Ya-Qin Zhang

List of Publications by Year
in descending order

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490 papers	26,521 citations	7561 77 h-index	11601 135 g-index
495 all docs	495 docs citations	495 times ranked	21809 citing authors

#	Article	IF	Citations
1	Bifunctional additive phenyl vinyl sulfone for boosting cyclability of lithium metal batteries. Green Chemical Engineering, 2023, 4, 49-56.	3.3	2
2	Advanced Nonflammable Localized Highâ€Concentration Electrolyte For High Energy Density Lithium Battery. Energy and Environmental Materials, 2022, 5, 1294-1302.	7.3	24
3	<scp>Exâ€situ</scp> catalytic fast pyrolysis of <scp>lowâ€rank</scp> coal over <scp>HZSM</scp> â€5 and modified Mg/ <scp>HZSM</scp> â€5 catalysts. International Journal of Energy Research, 2022, 46, 891-899.	2.2	3
4	Colorless BHET obtained from PET by modified mesoporous catalyst ZnO/SBA-15. Chemical Engineering Science, 2022, 248, 117109.	1.9	28
5	State of the art of ionic liquidâ€modified adsorbents for<scp>CO₂</scp>capture and separation. AICHE Journal, 2022, 68, e17500.	1.8	33
6	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites. Advanced Materials, 2022, 34, e2107400.	11.1	68
7	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.	9.5	77
8	Unraveling the Synergistic Coupling Mechanism of Li⁺ Transport in an â€œIonogelâ€inâ€Ceramicâ€• Hybrid Solid Electrolyte for Rechargeable Lithium Metal Battery. Advanced Functional Materials, 2022, 32, 2108706.	7.8	38
9	Pd-promoted heteropolyacid on mesoporous zirconia as a stable and bifunctional catalyst for oxidation of thiophenes. Fuel, 2022, 310, 122462.	3.4	7
10	Highly Efficient Electrocatalytic CO₂ Reduction to C₂₊ Products on a Poly(ionic liquid)â€Based Cu⁰â€“Cu^I Tandem Catalyst. Angewandte Chemie - International Edition, 2022, 61, .	7.2	77
11	Elucidating the Zeolite Particle Size Effect on Butene/Isobutane Alkylation. Industrial & Engineering Chemistry Research, 2022, 61, 1032-1043.	1.8	6
12	Developing and Regenerating Cofactors for Sustainable Enzymatic CO2 Conversion. Processes, 2022, 10, 230.	1.3	13
13	Construction of stable SEI film on Si@C high-loading electrodes by dimethoxydimethylsilane electrolyte additives. Ionics, 2022, 28, 1625-1634.	1.2	2
14	Acylamido-based anion-functionalized ionic liquids for efficient synthesis of poly(isosorbide) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	2.1	7
15	Insights into Ionic Liquids: From Z-Bonds to Quasi-Liquids. Jacs Au, 2022, 2, 543-561.	3.6	42
16	Principles and strategies for green process engineering. Green Chemical Engineering, 2022, 3, 1-4.	3.3	10
17	Hostâ€“guest molecular interaction promoted urea electrosynthesis over a precisely designed conductive metalâ€“organic framework. Energy and Environmental Science, 2022, 15, 2084-2095.	15.6	73
18	Synergistic Effect of TMSPi and FEC in Regulating the Electrode/Electrolyte Interfaces in Nickel-Rich Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 11517-11527.	4.0	24

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19	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	11.1	1
20	Vertically Heterostructured Solid Electrolytes for Lithium Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	23
21	Ionic Liquidâ€Based Redox Active Electrolytes for Supercapacitors. Advanced Functional Materials, 2022, 32, .	7.8	40
22	Natural Deep Eutectic Solvents Enhanced Electro-Enzymatic Conversion of CO2 to Methanol. Frontiers in Chemistry, 2022, 10, .	1.8	4
23	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.	2.8	5
24	LiNO3 and TMP enabled high voltage room-temperature solid-state lithium metal battery. Chemical Engineering Journal, 2022, 448, 137743.	6.6	12
25	Highâ€Performance Rechargeable Aluminumâ€Ion Batteries Enabled by Composite FeF₃ @ Expanded Graphite Cathode and Carbon Nanotubeâ€Modified Separator. Advanced Energy Materials, 2022, 12, .	10.2	12
