i>Chemistry - A European Journal</i> , 2019, 25, 9052-9059.	3.3	36
203	Screening Deep Eutectic Solvents for CO ₂ Capture With COSMO-RS. <i>Frontiers in Chemistry</i> , 2020, 8, 82.	3.6	36
204	SO ₂ -Induced Variations in the Viscosity of Ionic Liquids Investigated by in Situ Fourier Transform Infrared Spectroscopy and Simulation Calculations. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10854-10862.	3.7	35
205	Hydrogen Sulfide Solubility in Ionic Liquids (ILs): An Extensive Database and a New ELM Model Mainly Established by Imidazolium-Based ILs. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 3970-3978.	1.9	35
206	Theoretical studies on glycolysis of poly(ethylene terephthalate) in ionic liquids. <i>RSC Advances</i> , 2018, 8, 8209-8219.	3.6	35
207	Unveiling of the energy storage mechanisms of multi-modified (Nb ₂ O ₅ @C)/rGO nanoarrays as anode for high voltage supercapacitors with formulated ionic liquid electrolytes. <i>Electrochimica Acta</i> , 2019, 313, 532-543.	5.2	35
208	In-Built Quasi-Solid-State Poly-Ether Electrolytes Enabling Stable Cycling of High-Voltage and Wide-Temperature Li Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102347.	14.9	35
209	Vinyl-functionalized imidazolium ionic liquids as new electrolyte additives for high-voltage Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2839-2848.	2.5	34
210	Mechanistic study on the cellulose dissolution in ionic liquids by density functional theory. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1894-1906.	3.5	34
211	Photocatalytic reduction of CO ₂ with H ₂ O on CuO/TiO ₂ catalysts. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 420-426.	2.3	34
212	Improved electrochemical performance in nanoengineered pomegranate-shaped Fe ₃ O ₄ /RGO nanohybrids anode material. <i>Journal of Materials Science</i> , 2017, 52, 3233-3243.	3.7	34
213	Lithium Recovery from the Mother Liquor Obtained in the Process of Li ₂ CO ₃ Production. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1363-1372.	3.7	34
214	Structure optimization of tailored ionic liquids and process simulation for shale gas separation. <i>AIChE Journal</i> , 2020, 66, e16794.	3.6	34
215	Metal-organic frameworks containing solid-state electrolytes for lithium metal batteries and beyond. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1771-1794.	5.9	34
216	Mechanism of fixation of CO ₂ in the presence of hydroxyl-functionalized quaternary ammonium salts. <i>Journal of CO₂ Utilization</i> , 2015, 10, 113-119.	6.8	33

#	ARTICLE	IF	CITATIONS
217	Reversible Phase Transfer of Carbon Dots between an Organic Phase and Aqueous Solution Triggered by CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3687-3691.	13.8	33
218	Synthesis of high-molecular weight isosorbide-based polycarbonates through efficient activation of endo-hydroxyl groups by an ionic liquid. <i>Green Chemistry</i> , 2019, 21, 3891-3901.	9.0	33
219	Aromatic Ester-Functionalized Ionic Liquid for Highly Efficient CO ₂ Electrochemical Reduction to Oxalic Acid. <i>ChemSusChem</i> , 2020, 13, 4900-4905.	6.8	33
220	Ultralong cycling and wide temperature range of lithium metal batteries enabled by solid polymer electrolytes interpenetrated with a poly(liquid crystal) network. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6232-6241.	10.3	33
221	Insights into the electrochemical degradation of phenolic lignin model compounds in a protic ionic liquid-water system. <i>Green Chemistry</i> , 2021, 23, 1665-1677.	9.0	33
222	State of the art of ionic liquid-modified adsorbents for CO ₂ capture and separation. <i>AIChE Journal</i> , 2022, 68, e17500.	3.6	33
223	Excess Molar Volume and Viscosity Deviation for the Methanol + Methyl Methacrylate Binary System at T = (283.15 to 333.15) K. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1836-1840.	1.9	32
224	Efficient extraction of direct coal liquefaction residue with the [bmim]Cl/NMP mixed solvent. <i>RSC Advances</i> , 2011, 1, 1579.	3.6	32
225	Microscopic Structure, Interaction, and Properties of a Guanidinium-Based Ionic Liquid and Its Mixture with CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 8323-8332.	3.7	32
226	Green process for methacrolein separation with ionic liquids in the production of methyl methacrylate. <i>AIChE Journal</i> , 2011, 57, 2388-2396.	3.6	32
227	B ₁₂ H ₁₂ ²⁻ -Based Metal (Cu ²⁺ , Ni ²⁺ ,) Tj ETQq1 1 0.784314 rgBT / Inorganic Chemistry, 2018, 2018, 981-986.	2.0	32
228	<i>in situ</i> generated 3D hierarchical Co ₃ O ₄ @MnO ₂ core-shell hybrid materials: self-assembled fabrication, morphological control and energy applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5967-5980.	10.3	32
229	A facile ionic liquid approach to prepare cellulose-rich aerogels directly from corn stalks. <i>Green Chemistry</i> , 2019, 21, 2699-2708.	9.0	32
230	Recent advances in non-precious metal electrocatalysts for oxygen reduction in acidic media and PEMFCs: an activity, stability and mechanism study. <i>Green Chemistry</i> , 2021, 23, 6898-6925.	9.0	32
231	Simple and safe synthesis of microporous aluminophosphate molecular sieves by ionothermal approach. <i>AIChE Journal</i> , 2008, 54, 280-288.	3.6	31
232	Facile synthesis of SnO ₂ nanocrystals coated conducting polymer nanowires for enhanced lithium storage. <i>Journal of Power Sources</i> , 2012, 219, 199-203.	7.8	31
233	Application of solid acid catalyst derived from low value biomass for a cheaper biodiesel production. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1898-1909.	3.2	31
234	Nitrogen-rich energetic 4-R-5-nitro-1,2,3-triazolate salts (R = -CH ₃ , -NH ₂), Tj ETQq0 0 0 rgBT / materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14768-14778.	10.3	31

