

Shaojuan Zeng

List of Publications by Year in Descending Order

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

163
papers

7,688
citations

44
h-index

84
g-index

173
ext. papers

9,384
ext. citations

7.4
avg, IF

6.33
L-index

#	Paper	IF	Citations
163	Developing and Regenerating Cofactors for Sustainable Enzymatic CO ₂ Conversion. <i>Processes</i> , 2022 , 10, 230	2.9	3
162	Insight into CO ₂ /CH ₄ separation performance in ionic liquids/polymer membrane from molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2022 , 119119	6	1
161	Impregnation of 1-n-Butyl-3-methylimidazolium Dicyanide [BMIM][DCA] into ZIF-8 as a Versatile Sorbent for Efficient and Selective Separation of CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 706-715	3.9	1
160	Pt ₃ Fe Nanoparticles on B,N-Codoped Carbon as Oxygen Reduction and pH-Universal Hydrogen Evolution Electrocatalysts. <i>ACS Applied Nano Materials</i> , 2022 , 5, 318-325	5.6	0
159	Suspended particles behavior in aqueous [Bmim]BF ₄ solution by novel on-line electrical sensing zone method. <i>Chemical Engineering Science</i> , 2021 , 117280	4.4	0
158	InSitu Carbon Encapsulation Confined Nickel-Doped Indium Oxide Nanocrystals for Boosting CO ₂ Electroreduction to the Industrial Level. <i>ACS Catalysis</i> , 2021 , 11, 14596-14604	13.1	6
157	Efficient Electrochemical Reduction of CO ₂ to CO in Ionic Liquids. <i>ChemistrySelect</i> , 2021 , 6, 9873-9879	1.8	3
156	Review of Methods for Sustainability Assessment of Chemical Engineering Processes. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 52-66	3.9	6
155	Task-Specific Ionic Liquids Tuning ZIF-67/PIM-1 Mixed Matrix Membranes for Efficient CO ₂ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 593-603	3.9	7
154	Technical-environmental assessment of CO ₂ conversion process to dimethyl carbonate/ethylene glycol. <i>Journal of Cleaner Production</i> , 2021 , 288, 125598	10.3	4
153	An Overview of Ammonia Separation by Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6908-6924	3.9	3
152	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	8.3	10
151	Exploring NH ₃ Transport Properties by Tailoring Ionic Liquids in Pebax-Based Hybrid Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9570-9577	3.9	1
150	Prediction of the Liquid-Liquid Extraction Properties of Imidazolium-Based Ionic Liquids for the Extraction of Aromatics from Aliphatics. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 3376-3385	6.1	0
149	Removal of Trace Aluminum Impurity for High-Purity GdCl ₃ Preparation using an Amine-Group-Functionalized Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11241-11250	4.0	3
148	Dynamic process simulation and optimization of CO ₂ removal from confined space with pressure and temperature swing adsorption. <i>Chemical Engineering Journal</i> , 2021 , 416, 129104	14.7	2
147	Ionic liquidBased adsorbents in indoor pollutants removal. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 27, 100405	7.9	1

146	Process Simulation and Optimization of Ammonia-Containing Gas Separation and Ammonia Recovery with Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 312-325	8.3	3
145	Experimental and thermodynamic analysis of NH ₃ absorption in dual-functionalized pyridinium-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 323, 114601	6	2
144	A multi-task deep learning neural network for predicting flammability-related properties from molecular structures. <i>Green Chemistry</i> , 2021 , 23, 4451-4465	10	1
143	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	10	19
142	CO ₂ Conversion to Value-Added Gas-Phase Products: Technology Overview and Catalysts Selection 2021 , 175-203		1
141	Ionic liquid screening for dichloromethane absorption by multi-scale simulations. <i>Separation and Purification Technology</i> , 2021 , 275, 119187	8.3	3
140	Separation of NH ₃ /CO ₂ from melamine tail gas with ionic liquid: Process evaluation and thermodynamic properties modelling. <i>Separation and Purification Technology</i> , 2021 , 274, 119007	8.3	7
139	Degradation of bisphenol A through TiBiOI/ZIF-8/peroxymonosulfate (PMS): Catalyst preparation, experimental design and catalytic mechanism. <i>Journal of Solid State Chemistry</i> , 2021 , 304, 122596	3.3	1
138	Carbon hollow fiber membranes for a molecular sieve with precise-cutoff ultramicropores for superior hydrogen separation. <i>Nature Communications</i> , 2021 , 12, 268	17.4	42
137	Constructing single Cu ^{III} sites for CO ₂ electrochemical reduction over a wide potential range. <i>Green Chemistry</i> , 2021 , 23, 5461-5466	10	5
136	Amination strategy to boost the CO ₂ electroreduction current density of Mn/C single-atom catalysts to the industrial application level. <i>Energy and Environmental Science</i> , 2021 , 14, 2349-2356	35.4	40
135	Protic ionic liquid-based deep eutectic solvents with multiple hydrogen bonding sites for efficient absorption of NH ₃ . <i>AIChE Journal</i> , 2020 , 66, e16253	3.6	20
134	Ionic liquid assisted fabrication of cellulose-based conductive films for Li-ion battery. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49430	2.9	4
133	A mass and energy balance stage model for cyclic distillation. <i>AIChE Journal</i> , 2020 , 66, e16259	3.6	5
132	Ionic liquid-based green processes for ammonia separation and recovery. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020 , 25, 100354	7.9	11
131	A novel unambiguous strategy of molecular feature extraction in machine learning assisted predictive models for environmental properties. <i>Green Chemistry</i> , 2020 , 22, 3867-3876	10	16
130	Biodegradable functional chitosan membrane for enhancement of artemisinin purification. <i>Carbohydrate Polymers</i> , 2020 , 246, 116590	10.3	4
129	NH ₃ absorption performance and reversible absorption mechanisms of protic ionic liquids with six-membered N-heterocyclic cations. <i>Separation and Purification Technology</i> , 2020 , 248, 117087	8.3	13