26	High CO2 absorption capacity of metal-based ionic liquids: A molecular dynamics study. Green Energy and Environment, 2021, 6, 253-260.	4.7	60
27	Phosphorus-Based Ionic Liquid as Dual Function Promoter Oriented Synthesis of Efficient VPO Catalyst for Selective Oxidation of n-butane. Catalysis Letters, 2021, 151, 255-266.	1.4	14
28	Stimuliâ€Responsive Ionic Liquids and the Regulation of Aggregation Structure and Phase Behaviorâ€. Chinese Journal of Chemistry, 2021, 39, 729-744.	2.6	16
29	Kinetic-matching between electrodes and electrolyte enabling solid-state sodium-ion capacitors with improved voltage output and ultra-long cyclability. Chemical Engineering Journal, 2021, 421, 127832.	6.6	6
30	Recent progress in electrochemical synthesis of ammonia from nitrogen: strategies to improve the catalytic activity and selectivity. Energy and Environmental Science, 2021, 14, 672-687.	15.6	188
31	Metal-organic frameworks containing solid-state electrolytes for lithium metal batteries and beyond. Materials Chemistry Frontiers, 2021, 5, 1771-1794.	3.2	34
32	Ionic liquids/deep eutectic solvents for CO2 capture: Reviewing and evaluating. Green Energy and Environment, 2021, 6, 314-328.	4.7	108
33	Efficient synthesis of isosorbide-based polycarbonate with scalable dicationic ionic liquid catalysts by balancing the reactivity of the endo-OH and exo-OH. Green Chemistry, 2021, 23, 973-982.	4.6	24
34	NH3 separation membranes with self-assembled gas highways induced by protic ionic liquids. Chemical Engineering Journal, 2021, 421, 127876.	6.6	23
35	Synthesis of bio-based polycarbonate via one-step melt polycondensation of isosorbide and dimethyl carbonate by dual site-functionalized ionic liquid catalysts. Green Chemistry, 2021, 23, 447-456.	4.6	16
36	Lithium slurry flow cell, a promising device for the future energy storage. Green Energy and Environment, 2021, 6, 5-8.	4.7	24

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37	Molecular thermodynamic understanding of transport behavior of <scp>CO₂</scp> at the ionic liquidsâ€electrode interface. AICHE Journal, 2021, 67, e17060.	1.8	12
38	Ultralong cycling and wide temperature range of lithium metal batteries enabled by solid polymer electrolytes interpenetrated with a poly(liquid crystal) network. Journal of Materials Chemistry A, 2021, 9, 6232-6241.	5.2	33
39	Ionozyme: ionic liquids as solvent and stabilizer for efficient bioactivation of CO₂. Green Chemistry, 2021, 23, 6990-7000.	4.6	13
40	Encapsulation of multiple enzymes in a metalâ€“organic framework with enhanced electro-enzymatic reduction of CO₂ to methanol. Green Chemistry, 2021, 23, 2362-2371.	4.6	51
41	A paradigm for the efficient synthesis of bio-based polycarbonate with deep eutectic solvents as catalysts by inhibiting the degradation of molecular chains. Green Chemistry, 2021, 23, 4134-4143.	4.6	2
42	Construction of a PPIL@COF coreâ€“shell composite with enhanced catalytic activity for CO₂ conversion. Green Chemistry, 2021, 23, 2411-2419.	4.6	47
43	Insights into the electrochemical degradation of phenolic lignin model compounds in a protic ionic liquidâ€“water system. Green Chemistry, 2021, 23, 1665-1677.	4.6	33
44	Sterically controlling 2-carboxylated imidazolium salts for one-step efficient hydration of epoxides into 1,2-diols. Green Chemistry, 2021, 23, 2992-3000.	4.6	5
45	Ionophobic nanopores enhancing the capacitance and charging dynamics in supercapacitors with ionic liquids. Journal of Materials Chemistry A, 2021, 9, 15985-15992.	5.2	27
46	Ionic liquid additive stabilized cathode/electrolyte interface in LiCoO2 based solid-state lithium metal batteries. Electrochimica Acta, 2021, 368, 137593.	2.6	13