#	ARTICLE	IF	CITATIONS
235	Highly selective and stable hydrogenation of heavy aromatic-naphthalene over transition metal phosphides. <i>Science China Chemistry</i> , 2015, 58, 738-746.	8.2	31
236	Rodlike Micelle Structure and Formation of Ionic liquid in Aqueous Solution by Molecular Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1681-1688.	3.7	31
237	Anionic Clusters Enhanced Catalytic Performance of Protic Acid Ionic Liquids for Isobutane Alkylation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8271-8280.	3.7	31
238	Core-Shell Structured $\text{LiMnO}_2 @ \text{Li}_2\text{CO}_3$ Nanosheet Array Cathode for High-Performance, Wide-Temperature-Tolerance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16116-16124.	8.0	31
239	Synthesis of Cyclic Carbonate Catalyzed by DBU Derived Basic Ionic Liquids. <i>Chinese Journal of Chemistry</i> , 2018, 36, 293-298.	4.9	31
240	Ultrasonic assisted extraction of artemisinin from <i>Artemisia Annua</i> L. using monoether-based solvents. <i>Green Chemistry</i> , 2018, 20, 713-723.	9.0	31
241	Effect of N/P ratios on the performance of $\text{LiNi}_0.8\text{Co}_0.15\text{Al}_0.05\text{O}_2 \text{SiO}_2 / \text{Graphite}$ lithium-ion batteries. <i>Journal of Power Sources</i> , 2019, 439, 227056.	7.8	31
242	Low-temperature and low-pressure fuel hydrodesulfurization by solid catalyst coupling with ionic liquids. <i>Fuel</i> , 2014, 134, 74-80.	6.4	30
243	Separation and characterization of cellulose I material from corn straw by low-cost polyhydric protic ionic liquids. <i>Cellulose</i> , 2018, 25, 3241-3254.	4.9	30
244	An effective polysulfides bridgebuilder to enable long-life lithium-sulfur flow batteries. <i>Nano Energy</i> , 2018, 51, 113-121.	16.0	30
245	Role of Hydrogen Bonds in Ionic-Liquid-Mediated Extraction of Natural Bioactive Homologues. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5299-5308.	3.7	29
246	Aluminum Deposition from Lewis Acidic $1\text{-}n\text{-Butyl}\text{-}3\text{-}m\text{-Methylimidazolium}$ Chloroaluminate Ionic Liquid ($[\text{Bmim}]\text{Cl}/\text{AlCl}_3$) Modified with Methyl Nicotinate. <i>ChemElectroChem</i> , 2015, 2, 1794-1798.	3.4	29
247	Thermodynamics and separation process for quaternary acrylic systems. <i>AIChE Journal</i> , 2016, 62, 228-240.	3.6	29
248	Biomethane production system: Energetic analysis of various scenarios. <i>Bioresource Technology</i> , 2016, 206, 155-163.	9.6	29
249	Ru nanoparticles stabilized by ionic liquids supported onto silica: highly active catalysts for low-temperature CO_2 methanation. <i>Green Chemistry</i> , 2018, 20, 4932-4945.	9.0	29
250	Effects of electrolyte additive on the electrochemical performance of Si/C anode for lithium-ion batteries. <i>Ionics</i> , 2018, 24, 3691-3698.	2.4	29
251	Insights into the solvation and dynamic behaviors of a lithium salt in organic- and ionic liquid-based electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19216-19225.	2.8	29
252	Advances in bio-nylon 5X: discovery of new lysine decarboxylases for the high-level production of cadaverine. <i>Green Chemistry</i> , 2020, 22, 8656-8668.	9.0	29

#	ARTICLE	IF	CITATIONS
253	Physicochemical Characterization of MF _m ⁺ -Based Ammonium Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 1505-1515.	1.9	28
254	Insight into the Relationship between Viscosity and Hydrogen Bond of a Series of Imidazolium Ionic Liquids: A Molecular Dynamics and Density Functional Theory Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18848-18854.	3.7	28
255	A non-phosgene process for bioderived polycarbonate with high molecular weight and advanced property profile synthesized using amino acid ionic liquids as catalysts. <i>Green Chemistry</i> , 2020, 22, 2534-2542.	9.0	28
256	Colorless BHET obtained from PET by modified mesoporous catalyst ZnO/SBA-15. <i>Chemical Engineering Science</i> , 2022, 248, 117109.	3.8	28
257	Study on the recovery of ionic liquids from dilute effluent by electrodialysis method and the fouling of cation-exchange membrane. <i>Science China Chemistry</i> , 2013, 56, 1811-1816.	8.2	27
258	A self-stabilized suspension catholyte to enable long-term stable Li ⁺ S flow batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12904-12913.	10.3	27
259	Effect of Metal Ion in Bulk VPO in Aldol Condensation of Formaldehyde and Methyl Acetate to Methyl Acrylate. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 93-100.	3.7	27
260	Lower Limit of Interfacial Thermal Resistance across the Interface between an Imidazolium Ionic Liquid and Solid Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22194-22200.	3.1	27
261	Synthesis of bioderived polycarbonates with adjustable molecular weights catalyzed by phenolic-derived ionic liquids. <i>Green Chemistry</i> , 2020, 22, 2488-2497.	9.0	27
262	Cost-Effective Synthesis of High Molecular Weight Biobased Polycarbonate via Melt Polymerization of Isosorbide and Dimethyl Carbonate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9968-9979.	6.7	27
263	Ionophobic nanopores enhancing the capacitance and charging dynamics in supercapacitors with ionic liquids. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15985-15992.	10.3	27
264	Development of an Ionic Porphyrin-Based Platform as a Biomimetic Light-Harvesting Agent for High-Performance Photoenzymatic Synthesis of Methanol from CO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11503-11511.	6.7	27
265	Epitaxial Regeneration of Spent Graphite Anode Material by an Eco-friendly In-Depth Purification Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16192-16202.	6.7	27
266	Chlorine-free alternatives to the synthesis of ionic liquids for biomass processing. <i>Pure and Applied Chemistry</i> , 2012, 84, 745-754.	1.9	26
267	Deep hydrodenitrification of pyridine by solid catalyst coupling with ionic liquids under mild conditions. <i>Green Chemistry</i> , 2017, 19, 1692-1700.	9.0	26
268	Thiourea-Based Bifunctional Ionic Liquids as Highly Efficient Catalysts for the Cycloaddition of CO ₂ to Epoxides. <i>Catalysis Letters</i> , 2017, 147, 1654-1664.	2.6	26
269	Structure and interaction properties of MBIL [Bmim][FeCl ₄] and methanol: A combined FTIR and simulation study. <i>Journal of Molecular Liquids</i> , 2020, 309, 113061.	4.9	26
270	Unleashing ultra-fast sodium ion storage mechanisms in interface-engineered monolayer MoS ₂ /C interoverlapped superstructure with robust charge transfer networks. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15002-15011.	10.3	26