128	Modified polyether glycols supported ionic liquids for CO ₂ adsorption and chemical fixation. <i>Molecular Catalysis</i> , 2020 , 492, 111008	3.3	5
127	Pattern Matching and Active Simulation Method for Process Fault Diagnosis. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12525-12535	3.9	2
126	Screening Deep Eutectic Solvents for CO Capture With COSMO-RS. <i>Frontiers in Chemistry</i> , 2020 , 8, 82	5	13
125	Dual-functionalized protic ionic liquids for efficient absorption of NH ₃ through synergistically physicochemical interaction. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 1815-1824	3.5	13
124	Superbase Ionic Liquid-Based Deep Eutectic Solvents for Improving CO ₂ Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2523-2530	8.3	49
123	Engineering Electronic Structure of Stannous Sulfide by Amino-Functionalized Carbon: Toward Efficient Electrocatalytic Reduction of CO ₂ to Formate. <i>Advanced Energy Materials</i> , 2020 , 10, 1903664	21.8	52
122	Highly efficient and reversible absorption of NH ₃ by dual functionalised ionic liquids with protic and Lewis acidic sites. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113411	6	11
121	Efficient and Reversible Chemisorption of Carbon Dioxide with Dianionic-Functionalized Ionic Liquid-Based Solvents. <i>Energy & Fuels</i> , 2020 , 34, 8526-8533	4.1	5
120	Structure optimization of tailored ionic liquids and process simulation for shale gas separation. <i>AIChE Journal</i> , 2020 , 66, e16794	3.6	19
119	Combining Ionic Liquids and Sodium Salts into Metal-Organic Framework for High-Performance Ionic Conduction. <i>ChemElectroChem</i> , 2020 , 7, 183-190	4.3	8
118	Computational Identification of a New Adsorption Site of CO ₂ on the Ag (211) Surface. <i>ChemistrySelect</i> , 2020 , 5, 11503-11509	1.8	0
117	Profitability analysis of a novel configuration to synergize biogas upgrading and Power-to-Gas. <i>Energy Conversion and Management</i> , 2020 , 224, 113369	10.6	21
116	Aromatic Ester-Functionalized Ionic Liquid for Highly Efficient CO Electrochemical Reduction to Oxalic Acid. <i>ChemSusChem</i> , 2020 , 13, 4900-4905	8.3	13
115	Supported ionic liquids for air purification. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020 , 25, 100391	7.9	9
114	Boosting CO ₂ electroreduction by iodine-treated porous nitrogen-doped carbon. <i>Chemical Engineering Science: X</i> , 2020 , 8, 100084	1.1	2
113	Highly Efficient Dehydration of Ethyl Acetate using Strong Hydrophilic Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 16751-16761	3.9	3
112	A Mn-N single-atom catalyst embedded in graphitic carbon nitride for efficient CO electroreduction. <i>Nature Communications</i> , 2020 , 11, 4341	17.4	96
111	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	3.9	3