47	Multiple Hydrogen Bonds Promote the Nonmetallic Degradation Process of Polyethylene Terephthalate with an Amino Acid Ionic Liquid Catalyst. Industrial & Engineering Chemistry Research, 2021, 60, 4180-4188.	1.8	16
48	Ionic Liquids Achieve the Exfoliation of Ultrathin Two-Dimensional VOPO₄Â·2H₂O Crystalline Nanosheets: Implications on Energy Storage and Catalysis. ACS Applied Nano Materials, 2021, 4, 2503-2514.	2.4	5
49	Intensified Energy Storage in High-Voltage Nanohybrid Supercapacitors via the Efficient Coupling between TiNb₂O₇/Holey-rGO Nanoarchitectures and Ionic Liquid-Based Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 21349-21361.	4.0	18
50	Selective Extraction of Lithium from Spent Lithium Batteries by Functional Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2021, 9, 7022-7029.	3.2	54
51	A Highly Stable Li4Ti5O12 Suspension Anolyte for Lithium Ion Flow Batteries. Russian Journal of Physical Chemistry A, 2021, 95, S163-S170.	0.1	0
52	Preparation of Core/Shell Electrically Conductive Fibers by Efficient Coating Carbon Nanotubes on Polyester. Advanced Fiber Materials, 2021, 3, 180-191.	7.9	26
53	High performance thick cathodes enabled by gradient porosity. Electrochimica Acta, 2021, 377, 138105.	2.6	22
54	Efficient activation of dimethyl carbonate to synthesize bio-based polycarbonate by eco-friendly amino acid ionic liquid catalyst. Applied Catalysis A: General, 2021, 617, 118111.	2.2	9

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55	Cobalt-Catalyzed Chemoselective Transfer Hydrogenative Cyclization Cascade of Enone-Tethered Aldehydes. Organic Letters, 2021, 23, 3873-3878.	2.4	7
56	Abnormal Enhanced Free Ions of Ionic Liquids Confined in Carbon Nanochannels. Journal of Physical Chemistry Letters, 2021, 12, 6078-6084.	2.1	15
57	Hydrodynamics numerical simulation of a vertical falling film evaporator for ionic liquid systems. Chemical Engineering Science, 2021, 237, 116563.	1.9	7
58	Technoeconomic Analysis and Process Design for CO₂ Electroreduction to CO in Ionic Liquid Electrolyte. ACS Sustainable Chemistry and Engineering, 2021, 9, 9045-9052.	3.2	20
59	Inâ€Built Quasiâ€Solidâ€State Polyâ€Ether Electrolytes Enabling Stable Cycling of Highâ€Voltage and Wideâ€Temperature Li Metal Batteries. Advanced Functional Materials, 2021, 31, 2102347.	7.8	35
60	Inorganic Synthesis Based on Reactions of Ionic Liquids and Deep Eutectic Solvents. Angewandte Chemie - International Edition, 2021, 60, 22148-22165.	7.2	107
61	Enhanced high-temperature performance and thermal stability of lithium-rich cathode via combining full concentration gradient design with surface spinel modification. Chemical Engineering Journal, 2021, 415, 129042.	6.6	20
62	Quantitative Control Factors of Double Salt Ionic Liquids Catalysis in the Coupling Reaction of Epoxied and Methanol. Industrial & Engineering Chemistry Research, 2021, 60, 10112-10118.	1.8	1
63	Ionische FlÃ¼ssigkeiten und stark eutektische LÃ¶sungsmittel in der anorganischen Synthese. Angewandte Chemie, 2021, 133, 22320-22338.	1.6	4
64	Investigating the property and strength of intermolecular interaction in saturated and unsaturated cyclic cations constructed ionic liquids. Journal of Molecular Liquids, 2021, 335, 116253.	2.3	5
65	Tracking the Microâ€Heterogeneity and Hydrogenâ€Bonding Interactions in Hydroxylâ€Functionalized Ionic Liquid Solutions: A Combined Experimental and Computational Study. ChemPhysChem, 2021, 22, 1891-1899.	1.0	4
66	Development of an Ionic Porphyrin-Based Platform as a Biomimetic Light-Harvesting Agent for High-Performance Photoenzymatic Synthesis of Methanol from CO₂. ACS Sustainable Chemistry and Engineering, 2021, 9, 11503-11511.	3.2	27
67	Highly Sensitive Flexible Pressure Sensors Enabled by Mixing of Silicone Elastomer With Ionic Liquid-Grafted Silicone Oil. Frontiers in Robotics and AI, 2021, 8, 737500.	2.0	3