#	ARTICLE	IF	CITATIONS
271	Preparation of Core/Shell Electrically Conductive Fibers by Efficient Coating Carbon Nanotubes on Polyester. <i>Advanced Fiber Materials</i> , 2021, 3, 180-191.	16.1	26
272	A novel ionic liquids-based scrubbing process for efficient CO ₂ capture. <i>Science China Chemistry</i> , 2010, 53, 1549-1553.	8.2	25
273	Synthesis, characterization and catalytic performance of SAPO-34 molecular sieves for methanol-to-olefin (MTO) reaction. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011, 6, 596-605.	1.5	25
274	Deep Desulfurization of Gasoline Fuel using FeCl ₃ -Containing Lewis-Acidic Ionic Liquids. <i>Separation Science and Technology</i> , 2014, 49, 1208-1214.	2.5	25
275	Lanthanum and Cesium-Loaded SBA-15 Catalysts for MMA Synthesis by Aldol Condensation of Methyl Propionate and Formaldehyde. <i>Catalysis Letters</i> , 2016, 146, 1808-1818.	2.6	25
276	Structures and hydrogen bonds of biodegradable naphthenate ionic liquids. <i>Fluid Phase Equilibria</i> , 2013, 360, 169-179.	2.5	24
277	Ultrathin BiOBr nanocrystals with dominant {001} facets and their high photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	24
278	Ionic liquids and supercritical carbon dioxide: green and alternative reaction media for chemical processes. <i>Reviews in Chemical Engineering</i> , 2016, 32, 587-609.	4.4	24
279	Angstrom science: Exploring aggregates from a new viewpoint. <i>Green Energy and Environment</i> , 2016, 1, 75-78.	8.7	24
280	One-step preparation of an antibacterial chitin/Zn composite from shrimp shells using urea-Zn(OAc) ₂ ·2H ₂ O aqueous solution. <i>Green Chemistry</i> , 2018, 20, 2212-2217.	9.0	24
281	Theoretical Elucidation of $\hat{\nu}^2$ -O-4 Bond Cleavage of Lignin Model Compound Promoted by Sulfonic Acid-Functionalized Ionic Liquid. <i>Frontiers in Chemistry</i> , 2019, 7, 78.	3.6	24
282	Efficient synthesis of isosorbide-based polycarbonate with scalable dicationic ionic liquid catalysts by balancing the reactivity of the <i>endo</i> -OH and <i>exo</i> -OH. <i>Green Chemistry</i> , 2021, 23, 973-982.	9.0	24
283	Lithium slurry flow cell, a promising device for the future energy storage. <i>Green Energy and Environment</i> , 2021, 6, 5-8.	8.7	24
284	Advanced Nonflammable Localized High-Concentration Electrolyte For High Energy Density Lithium Battery. <i>Energy and Environmental Materials</i> , 2022, 5, 1294-1302.	12.8	24
285	Synergistic Effect of TMSPI and FEC in Regulating the Electrode/Electrolyte Interfaces in Nickel-Rich Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11517-11527.	8.0	24
286	Molecular simulation of imidazolium amino acid-based ionic liquids. <i>Molecular Simulation</i> , 2010, 36, 1123-1130.	2.0	23
287	Simultaneous desulfurization and denitrogen of liquid fuels using two functionalized group ionic liquids. <i>Science China Chemistry</i> , 2014, 57, 1766-1773.	8.2	23
288	Promoting effects of MgO, (NH ₄) ₂ SO ₄ or MoO ₃ modification in oxidative esterification of methacrolein over Au/Ce _{0.6} Zr _{0.4} O ₂ -based catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 5453-5463.	4.1	23

#	ARTICLE	IF	CITATIONS
289	Insight into the Performance of Acid Gas in Ionic Liquids by Molecular Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1443-1453.	3.7	23
290	NH ₃ separation membranes with self-assembled gas highways induced by protic ionic liquids. <i>Chemical Engineering Journal</i> , 2021, 421, 127876.	12.7	23
291	Vertically Heterostructured Solid Electrolytes for Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	23
292	Catalytic hydrotreating of tar to liquid fuel over multi-metals (W-Mo-Ni) catalysts. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	2.0	22
293	Absorption degree analysis on biogas separation with ionic liquid systems. <i>Bioresource Technology</i> , 2015, 175, 135-141.	9.6	22
294	In Situ Self-Assembly-Generated 3D Hierarchical Co ₃ O ₄ Micro/Nanomaterial Series: Selective Synthesis, Morphological Control, and Energy Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44199-44213.	8.0	22
295	Amino functionalized [B ₁₂ H ₁₂] ²⁻ salts as hypergolic fuels. <i>New Journal of Chemistry</i> , 2018, 42, 3568-3573.	2.8	22
296	Synthesis of vanadium phosphorus oxide catalysts promoted by iron-based ionic liquids and their catalytic performance in selective oxidation of <i>n</i> -butane. <i>Catalysis Science and Technology</i> , 2018, 8, 4515-4525.	4.1	22
297	Height-driven structure and thermodynamic properties of confined ionic liquids inside carbon nanochannels from molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12767-12776.	2.8	22
298	Mesoscale structures and mechanisms in ionic liquids. <i>Particuology</i> , 2020, 48, 55-64.	3.6	22
299	A new strategy for enhancing the room temperature conductivity of solid-state electrolyte by using a polymeric ionic liquid. <i>Ionics</i> , 2020, 26, 4803-4812.	2.4	22
300	One-pot synthesis of bio-based polycarbonates from dimethyl carbonate and isosorbide under metal-free condition. <i>Green Chemistry</i> , 2020, 22, 4550-4560.	9.0	22
301	High performance thick cathodes enabled by gradient porosity. <i>Electrochimica Acta</i> , 2021, 377, 138105.	5.2	22
302	Constructing single Cu ⁺ sites for CO ₂ electrochemical reduction over a wide potential range. <i>Green Chemistry</i> , 2021, 23, 5461-5466.	9.0	22
303	Phase Behavior of (1-Alkyl-3-methyl Imidazolium Tetrafluoroborate +) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (6-(Hydroxy... 278-282.	1.9	21
304	A piperidinium-based ionic liquid electrolyte to enhance the electrochemical properties of LiFePO ₄ battery. <i>Ionics</i> , 2015, 21, 2109-2117.	2.4	21
305	Effects of water content on the dissolution behavior of wool keratin using 1-ethyl-3-methylimidazolium dimethylphosphate. <i>Science China Chemistry</i> , 2017, 60, 934-941.	8.2	21
306	A bidirectional growth mechanism for a stable lithium anode by a platinum nanolayer sputtered on a polypropylene separator. <i>RSC Advances</i> , 2018, 8, 13034-13039.	3.6	21