110	Morphology Modulation-Engineered Flowerlike In ₂ S ₃ via Ionothermal Method for Efficient CO ₂ Electroreduction. <i>ChemCatChem</i> , 2020 , 12, 926-931	5.2	19
109	Fabrication of Multilayered Molecularly Imprinted Membrane for Selective Recognition and Separation of Artemisinin. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3127-3137	8.3	31
108	Highly Selective Oxygen/Nitrogen Separation Membrane Engineered Using a Porphyrin-Based Oxygen Carrier. <i>Membranes</i> , 2019 , 9,	3.8	10
107	Intentional construction of high-performance SnO catalysts with a 3D porous structure for electrochemical reduction of CO. <i>Nanoscale</i> , 2019 , 11, 18715-18722	7.7	15
106	Ultralow Thermal Resistance across the Solid-Ionic Liquid Interface Caused by the Charge-Induced Ordered Ionic Layer. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 20109-20115	3.9	15
105	Efficient transformation of CO ₂ to cyclic carbonates using bifunctional protic ionic liquids under mild conditions. <i>Green Chemistry</i> , 2019 , 21, 3456-3463	10	55
104	Protic Ionic-Liquid-Supported Activated Carbon with Hierarchical Pores for Efficient NH ₃ Adsorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11769-11777	8.3	25
103	Cascade utilization of lignocellulosic biomass to high-value products. <i>Green Chemistry</i> , 2019 , 21, 3499-3535	13	139
102	Metal Ionic Liquids Produce Metal-Dispersed Carbon-Nitrogen Networks for Efficient CO ₂ Electroreduction. <i>ChemCatChem</i> , 2019 , 11, 3166-3170	5.2	3
101	Role of ionic liquids in the efficient transfer of lithium by Cyanex 923 in solvent extraction system. <i>AIChE Journal</i> , 2019 , 65, e16606	3.6	14
100	Efficient adsorption of ammonia by incorporation of metal ionic liquids into silica gels as mesoporous composites. <i>Chemical Engineering Journal</i> , 2019 , 370, 81-88	14.7	21
99	An ionic fragments contribution-COSMO method to predict the surface charge density profiles of ionic liquids. <i>Journal of Molecular Liquids</i> , 2019 , 282, 292-302	6	8
98	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 ¹	3.9	36
97	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	8.3	23
96	Novel drag coefficient models of ionic liquid spherical particle system. <i>Chemical Engineering Science</i> , 2019 , 204, 177-185	4.4	5
95	Green chemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019 , 35, 995-1077	5	1
94	Predictive deep learning models for environmental properties: the direct calculation of octanol-water partition coefficients from molecular graphs. <i>Green Chemistry</i> , 2019 , 21, 4555-4565	10	39
93	Studies on the physical properties variations of protic ionic liquid during NH ₃ absorption. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111791	6	10

92	Enhanced CO ₂ capture by binary systems of pyridinium-based ionic liquids and porous ZIF-8 particles. <i>Journal of Chemical Thermodynamics</i> , 2019 , 128, 415-423	2.9	19
91	Insight into the Performance of Acid Gas in Ionic Liquids by Molecular Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1443-1453	3.9	16
90	Metal chloride anion-based ionic liquids for efficient separation of NH ₃ . <i>Journal of Cleaner Production</i> , 2019 , 206, 661-669	10.3	46
89	A new FCCS-CFD coupled method for understanding the influence of molecular structure of ionic liquid on bubble behaviors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 125, 266-274	2.7	4
88	Prediction of Henry's law constant of CO ₂ in ionic liquids based on SEP and SEprofile molecular descriptors. <i>Journal of Molecular Liquids</i> , 2018 , 262, 139-147	6	17
87	Multi-objective optimization of methane production system from biomass through anaerobic digestion. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 2084-2092	3.2	5
86	Photothermal CO ₂ Hydrogenation: Alumina-Supported CoFe Alloy Catalysts Derived from Layered-Double-Hydroxide Nanosheets for Efficient Photothermal CO ₂ Hydrogenation to Hydrocarbons (Adv. Mater. 3/2018). <i>Advanced Materials</i> , 2018 , 30, 1870015	24	2
85	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	10	71
84	Enhanced NH ₃ capture by imidazolium-based protic ionic liquids with different anions and cation substituents. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1228-1236	3.5	53
83	CO ₂ Electroreduction in Ionic Liquids: A Review. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 961-970	4.9	51
82	Insights into Carbon Dioxide Electroreduction in Ionic Liquids: Carbon Dioxide Activation and Selectivity Tailored by Ionic Microhabitat. <i>ChemSusChem</i> , 2018 , 11, 3191-3197	8.3	23
81	Alumina-Supported CoFe Alloy Catalysts Derived from Layered-Double-Hydroxide Nanosheets for Efficient Photothermal CO Hydrogenation to Hydrocarbons. <i>Advanced Materials</i> , 2018 , 30, 1704663	24	208
80	Functionalized ionic liquid membranes for CO separation. <i>Chemical Communications</i> , 2018 , 54, 12671-12685	6.85	51
79	Spinning Cellulose Hollow Fibers Using 1-Ethyl-3-methylimidazolium Acetate/Dimethylsulfoxide Co-Solvent. <i>Polymers</i> , 2018 , 10,	4.5	12
78	Emission characteristics of a pyrolysis-combustion system for the co-production of biochar and bioenergy from agricultural wastes. <i>Waste Management</i> , 2018 , 77, 59-66	8.6	18
77	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	3.9	6
76	DBN-based ionic liquids with high capability for the dissolution of wool keratin. <i>RSC Advances</i> , 2017 , 7, 1981-1988	3.7	42
75	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	8.3	34