68	High-Voltage and Wide-Temperature Lithium Metal Batteries Enabled by Ultrathin MOF-Derived Solid Polymer Electrolytes with Modulated Ion Transport. ACS Applied Materials & Interfaces, 2021, 13, 47163-47173.	4.0	42
69	Regulating electrochemical CO2RR selectivity at industrial current densities by structuring copper@poly(ionic liquid) interface. Applied Catalysis B: Environmental, 2021, 297, 120471.	10.8	41
70	Ruthenium complex immobilized on supported ionic-liquid-phase (SILP) for alkoxycarbonylation of olefins with CO₂. Green Chemistry, 2021, 23, 3073-3080.	4.6	12
71	Recent advances in non-precious metal electrocatalysts for oxygen reduction in acidic media and PEMFCs: an activity, stability and mechanism study. Green Chemistry, 2021, 23, 6898-6925.	4.6	32
72	Understanding Structural and Transport Properties of Dissolved Li₂S₈ in Ionic Liquid Electrolytes through Molecular Dynamics Simulations. ChemPhysChem, 2021, 22, 419-429.	1.0	16

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73	Metal-free and mild photo-thermal synergism in ionic liquids for lignin C_{Î±}â€“C_{Î²} bond cleavage to provide aldehydes. Green Chemistry, 2021, 23, 5524-5534.	4.6	15
74	Constructing single Cuâ€“N₃ sites for CO₂ electrochemical reduction over a wide potential range. Green Chemistry, 2021, 23, 5461-5466.	4.6	22
75	Ionic liquid decoration for the hole transport improvement of PEDOT. Materials Advances, 2021, 2, 2009-2020.	2.6	8
76	Review of Methods for Sustainability Assessment of Chemical Engineering Processes. Industrial & Engineering Chemistry Research, 2021, 60, 52-66.	1.8	10
77	Dehydrative Formation of Isosorbide from Sorbitol over Poly(ionic liquid)â€“Covalent Organic Framework Hybrids. ACS Applied Materials & Interfaces, 2021, 13, 552-562.	4.0	17
78	Thermodynamical Origin of Nonmonotonic Inserting Behavior of Imidazole Ionic Liquids into the Lipid Bilayer. Journal of Physical Chemistry Letters, 2021, 12, 9926-9932.	2.1	9
79	Topological engineering of two-dimensional ionic liquid islands for high structural stability and CO₂ adsorption selectivity. Chemical Science, 2021, 12, 15503-15510.	3.7	16
80	Epitaxial Regeneration of Spent Graphite Anode Material by an Eco-friendly In-Depth Purification Route. ACS Sustainable Chemistry and Engineering, 2021, 9, 16192-16202.	3.2	27
81	H-Bond Network-Regulated Binder for Si/Graphite Anodes. Industrial & Engineering Chemistry Research, 2021, 60, 17399-17407.	1.8	2
82	Highly selective electroreduction of N₂ and CO₂ to urea over artificial frustrated Lewis pairs. Energy and Environmental Science, 2021, 14, 6605-6615.	15.6	130
83	Chemical speciation and health risks of airborne heavy metals around an industrial community in Nigeria. Human and Ecological Risk Assessment (HERA), 2020, 26, 242-254.	1.7	9
84	Mesoscale structures and mechanisms in ionic liquids. Particuology, 2020, 48, 55-64.	2.0	22
85	Structure optimization of tailored ionic liquids and process simulation for shale gas separation. AICHE Journal, 2020, 66, e16794.	1.8	34
86	Density, Viscosity, and Conductivity of [VAIM][TFSI] in Mixtures for Lithium-Ion Battery Electrolytes. Journal of Chemical & Engineering Data, 2020, 65, 495-502.	1.0	6
87	A space-confined strategy toward large-area two-dimensional crystals of ionic liquid. Physical Chemistry Chemical Physics, 2020, 22, 1820-1825.	1.3	15
88	Combining Ionic Liquids and Sodium Salts into Metalâ€Organic Framework for Highâ€Performance Ionic Conduction. ChemElectroChem, 2020, 7, 183-190.	1.7	19
89	Thermodynamics at microscalesï¼š 3Dâ†’2D, 1D and 0D. Green Energy and Environment, 2020, 5, 251-258.	4.7	19
90	An ultra-stable lithium plating process enabled by the nanoscale interphase of a macromolecular additive. Journal of Materials Chemistry A, 2020, 8, 23844-23850.	5.2	12