#	ARTICLE	IF	CITATIONS
307	Synthesis of Polyionic Liquid by Phenolic Condensation and Its Application in Esterification. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17220-17226.	6.7	21
308	Theoretical Study of Ionic Liquid Clusters Catalytic Effect on the Fixation of CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 34-43.	3.7	21
309	Multi-scale promoting effects of lead for palladium catalyzed aerobic oxidative coupling of methylacrolein with methanol. <i>Catalysis Science and Technology</i> , 2015, 5, 2076-2080.	4.1	20
310	Electrodeposition of crystalline silicon directly from silicon tetrachloride in ionic liquid at low temperature. <i>RSC Advances</i> , 2016, 6, 12061-12067.	3.6	20
311	Fabrication of nanoarchitected TiO ₂ (B)/C/rGO electrode for 4V quasi-solid-state nanohybrid supercapacitors. <i>Electrochimica Acta</i> , 2017, 258, 343-352.	5.2	20
312	Study on ionic liquid/cellulose/coagulator phase diagram and its application in green spinning process. <i>Journal of Molecular Liquids</i> , 2019, 289, 111127.	4.9	20
313	Novel continuous process for methacrolein production in numerous droplet reactors. <i>AIChE Journal</i> , 2020, 66, e16239.	3.6	20
314	Technoeconomic Analysis and Process Design for CO ₂ Electroreduction to CO in Ionic Liquid Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9045-9052.	6.7	20
315	Enhanced high-temperature performance and thermal stability of lithium-rich cathode via combining full concentration gradient design with surface spinel modification. <i>Chemical Engineering Journal</i> , 2021, 415, 129042.	12.7	20
316	Electrodeposition of Al from chloroaluminate ionic liquids with different cations. <i>Ionics</i> , 2017, 23, 2449-2455.	2.4	19
317	Highly Selective Oxygen/Nitrogen Separation Membrane Engineered Using a Porphyrin-Based Oxygen Carrier. <i>Membranes</i> , 2019, 9, 115.	3.0	19
318	Combining Ionic Liquids and Sodium Salts into Metal-Organic Framework for High-Performance Ionic Conduction. <i>ChemElectroChem</i> , 2020, 7, 183-190.	3.4	19
319	Thermodynamics at microscales: 3D, 2D, 1D and 0D. <i>Green Energy and Environment</i> , 2020, 5, 251-258.	8.7	19
320	Insight into the formation and permeability of ionic liquid unilamellar vesicles by molecular dynamics simulation. <i>Soft Matter</i> , 2020, 16, 2605-2610.	2.7	19
321	Extraction of Asphaltenes from Direct Coal Liquefaction Residue by Dialkylphosphate Ionic Liquids. <i>Separation Science and Technology</i> , 2012, 47, 386-391.	2.5	18
322	Modified extra-large mesoporous silica supported Au-Ni as a highly efficient catalyst for oxidative coupling of aldehydes with methanol. <i>RSC Advances</i> , 2014, 4, 58769-58772.	3.6	18
323	Synergistic Effects of Cosolvents on the Dissolution of Wool Keratin Using Ionic Liquids. <i>Chemical Engineering and Technology</i> , 2016, 39, 979-986.	1.5	18
324	Bicyclic ammonium ionic liquids as dense hypergolic fuels. <i>RSC Advances</i> , 2017, 7, 21592-21599.	3.6	18

#	ARTICLE	IF	CITATIONS
325	Kinetic Evaluation of Hydrodesulfurization and Hydrodenitrogenation Reactions via a Lumped Model. <i>Energy & Fuels</i> , 2017, 31, 5491-5497.	5.1	18
326	Nanoscale Observation of Microfibril Swelling and Dissolution in Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 909-917.	6.7	18
327	Low Temperature Electrochemical Deposition of Aluminum in Organic Bases/Thiourea-Based Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15480-15486.	6.7	18
328	Separation Efficiency of CO ₂ in Ionic Liquids/Poly(vinylidene fluoride) Composite Membrane: A Molecular Dynamics Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 6887-6898.	3.7	18
329	Intensified Energy Storage in High-Voltage Nanohybrid Supercapacitors via the Efficient Coupling between TiNb ₂ O ₇ /Holey-rGO Nanoarchitectures and Ionic Liquid-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21349-21361.	8.0	18
330	Artificial photosynthesis for solar hydrogen generation over transition-metal substituted Keggin-type titanium tungstate. <i>New Journal of Chemistry</i> , 2014, 38, 1315-1320.	2.8	17
331	Immobilization and molecular rearrangement of ionic liquids on the surface of carbon nanotubes. <i>RSC Advances</i> , 2014, 4, 16267-16273.	3.6	17
332	Highly efficient carbon dioxide capture by a novel amine solvent containing multiple amino groups. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1918-1926.	3.2	17
333	Relationship of basicity and hydrogen bond properties of ionic liquids with its catalytic performance: Application to synthesis of propylene glycol methyl ether. <i>Catalysis Communications</i> , 2017, 96, 69-73.	3.3	17
334	One-Step Synthesis of Methyl Acrylate Using Methyl Acetate with Formaldehyde in a Fluidized Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 9322-9330.	3.7	17
335	Solid-Liquid Electrolyte as a Nanoion Modulator for Dendrite-Free Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20412-20421.	8.0	17
336	[Bis(imidazolyl)] ⁺ [Bis(triazolyl)] ⁺ Ionic Liquids with High Density and Energy Capacity. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1932-1940.	3.3	17
337	Unraveling the cation and anion effects and kinetics for ionic liquid catalyzed direct synthesis of methyl acrylate under mild conditions. <i>Green Chemistry</i> , 2020, 22, 7913-7923.	9.0	17
338	Dehydrative Formation of Isosorbide from Sorbitol over Poly(ionic liquid)-Covalent Organic Framework Hybrids. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 552-562.	8.0	17
339	Effect of SiO ₂ /Al ₂ O ₃ ratio on the conversion of methanol to olefins over molecular sieve catalysts. <i>Frontiers of Chemical Science and Engineering</i> , 2011, 5, 79-88.	4.4	16
340	Transition metal-doped heteropoly catalysts for the selective oxidation of methacrolein to methacrylic acid. <i>Frontiers of Chemical Science and Engineering</i> , 2016, 10, 139-146.	4.4	16
341	Amide-Functionalized Ionic Liquids As Curing Agents for Epoxy Resin: Preparation, Characterization, and Curing Behaviors with TDE-85. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14088-14097.	3.7	16
342	Stimuli-Responsive Ionic Liquids and the Regulation of Aggregation Structure and Phase Behavior. <i>Chinese Journal of Chemistry</i> , 2021, 39, 729-744.	4.9	16