74	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	3.7	61
73	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	8.3	51
72	Process Analysis for the Production of Hydrogen and Liquid Fuels from Oil Shale. <i>Energy Technology</i> , 2017 , 5, 1963-1978	3.5	3
71	Recovery of methacrylic acid from dilute aqueous solutions by ionic liquids through hydrogen bonding interaction. <i>Separation and Purification Technology</i> , 2017 , 184, 354-364	8.3	17
70	Multiscale Studies on Ionic Liquids. <i>Chemical Reviews</i> , 2017 , 117, 6636-6695	68.1	410
69	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	38
68	A self-stabilized suspension catholyte to enable long-term stable LiB flow batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12904-12913	13	17
67	Practices for modeling oil shale pyrolysis and kinetics. <i>Reviews in Chemical Engineering</i> , 2017 , 34, 21-42	5	5
66	Ionic liquids for absorption and separation of gases: An extensive database and a systematic screening method. <i>AIChE Journal</i> , 2017 , 63, 1353-1367	3.6	62
65	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	10	104
64	Polycyclic aromatic hydrocarbons on particulate matter emitted during the co-generation of bioenergy and biochar from rice husk. <i>Bioresour Technol</i> , 2017 , 244, 1015-1023	11	16
63	CO ₂ absorption with ionic liquids at elevated temperatures. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1001-1006	11	12
62	Ionic-Liquid-Based CO Capture Systems: Structure, Interaction and Process. <i>Chemical Reviews</i> , 2017 , 117, 9625-9673	68.1	469
61	Combination of ionic liquids with membrane technology: A new approach for CO ₂ separation. <i>Journal of Membrane Science</i> , 2016 , 497, 1-20	9.6	353
60	Predicting H ₂ S solubility in ionic liquids by the quantitative structure-property relationship method using S _{profile} molecular descriptors. <i>RSC Advances</i> , 2016 , 6, 70405-70413	3.7	34
59	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	2.8	29
58	Electrodeposition in Ionic Liquids. <i>ChemPhysChem</i> , 2016 , 17, 335-51	3.2	88
57	Analysis of dual fluidized bed gasification integrated system with liquid fuel and electricity products. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11062-11071	6.7	10

56	Ionic liquids and supercritical carbon dioxide: green and alternative reaction media for chemical processes. <i>Reviews in Chemical Engineering</i> , 2016 , 32,	5	17
55	Ether-functionalized ionic liquid based composite membranes for carbon dioxide separation. <i>RSC Advances</i> , 2016 , 6, 45184-45192	3-7	41
54	Synergistic Effects of Cosolvents on the Dissolution of Wool Keratin Using Ionic Liquids. <i>Chemical Engineering and Technology</i> , 2016 , 39, 979-986	2	14
53	Pebax/TSIL blend thin film composite membranes for CO ₂ separation. <i>Science China Chemistry</i> , 2016 , 59, 538-546	7-9	38
52	Biomethane production system: Energetic analysis of various scenarios. <i>Bioresource Technology</i> , 2016 , 206, 155-163	11	26
51	Ionic Liquid Design and Process Simulation for Decarbonization of Shale Gas. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5931-5944	3-9	75
50	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	11	44
49	Extractive desulfurization of fuel using N-butylpyridinium-based ionic liquids. <i>RSC Advances</i> , 2015 , 5, 30234-30238	3-7	49
48	Assessment of the energy consumption of the biogas upgrading process with pressure swing adsorption using novel adsorbents. <i>Journal of Cleaner Production</i> , 2015 , 101, 251-261	10-3	61
47	Highly Efficient Dissolution of Wool Keratin by Dimethylphosphate Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2925-2932	8-3	46
46	Imidazole tailored deep eutectic solvents for CO ₂ capture enhanced by hydrogen bonds. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27306-16	3-6	83
45	Numerical simulations of bubble behavior and mass transfer in CO ₂ capture system with ionic liquids. <i>Chemical Engineering Science</i> , 2015 , 135, 76-88	4-4	23
44	A quantitative prediction of the viscosity of ionic liquids using S(E)profile molecular descriptors. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3761-7	3-6	60
43	Absorption degree analysis on biogas separation with ionic liquid systems. <i>Bioresource Technology</i> , 2015 , 175, 135-41	11	15
42	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	3-5	12
41	Numerical simulation of CO ₂ -ionic liquid flow in a stirred tank. <i>Science China Chemistry</i> , 2015 , 58, 1918-1923	3-8	7
40	Efficient absorption of ammonia with hydroxyl-functionalized ionic liquids. <i>RSC Advances</i> , 2015 , 5, 81362-81370	3-7	1370-6
39	Improving SO ₂ capture by tuning functional groups on the cation of pyridinium-based ionic liquids. <i>RSC Advances</i> , 2015 , 5, 2470-2478	3-7	59