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91	Computational Identification of a New Adsorption Site of CO₂ on the Ag (211) Surface. ChemistrySelect, 2020, 5, 11503-11509.	0.7	4
92	Unraveling the cation and anion effects and kinetics for ionic liquid catalyzed direct synthesis of methyl acrylate under mild conditions. Green Chemistry, 2020, 22, 7913-7923.	4.6	17
93	Aromatic Esterâ€Functionalized Ionic Liquid for Highly Efficient CO₂ Electrochemical Reduction to Oxalic Acid. ChemSusChem, 2020, 13, 4900-4905.	3.6	33
94	Selective aerobic oxidative cleavage of lignin C C bonds over novel hierarchical Ce-Cu/MFI nanosheets. Applied Catalysis B: Environmental, 2020, 279, 119343.	10.8	49
95	Advances in bio-nylon 5X: discovery of new lysine decarboxylases for the high-level production of cadaverine. Green Chemistry, 2020, 22, 8656-8668.	4.6	29
96	Sustainable Advanced Fenton-like Catalysts Based on Mussel-Inspired Magnetic Cellulose Nanocomposites to Effectively Remove Organic Dyes and Antibiotics. ACS Applied Materials & Interfaces, 2020, 12, 51952-51959.	4.0	64
97	Highly Efficient and Selective Synthesis of Methyl Carbonate-Ended Polycarbonate Precursors from Dimethyl Carbonate and Bisphenol A. Industrial & Engineering Chemistry Research, 2020, 59, 13948-13955.	1.8	8
98	A Mn-N3 single-atom catalyst embedded in graphitic carbon nitride for efficient CO2 electroreduction. Nature Communications, 2020, 11, 4341.	5.8	257
99	Dynamic Process Simulation and Assessment of CO₂ Removal from Confined Spaces Using Pressure Swing Adsorption. Industrial & Engineering Chemistry Research, 2020, 59, 16407-16419.	1.8	12
100	Effect of Framework Si/Al Ratios on the Catalytic Performance of Isobutane Alkylation over LaFAU Zeolites. Energy & Fuels, 2020, 34, 9426-9435.	2.5	8
101	Sequential drug release via chemical diffusion and physical barriers enabled by hollow multishelled structures. Nature Communications, 2020, 11, 4450.	5.8	52
102	Effect of Clusters on [Li] Solvation and Transport in Mixed Organic Compound/Ionic Liquid Electrolytes under External Electric Fields. Industrial & Engineering Chemistry Research, 2020, 59, 11308-11316.	1.8	14
103	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.	1.8	3
104	Catalytic synthesis of methacrolein via the condensation of formaldehyde and propionaldehyde with <scp>l</scp>-proline. Green Chemistry, 2020, 22, 4222-4230.	4.6	12
105	A new strategy for enhancing the room temperature conductivity of solid-state electrolyte by using a polymeric ionic liquid. Ionics, 2020, 26, 4803-4812.	1.2	22
106	One-pot synthesis of bio-based polycarbonates from dimethyl carbonate and isosorbide under metal-free condition. Green Chemistry, 2020, 22, 4550-4560.	4.6	22
107	A non-phosgene process for bioderived polycarbonate with high molecular weight and advanced property profile synthesized using amino acid ionic liquids as catalysts. Green Chemistry, 2020, 22, 2534-2542.	4.6	28
108	Hierarchically porous covalent organic frameworks assembled in ionic liquids for highly effective catalysis of Câ€“C coupling reactions. Green Chemistry, 2020, 22, 2605-2612.	4.6	47

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109	Synthesis of bioderived polycarbonates with adjustable molecular weights catalyzed by phenolic-derived ionic liquids. Green Chemistry, 2020, 22, 2488-2497.	4.6	27
110	Excess spectroscopy and its applications in the study of solution chemistry. Pure and Applied Chemistry, 2020, 92, 1611-1626.	0.9	38
111	Light-Controlled Nanoparticle Collision Experiments. Journal of Physical Chemistry Letters, 2020, 11, 2972-2976.	2.1	11
112	Boosting the hole transport of conductive polymers by regulating the ion ratio in ionic liquid additives. Physical Chemistry Chemical Physics, 2020, 22, 9796-9807.	1.3	9