#	ARTICLE	IF	CITATIONS
343	Synthesis of bio-based polycarbonate <i>via</i> one-step melt polycondensation of isosorbide and dimethyl carbonate by dual site-functionalized ionic liquid catalysts. <i>Green Chemistry</i> , 2021, 23, 447-456.	9.0	16
344	Multiple Hydrogen Bonds Promote the Nonmetallic Degradation Process of Polyethylene Terephthalate with an Amino Acid Ionic Liquid Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4180-4188.	3.7	16
345	Understanding Structural and Transport Properties of Dissolved Li ₂ S ₈ in Ionic Liquid Electrolytes through Molecular Dynamics Simulations. <i>ChemPhysChem</i> , 2021, 22, 419-429.	2.1	16
346	Topological engineering of two-dimensional ionic liquid islands for high structural stability and CO ₂ adsorption selectivity. <i>Chemical Science</i> , 2021, 12, 15503-15510.	7.4	16
347	Vaporization enthalpy and cluster species in gas phase of 1,1,3,3-tetramethylguanidinium-based ionic liquids from computer simulations. <i>AIChE Journal</i> , 2011, 57, 507-516.	3.6	15
348	Assembling of graphene oxide in an isolated dissolving droplet. <i>Soft Matter</i> , 2012, 8, 11249.	2.7	15
349	Heterocyclic Energetic Salts of 4,4',5,5'-Tetranitro-2,2'-Bimidazole. <i>Journal of Energetic Materials</i> , 2015, 33, 202-214.	2.0	15
350	Superbase/saccharide: An ecologically benign catalyst for efficient fixation of CO ₂ into cyclic carbonates. <i>Synthetic Communications</i> , 2016, 46, 497-508.	2.1	15
351	An ionic liquid catalyzed probase method for one-pot synthesis of α,β -unsaturated esters from esters and aldehydes under mild conditions. <i>Green Chemistry</i> , 2017, 19, 4838-4848.	9.0	15
352	Direct conversion of cellulose to sorbitol via an enhanced pretreatment with ionic liquids. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2617-2624.	3.2	15
353	Amino acids/superbases as eco-friendly catalyst system for the synthesis of cyclic carbonates under metal-free and halide-free conditions. <i>Synthetic Communications</i> , 2018, 48, 876-886.	2.1	15
354	Neuron-Mimic Smart Electrode: A Two-Dimensional Multiscale Synergistic Strategy for Densely Packed and High-Rate Lithium Storage. <i>ACS Nano</i> , 2019, 13, 9148-9160.	14.6	15
355	Improvement of product distribution through enhanced mass transfer in isobutane/butene alkylation. <i>Chemical Engineering Research and Design</i> , 2019, 143, 190-200.	5.6	15
356	Isobutane/2-Butene Alkylation Reaction Catalyzed by Cu-Modified and Rare Earth X-Type Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9690-9700.	3.7	15
357	Selective Oxidation of Amino Alcohols to Amino Acids over Au Supported on Monoclinic ZrO ₂ : Dominant Active Sites and Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8506-8516.	3.7	15
358	A space-confined strategy toward large-area two-dimensional crystals of ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1820-1825.	2.8	15
359	Abnormal Enhanced Free Ions of Ionic Liquids Confined in Carbon Nanochannels. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6078-6084.	4.6	15
360	Metal-free and mild photo-thermal synergism in ionic liquids for lignin C-H bond cleavage to provide aldehydes. <i>Green Chemistry</i> , 2021, 23, 5524-5534.	9.0	15

#	ARTICLE	IF	CITATIONS
361	Ionic liquids as a tunable solvent and modifier for biocatalysis. <i>Catalysis Reviews - Science and Engineering</i> , 0, , 1-47.	12.9	15
362	Preparation of 1,4-cyclohexanedimethanol by selective hydrogenation of a waste PET monomer bis(2-hydroxyethylene terephthalate). <i>RSC Advances</i> , 2015, 5, 485-492.	3.6	14
363	Spherical Pâ€modified catalysts for heterogeneous crossâ€aldol condensation of formaldehyde with methyl acetate for methyl acrylate production. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 2104-2111.	1.7	14
364	Production of Bioâ€Based Gasoline by Nobleâ€Metalâ€Catalyzed Hydrodeoxygenation of Î±â€Angelica Lactone Derived Di/Trimers. <i>ChemistrySelect</i> , 2017, 2, 4219-4225.	1.5	14
365	Protic Quaternary Ammonium Ionic Liquids for Catalytic Conversion of CO ₂ into Cyclic Carbonates: A Combined Ab Initio and MD Study. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7121-7129.	3.7	14
366	A lithium salt additive Li ₂ ZrF ₆ for enhancing the electrochemical performance of high-voltage LiNi _{0.5} Mn _{1.5} O ₄ cathode. <i>Ionics</i> , 2018, 24, 2965-2972.	2.4	14
367	Facile Synthesis of Cellulose/ZnO Aerogel with Uniform and Tunable Nanoparticles Based on Ionic Liquid and Polyhydric Alcohol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16248-16254.	6.7	14
368	A new solid-state electrolyte based on polymeric ionic liquid for high-performance supercapacitor. <i>Ionics</i> , 2019, 25, 241-251.	2.4	14
369	Theoretical Insights Into the Depolymerization Mechanism of Lignin to Methyl p-hydroxycinnamate by [Bmim][FeCl ₄] Ionic Liquid. <i>Frontiers in Chemistry</i> , 2019, 7, 446.	3.6	14
370	Physicochemical Properties of Various 2-Hydroxyethylammonium Sulfonate -Based Protic Ionic Liquids and Their Potential Application in Hydrodeoxygenation. <i>Frontiers in Chemistry</i> , 2019, 7, 196.	3.6	14
371	Effect of Clusters on [Li] Solvation and Transport in Mixed Organic Compound/Ionic Liquid Electrolytes under External Electric Fields. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 11308-11316.	3.7	14
372	Phosphorus-Based Ionic Liquid as Dual Function Promoter Oriented Synthesis of Efficient VPO Catalyst for Selective Oxidation of n-butane. <i>Catalysis Letters</i> , 2021, 151, 255-266.	2.6	14
373	Computational studies of the structure and cation-anion interactions in 1-ethyl-3-methylimidazolium lactate ionic liquid. <i>Science China Chemistry</i> , 2012, 55, 1548-1556.	8.2	13
374	Experimental Discovery of Magnetoresistance and Its Memory Effect in Methylimidazolium-Type Iron-Containing Ionic Liquids. <i>Chemistry of Materials</i> , 2016, 28, 8710-8714.	6.7	13
375	Conversion of bis(2-hydroxyethylene terephthalate) into 1,4-cyclohexanedimethanol by selective hydrogenation using RuPtSn/Al ₂ O ₃ . <i>RSC Advances</i> , 2016, 6, 48737-48744.	3.6	13
376	Ternary nanoarray electrode with corn-inspired hierarchical design for synergistic lithium storage. <i>Nano Research</i> , 2017, 10, 172-186.	10.4	13
377	Effects of the Water Content on the Transport Properties of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19661-19669.	3.7	13
378	Ionozyme: ionic liquids as solvent and stabilizer for efficient bioactivation of CO ₂ . <i>Green Chemistry</i> , 2021, 23, 6990-7000.	9.0	13

#	ARTICLE	IF	CITATIONS
379	Ionic liquid additive stabilized cathode/electrolyte interface in LiCoO ₂ based solid-state lithium metal batteries. <i>Electrochimica Acta</i> , 2021, 368, 137593.	5.2	13
380	Developing and Regenerating Cofactors for Sustainable Enzymatic CO ₂ Conversion. <i>Processes</i> , 2022, 10, 230.	2.8	13
381	Tuning the Hydrophilicity and Hydrophobicity of the Respective Cation and Anion: Reversible Phase Transfer of Ionic Liquids. <i>Angewandte Chemie</i> , 2016, 128, 8066-8070.	2.0	12
382	Carbon-Based Materials Enhanced Emulsification To Improve Product Distribution in Isobutane/Butene Alkylation Catalyzed by Sulfuric Acid. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7700-7707.	3.7	12
383	First-principles study on screening doped TiO ₂ (B) as an anode material with high conductivity and low lithium transport resistance for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17985-17992.	2.8	12
384	High Aluminum Content Beta Zeolite as an Active Lewis Acid Catalyst for β -Valerolactone Decarboxylation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 11841-11848.	3.7	12
385	An ultra-stable lithium plating process enabled by the nanoscale interphase of a macromolecular additive. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23844-23850.	10.3	12
386	Dynamic Process Simulation and Assessment of CO ₂ Removal from Confined Spaces Using Pressure Swing Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16407-16419.	3.7	12
387	Catalytic synthesis of methacrolein <i>via</i> the condensation of formaldehyde and propionaldehyde with L-proline. <i>Green Chemistry</i> , 2020, 22, 4222-4230.	9.0	12
388	Molecular thermodynamic understanding of transport behavior of CO ₂ at the ionic liquidsâ€ electrode interface. <i>AIChE Journal</i> , 2021, 67, e17060.	3.6	12
389	Ruthenium complex immobilized on supported ionic-liquid-phase (SILP) for alkoxy carbonylation of olefins with CO ₂ . <i>Green Chemistry</i> , 2021, 23, 3073-3080.	9.0	12
390	LiNO ₃ and TMP enabled high voltage room-temperature solid-state lithium metal battery. <i>Chemical Engineering Journal</i> , 2022, 448, 137743.	12.7	12
391	High-Performance Rechargeable Aluminum-Ion Batteries Enabled by Composite FeF ₃ @ Expanded Graphite Cathode and Carbon Nanotube-Modified Separator. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	12
392	All-atom and united-atom simulations of guanidinium-based ionic liquids. <i>Science China Chemistry</i> , 2012, 55, 1573-1579.	8.2	11
393	Synthesis and Characterization of Tetramethylethylenediamine-Based Hypergolic Ionic Liquids. <i>Journal of Energetic Materials</i> , 2016, 34, 138-151.	2.0	11
394	Synthesis, Crystal Structure, and Properties of Energetic Copper(II) Complex based on 3,5-Dinitrobenzoic Acid and 1,5-Diaminotetrazole. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 647-652.	1.2	11
395	Ionic Liquids as Bifunctional Cosolvents Enhanced CO ₂ Conversion Catalysed by NADH-Dependent Formate Dehydrogenase. <i>Catalysts</i> , 2018, 8, 304.	3.5	11
396	IL-oxidizer/IL-fuel combinations as greener hypergols. <i>New Journal of Chemistry</i> , 2019, 43, 1127-1129.	2.8	11

#	ARTICLE	IF	CITATIONS
397	Light-Controlled Nanoparticle Collision Experiments. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2972-2976.	4.6	11
398	Rheological properties of cotton pulp cellulose dissolved in 1-butyl-3-methylimidazolium chloride solutions. <i>Polymer Engineering and Science</i> , 2011, 51, 2381-2386.	3.1	10
399	Carbon-Number-Based Kinetics, Reactor Modeling, and Process Simulation for Coal Tar Hydrogenation. <i>Energy & Fuels</i> , 2015, 29, 7532-7541.	5.1	10
400	Regulating sulfur removal efficiency of fuels by Lewis acidity of ionic liquids. <i>Science China Chemistry</i> , 2016, 59, 526-531.	8.2	10
401	Review of Methods for Sustainability Assessment of Chemical Engineering Processes. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 52-66.	3.7	10
402	Excellent Trace Detection of Proteins on TiO ₂ Nanotube Substrates through Novel Topography Optimization. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27790-27800.	3.1	10
403	Principles and strategies for green process engineering. <i>Green Chemical Engineering</i> , 2022, 3, 1-4.	6.3	10
404	Periodicity and map for discovery of new ionic liquids. <i>Science in China Series B: Chemistry</i> , 2006, 49, 103-115.	0.8	9
405	Effect of the addition of cornstark to coal powder/coal tar combustion. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 817-823.	3.6	9
406	Numerical simulation of CO ₂ -ionic liquid flow in a stirred tank. <i>Science China Chemistry</i> , 2015, 58, 1918-1928.	8.2	9
407	Special topic on ionic liquids: Energy, materials & environment. <i>Science China Chemistry</i> , 2016, 59, 505-506.	8.2	9
408	Stability, acidity and interaction properties of [Bmim][SbF ₆] coupled with concentrated sulfuric acid. <i>Science China Chemistry</i> , 2017, 60, 1243-1249.	8.2	9
409	Preparation of cellulose/multi-walled carbon nanotube composite membranes with enhanced conductive property regulated by ionic liquids. <i>Fibers and Polymers</i> , 2017, 18, 1780-1789.	2.1	9
410	Reversible Phase Transfer of Carbon Dots between an Organic Phase and Aqueous Solution Triggered by CO ₂ . <i>Angewandte Chemie</i> , 2018, 130, 3749-3753.	2.0	9
411	Enhanced Catalytic Activity with Oxygen for Methyl Acrylate Production via Cross-Aldol Condensation Reaction. <i>Chemical Engineering and Technology</i> , 2018, 41, 1331-1341.	1.5	9
412	Functional Ionic Liquid Modified Core-Shell Structured Fibrous Gel Polymer Electrolyte for Safe and Efficient Fast Charging Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2019, 7, 421.	3.6	9
413	Chemical speciation and health risks of airborne heavy metals around an industrial community in Nigeria. <i>Human and Ecological Risk Assessment (HERA)</i> , 2020, 26, 242-254.	3.4	9
414	Boosting the hole transport of conductive polymers by regulating the ion ratio in ionic liquid additives. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9796-9807.	2.8	9