113	A Flexible Ceramic/Polymer Hybrid Solid Electrolyte for Solidâ€State Lithium Metal Batteries. Advanced Materials, 2020, 32, e2000399.	11.1	292
114	Screening Deep Eutectic Solvents for CO2 Capture With COSMO-RS. Frontiers in Chemistry, 2020, 8, 82.	1.8	36
115	Cost-Effective Synthesis of High Molecular Weight Biobased Polycarbonate via Melt Polymerization of Isosorbide and Dimethyl Carbonate. ACS Sustainable Chemistry and Engineering, 2020, 8, 9968-9979.	3.2	27
116	Structure and interaction properties of MBIL [Bmim][FeCl4] and methanol: A combined FTIR and simulation study. Journal of Molecular Liquids, 2020, 309, 113061.	2.3	26
117	Unleashing ultra-fast sodium ion storage mechanisms in interface-engineered monolayer MoS₂/C interoverlapped superstructure with robust charge transfer networks. Journal of Materials Chemistry A, 2020, 8, 15002-15011.	5.2	26
118	Insight into the formation and permeability of ionic liquid unilamellar vesicles by molecular dynamics simulation. Soft Matter, 2020, 16, 2605-2610.	1.2	19
119	Enhancement of transdermal delivery of artemisinin using microemulsion vehicle based on ionic liquid and lidocaine ibuprofen. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110886.	2.5	37
120	Fast Catalytic Esterification Using a Hydrophobized Zrâ€MOF with Acidic Ionic Liquid Linkers. ChemistrySelect, 2020, 5, 1153-1156.	0.7	9
121	Novel continuous process for methacrolein production in numerous droplet reactors. AICHE Journal, 2020, 66, e16239.	1.8	20
122	Protic vs aprotic ionic liquid for CO2 fixation: A simulation study. Green Energy and Environment, 2020, 5, 183-194.	4.7	49
123	Degradation of poly(ethylene terephthalate) catalyzed by metal-free choline-based ionic liquids. Green Chemistry, 2020, 22, 3122-3131.	4.6	111
124	Excellent Trace Detection of Proteins on TiO₂ Nanotube Substrates through Novel Topography Optimization. Journal of Physical Chemistry C, 2020, 124, 27790-27800.	1.5	10
125	Interaction and Mechanism between Imidazolium Ionic Liquids and the Zwitterionic Amino Acid Tyr: a DFT Study. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	2.2	6
126	Degradation of lignin in ionic liquids: a review. Scientia Sinica Chimica, 2020, 50, 259-270.	0.2	0

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127	A new solid-state electrolyte based on polymeric ionic liquid for high-performance supercapacitor. Ionics, 2019, 25, 241-251.	1.2	14
128	A pyrolysis-free path toward superiorly catalytic nitrogen-coordinated single atom. Science Advances, 2019, 5, eaaw2322.	4.7	290
129	Insights into the solvation and dynamic behaviors of a lithium salt in organic- and ionic liquid-based electrolytes. Physical Chemistry Chemical Physics, 2019, 21, 19216-19225.	1.3	29
130	Amide-Functionalized Ionic Liquids As Curing Agents for Epoxy Resin: Preparation, Characterization, and Curing Behaviors with TDE-85. Industrial & Engineering Chemistry Research, 2019, 58, 14088-14097.	1.8	16
131	Study on ionic liquid/cellulose/coagulator phase diagram and its application in green spinning process. Journal of Molecular Liquids, 2019, 289, 111127.	2.3	20
132	Metalâ€Free Photochemical Degradation of Ligninâ€Derived Aryl Ethers and Lignin by Autologous Radicals through Ionic Liquid Induction. ChemSusChem, 2019, 12, 4005-4013.	3.6	37
133	Safety Issues in Lithium Ion Batteries: Materials and Cell Design. Frontiers in Energy Research, 2019, 7, .	1.2	145
134	Ionic Liquids: Molecular Insights into the Regulatable Interfacial Property and Flow Behavior of Confined Ionic Liquids in Graphene Nanochannels (Small 29/2019). Small, 2019, 15, 1970156.	5.2	2
135	Neuron-Mimic Smart Electrode: A Two-Dimensional Multiscale Synergistic Strategy for Densely Packed and High-Rate Lithium Storage. ACS Nano, 2019, 13, 9148-9160.	7.3	15