#	ARTICLE	IF	CITATIONS
415	Fast Catalytic Esterification Using a Hydrophobized Zr-MOF with Acidic Ionic Liquid Linkers. <i>ChemistrySelect</i> , 2020, 5, 1153-1156.	1.5	9
416	Efficient activation of dimethyl carbonate to synthesize bio-based polycarbonate by eco-friendly amino acid ionic liquid catalyst. <i>Applied Catalysis A: General</i> , 2021, 617, 118111.	4.3	9
417	Thermodynamical Origin of Nonmonotonic Inserting Behavior of Imidazole Ionic Liquids into the Lipid Bilayer. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9926-9932.	4.6	9
418	Preparation and characterization of gel polymer electrolytes based on acrylonitrile-methoxy polyethylene glycol (350) monoacrylate-lithium acrylate terpolymers. <i>Electrochimica Acta</i> , 2008, 54, 606-610.	5.2	8
419	Enhanced delignification of cornstalk by employing superbases TBD in ionic liquids. <i>RSC Advances</i> , 2014, 4, 27430-27438.	3.6	8
420	Ni-enhanced Co ₃ O ₄ nanoarrays grown in situ on a Cu substrate as integrated anode materials for high-performance Li-ion batteries. <i>RSC Advances</i> , 2015, 5, 7388-7394.	3.6	8
421	Insight into the activity of efficient acid-base bifunctional catalysts for the coupling reaction of CO ₂ . <i>Molecular Physics</i> , 2015, 113, 3524-3530.	1.7	8
422	Novel ionic liquid based electrolyte for double layer capacitors with enhanced high potential stability. <i>Science China Chemistry</i> , 2016, 59, 547-550.	8.2	8
423	Effects of lithium bis(oxalato)borate on electrochemical stability of [Emim][Al ₂ Cl ₇] ionic liquid for aluminum electrolysis. <i>Ionics</i> , 2017, 23, 959-966.	2.4	8
424	Effect of Ion Cluster on Concentration of Long-Alkyl-Chain Ionic Liquids Aqueous Solution by Nanofiltration. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7633-7642.	3.7	8
425	Highly Efficient and Selective Synthesis of Methyl Carbonate-Ended Polycarbonate Precursors from Dimethyl Carbonate and Bisphenol A. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13948-13955.	3.7	8
426	Effect of Framework Si/Al Ratios on the Catalytic Performance of Isobutane Alkylation over LaFAU Zeolites. <i>Energy & Fuels</i> , 2020, 34, 9426-9435.	5.1	8
427	Ionic liquid decoration for the hole transport improvement of PEDOT. <i>Materials Advances</i> , 2021, 2, 2009-2020.	5.4	8
428	Two fluid model using kinetic theory for modeling of one-step hydrogen production gasifier. <i>AIChE Journal</i> , 2008, 54, 2833-2851.	3.6	7
429	Extraction of coal-tar pitch using NMP/ILs mixed solvents. <i>Science China Chemistry</i> , 2014, 57, 1760-1765.	8.2	7
430	Carbonyl ruthenium catalysts for the low-temperature water-gas shift reaction with ionic liquids as support structure controllers. <i>Green Chemistry</i> , 2016, 18, 4704-4713.	9.0	7
431	New series of soft materials based on ionic liquid-metal complexes for high-efficient electrolytes of dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14630-14638.	10.3	7
432	Azetidinium-based Hypergolic Ionic Liquids with High Strain Energy. <i>ChemistrySelect</i> , 2018, 3, 284-288.	1.5	7

#	ARTICLE	IF	CITATIONS
433	Cobalt-Catalyzed Chemoselective Transfer Hydrogenative Cyclization Cascade of Enone-Tethered Aldehydes. <i>Organic Letters</i> , 2021, 23, 3873-3878.	4.6	7
434	Hydrodynamics numerical simulation of a vertical falling film evaporator for ionic liquid systems. <i>Chemical Engineering Science</i> , 2021, 237, 116563.	3.8	7
435	Pd-promoted heteropolyacid on mesoporous zirconia as a stable and bifunctional catalyst for oxidation of thiophenes. <i>Fuel</i> , 2022, 310, 122462.	6.4	7
436	Acylamido-based anion-functionalized ionic liquids for efficient synthesis of poly(isosorbide) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	4.1	7
437	Infinite Dilution Activity Coefficients in Ethylene Glycol and Ethylene Carbonate. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 167-170.	1.9	6
438	Dispersion of modified carbon nanotubes in 1-butyl-3-methyl imidazolium tetrafluoroborate. <i>Journal of Materials Science</i> , 2006, 41, 3123-3126.	3.7	6
439	An effective two-step ionic liquids method for cornstalk pretreatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 2057-2065.	3.2	6
440	Dissolution of Sessile Microdroplets of Electrolyte and Graphene Oxide Solutions in an Ouzo System. <i>Langmuir</i> , 2016, 32, 10296-10304.	3.5	6
441	Practices for modeling oil shale pyrolysis and kinetics. <i>Reviews in Chemical Engineering</i> , 2017, 34, 21-42.	4.4	6
442	Ionic Liquid-Based Membranes for CO ₂ Separation. , 2018, , 235-260.		6
443	Preparation of the Catalytic Chitin/Zn Composite by Combined Ionic Liquid-Based Inorganic Salt Aqueous Solution from Shrimp Shells. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	6
444	2D Meso/Microporous Platelet Carbon Derived from Metal-Organic frameworks and Its Application in High-Performance Li-ES Batteries. <i>ChemElectroChem</i> , 2019, 6, 3091-3100.	3.4	6
445	Strategy Combining Free Volume Theory and Fragment Contribution Corresponding State Method for Predicting Viscosities of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5640-5649.	3.7	6
446	Density, Viscosity, and Conductivity of [VAIM][TFSI] in Mixtures for Lithium-Ion Battery Electrolytes. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 495-502.	1.9	6
447	Kinetic-matching between electrodes and electrolyte enabling solid-state sodium-ion capacitors with improved voltage output and ultra-long cyclability. <i>Chemical Engineering Journal</i> , 2021, 421, 127832.	12.7	6
448	Interaction and Mechanism between Imidazolium Ionic Liquids and the Zwitterionic Amino Acid Tyr: a DFT Study. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, .	4.9	6
449	Elucidating the Zeolite Particle Size Effect on Butene/Isobutane Alkylation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 1032-1043.	3.7	6
450	Effects of LiClO ₄ on the Characteristics and Ionic Conductivity of the Solid Polymer Electrolytes Composed of PEO, LiClO ₄ and PLiAA. <i>Materials Science Forum</i> , 2013, 743-744, 53-58.	0.3	5

#	ARTICLE	IF	CITATIONS
451	Size effects of alkylimidazolium cations on the interfacial properties and CO ₂ uptake capacity in layered organic-inorganic imidazolium-TiO ₂ hybrids. RSC Advances, 2016, 6, 23102-23109.	3.6	5
452	Electrolytic solvent effects on the gassing behavior in LCO LTO batteries. Electrochimica Acta, 2018, 274, 170-176.	5.2	5
453	Sterically controlling 2-carboxylated imidazolium salts for one-step efficient hydration of epoxides into 1,2-diols. Green Chemistry, 2021, 23, 2992-3000.	9.0	5
454	Ionic Liquids Achieve the Exfoliation of Ultrathin Two-Dimensional VOPO ₄ ·2H ₂ O Crystalline Nanosheets: Implications on Energy Storage and Catalysis. ACS Applied Nano Materials, 2021, 4, 2503-2514.	5.0	5
455	Investigating the property and strength of intermolecular interaction in saturated and unsaturated cyclic cations constructed ionic liquids. Journal of Molecular Liquids, 2021, 335, 116253.	4.9	5
456	In Situ Electron Transport Layers by a Carboxyl Ionic Liquid-Assisted Microwave Technique for a 20.1% Perovskite Solar Cell. ACS Applied Energy Materials, 0, , .	5.1	5
457	Cobalt-doped hierarchical porous carbon materials with spherical chrysanthemum-like structures that are derived from the PVP-assisted synthesis of metal organic frameworks for advanced Li-S batteries. Journal of Alloys and Compounds, 2022, 918, 165741.	5.5	5
458	A self-assembled Si/SWNT 3D-composite-nanonetwork as a high-performance lithium ion battery anode. RSC Advances, 2015, 5, 97289-97294.	3.6	4
459	Computational Identification of a New Adsorption Site of CO ₂ on the Ag (211) Surface. ChemistrySelect, 2020, 5, 11503-11509.	1.5	4
460	Ionische Flüssigkeiten und stark eutektische Lösungsmittel in der anorganischen Synthese. Angewandte Chemie, 2021, 133, 22320-22338.	2.0	4
461	Tracking the Micro-Heterogeneity and Hydrogen-Bonding Interactions in Hydroxyl-Functionalized Ionic Liquid Solutions: A Combined Experimental and Computational Study. ChemPhysChem, 2021, 22, 1891-1899.	2.1	4
462	Natural Deep Eutectic Solvents Enhanced Electro-Enzymatic Conversion of CO ₂ to Methanol. Frontiers in Chemistry, 2022, 10, .	3.6	4
463	A double-layered Ge/carbon cloth integrated anode for high performance lithium ion batteries. RSC Advances, 2016, 6, 63414-63417.	3.6	3
464	Study on the Wall Lubrication Force for Water-Air in Multi-Scale Bubble Columns and Experimental Validation. Journal of Chemical Engineering of Japan, 2016, 49, 408-416.	0.6	3
465	Process Analysis for the Production of Hydrogen and Liquid Fuels from Oil Shale. Energy Technology, 2017, 5, 1963-1978.	3.8	3
466	Green chemical engineering in China. Reviews in Chemical Engineering, 2019, 35, 995-1077.	4.4	3
467	Fabrication of Ionic Liquid-Based Pickering Emulsion and Its Enhancement for Tri-isobutene Formation in Isobutene Oligomerization. Industrial & Engineering Chemistry Research, 2020, 59, 10436-10446.	3.7	3
468	Ex-situ catalytic fast pyrolysis of low-rank coal over HZSM-5 and modified Mg/HZSM-5 catalysts. International Journal of Energy Research, 2022, 46, 891-899.	4.5	3

#	ARTICLE	IF	CITATIONS
469	Highly Sensitive Flexible Pressure Sensors Enabled by Mixing of Silicone Elastomer With Ionic Liquid-Grafted Silicone Oil. <i>Frontiers in Robotics and AI</i> , 2021, 8, 737500.	3.2	3
470	Preparation and Performance of Novel Acrylonitrile (AN)-based Copolymer Gel Electrolytes for Lithium Ion Batteries. <i>ECS Transactions</i> , 2009, 16, 115-122.	0.5	2
471	Solvothermal synthesis of mesoporous magnetite nanoparticles for Cr(IV) ions uptake and microwave absorption. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	2
472	Double-Confined Sulfur Inside Compressed Nickel Foam and Pencil-Plating Graphite for Lithium-Sulfur Battery. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4880-4886.	3.7	2
473	In Situ Tracking of Organic Reactions at the Vapor/Liquid Interfaces of Ionic Liquids. <i>ChemPhysChem</i> , 2018, 19, 2741-2750.	2.1	2
474	Ionic Liquids: Molecular Insights into the Regulatable Interfacial Property and Flow Behavior of Confined Ionic Liquids in Graphene Nanochannels (Small 29/2019). <i>Small</i> , 2019, 15, 1970156.	10.0	2
475	A paradigm for the efficient synthesis of bio-based polycarbonate with deep eutectic solvents as catalysts by inhibiting the degradation of molecular chains. <i>Green Chemistry</i> , 2021, 23, 4134-4143.	9.0	2
476	H-Bond Network-Regulated Binder for Si/Graphite Anodes. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 17399-17407.	3.7	2
477	Construction of stable SEI film on Si@C high-loading electrodes by dimethoxydimethylsilane electrolyte additives. <i>Ionics</i> , 2022, 28, 1625-1634.	2.4	2
478	Bifunctional additive phenyl vinyl sulfone for boosting cyclability of lithium metal batteries. <i>Green Chemical Engineering</i> , 2023, 4, 49-56.	6.3	2
479	Quantitative Control Factors of Double Salt Ionic Liquids Catalysis in the Coupling Reaction of Epoxied and Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10112-10118.	3.7	1
480	Green Chemical Engineering Based on Ionic Liquids. , 2019, , 667-690.		1
481	SYNTHESIS OF AZEOTROPE SEPARATION BASED ON GREEN CHEMICAL PRINCIPLES. , 2004, , .		1
482	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites (Adv. Mater. 7/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	1
483	Enhanced Performance in Vapor O-Methylation of Hydroxybenzene Over a Novel Kind of Mesoporous Rare Earth Phosphate. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 857-864.	2.8	0
484	Preparation and Characterization of a Novel Gel Polymer Membrane Based on a Tetra-Copolymer. <i>Advanced Materials Research</i> , 2011, 396-398, 1755-1759.	0.3	0
485	A Highly Stable Li4Ti5O12 Suspension Anolyte for Lithium Ion Flow Batteries. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, S163-S170.	0.6	0
486	Ionic Liquid Based Electrolyte for Electrochemical Energy Storage Application. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0

#	ARTICLE	IF	CITATIONS
487	Green Chemical Engineering Based on Ionic Liquids. , 2018, , 1-24.		0
488	Hybrid/Tandem Strategy for High-efficient Solar Cell Systems. , 0, , .		0
489	Electrodeposition of Aluminum in Ionic Liquids. , 2019, , .		0
490	Degradation of lignin in ionic liquids: a review. Scientia Sinica Chimica, 2020, 50, 259-270.	0.4	0