136	First-principles study on screening doped TiO2(B) as an anode material with high conductivity and low lithium transport resistance for lithium-ion batteries. Physical Chemistry Chemical Physics, 2019, 21, 17985-17992.	1.3	12
137	Achieving Both High Voltage and High Capacity in Aqueous Zincâ€Ion Battery for Record High Energy Density. Advanced Functional Materials, 2019, 29, 1906142.	7.8	285
138	Recent progress in theoretical and computational studies on the utilization of lignocellulosic materials. Green Chemistry, 2019, 21, 9-35.	4.6	96
139	Fabrication of Multilayered Molecularly Imprinted Membrane for Selective Recognition and Separation of Artemisinin. ACS Sustainable Chemistry and Engineering, 2019, 7, 3127-3137.	3.2	55
140	Highly Selective Oxygen/Nitrogen Separation Membrane Engineered Using a Porphyrin-Based Oxygen Carrier. Membranes, 2019, 9, 115.	1.4	19
141	Ceria imparts superior low temperature activity to nickel catalysts for CO₂ methanation. Catalysis Science and Technology, 2019, 9, 5636-5650.	2.1	40
142	Insight into the Relationship between Viscosity and Hydrogen Bond of a Series of Imidazolium Ionic Liquids: A Molecular Dynamics and Density Functional Theory Study. Industrial & Engineering Chemistry Research, 2019, 58, 18848-18854.	1.8	28
143	Effect of N/P ratios on the performance of LiNi0.8Co0.15Al0.05O2||SiO /Graphite lithium-ion batteries. Journal of Power Sources, 2019, 439, 227056.	4.0	31
144	Effects of the Water Content on the Transport Properties of Ionic Liquids. Industrial & Engineering Chemistry Research, 2019, 58, 19661-19669.	1.8	13

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145	Synthesis of Polyionic Liquid by Phenolic Condensation and Its Application in Esterification. ACS Sustainable Chemistry and Engineering, 2019, 7, 17220-17226.	3.2	21
146	Molecular Insights into the Regulatable Interfacial Property and Flow Behavior of Confined Ionic Liquids in Graphene Nanochannels. Small, 2019, 15, e1804508.	5.2	44
147	Improvement of product distribution through enhanced mass transfer in isobutane/butene alkylation. Chemical Engineering Research and Design, 2019, 143, 190-200.	2.7	15
148	Efficient hydrodeoxygenation of lignin-derived phenols and dimeric ethers with synergistic [Bmim]PF₆-Ru/SBA-15 catalysis under acid free conditions. Green Chemistry, 2019, 21, 597-605.	4.6	41
149	IL-oxidizer/IL-fuel combinations as greener hypergols. New Journal of Chemistry, 2019, 43, 1127-1129.	1.4	11
150	In situ generated 3D hierarchical Co₃O₄@MnO₂ coreâ€“shell hybrid materials: self-assembled fabrication, morphological control and energy applications. Journal of Materials Chemistry A, 2019, 7, 5967-5980.	5.2	32
151	Theoretical Insights Into the Depolymerization Mechanism of Lignin to Methyl p-hydroxycinnamate by [Bmim][FeCl4] Ionic Liquid. Frontiers in Chemistry, 2019, 7, 446.	1.8	14
152	Synthesis of high-molecular weight isosorbide-based polycarbonates through efficient activation of endo-hydroxyl groups by an ionic liquid. Green Chemistry, 2019, 21, 3891-3901.	4.6	33
153	2D Meso/Microporous Platelet Carbon Derived from Metalâ€Organic frameworks and Its Application in Highâ€Performance Liâ€S Batteries. ChemElectroChem, 2019, 6, 3091-3100.	1.7	6
154	A Wholly Degradable, Rechargeable Znâ€“Ti₃C₂ MXene Capacitor with Superior Anti-Self-Discharge Function. ACS Nano, 2019, 13, 8275-8283.	7.3	224
155	Functional Ionic Liquid Modified Core-Shell Structured Fibrous Gel Polymer Electrolyte for Safe and Efficient Fast Charging Lithium-Ion Batteries. Frontiers in Chemistry, 2019, 7, 421.	1.8	9
156	High Aluminum Content Beta Zeolite as an Active Lewis Acid Catalyst for Î³-Valerolactone Decarboxylation. Industrial & Engineering Chemistry Research, 2019, 58, 11841-11848.	1.8	12
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