38	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	3.9	39
37	Utilizing ionic liquids as additives for oil property modulation. <i>RSC Advances</i> , 2014 , 4, 6463	3.7	10
36	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	20
35	Thermodynamic Modeling and Assessment of Ionic Liquid-Based CO ₂ Capture Processes. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11805-11817	3.9	83
34	Toxicity of ionic liquids: database and prediction via quantitative structure-activity relationship method. <i>Journal of Hazardous Materials</i> , 2014 , 278, 320-9	12.8	117
33	Efficient and reversible capture of SO ₂ by pyridinium-based ionic liquids. <i>Chemical Engineering Journal</i> , 2014 , 251, 248-256	14.7	132
32	Simultaneous desulfurization and denitrogen of liquid fuels using two functionalized group ionic liquids. <i>Science China Chemistry</i> , 2014 , 57, 1766-1773	7.9	20
31	Gas-liquid mass-transfer properties in CO ₂ absorption system with ionic liquids. <i>AIChE Journal</i> , 2014 , 60, 2929-2939	3.6	41
30	Post-combustion Carbon Capture with a Gas Separation Membrane: Parametric Study, Capture Cost, and Exergy Analysis. <i>Energy & Fuels</i> , 2013 , 27, 4137-4149	4.1	60
29	A Novel Dual Amino-Functionalized Cation-Tethered Ionic Liquid for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5835-5841	3.9	120
28	1-Allyl-3-methylimidazolium halometallate ionic liquids as efficient catalysts for the glycolysis of poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2013 , 129, 3574-3581	2.9	32
27	A new fragment contribution-corresponding states method for physicochemical properties prediction of ionic liquids. <i>AIChE Journal</i> , 2013 , 59, 1348-1359	3.6	73
26	Study on the recovery of ionic liquids from dilute effluent by electro dialysis method and the fouling of cation-exchange membrane. <i>Science China Chemistry</i> , 2013 , 56, 1811-1816	7.9	23
25	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	10	86
24	Carbon capture with ionic liquids: overview and progress. <i>Energy and Environmental Science</i> , 2012 , 5, 6668	35.4	635
23	Experimental study on gas holdup and bubble behavior in carbon capture systems with ionic liquid. <i>Chemical Engineering Journal</i> , 2012 , 209, 607-615	14.7	33
22	Application of Iron-Containing Magnetic Ionic Liquids in Extraction Process of Coal Direct Liquefaction Residues. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3776-3782	3.9	45
21	Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 875-881	2.8	55

20	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
19	Study on Extraction Asphaltenes from Direct Coal Liquefaction Residue with Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10278-10282	3.9	50
18	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	4.5	12
17	Rheological properties of cotton pulp cellulose dissolved in 1-butyl-3-methylimidazolium chloride solutions. <i>Polymer Engineering and Science</i> , 2011 , 51, 2381-2386	2.3	8
16	Green process for methacrolein separation with ionic liquids in the production of methyl methacrylate. <i>AIChE Journal</i> , 2011 , 57, 2388-2396	3.6	22
15	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	1.3	24
14	Efficient extraction of direct coal liquefaction residue with the [bmim]Cl/NMP mixed solvent. <i>RSC Advances</i> , 2011 , 1, 1579	3.7	29
13	Multi-scale simulation of the 1,3-butadiene extraction separation process with an ionic liquid additive. <i>Green Chemistry</i> , 2010 , 12, 1263	10	32
12	Solubilities of ammonia in basic imidazolium ionic liquids. <i>Fluid Phase Equilibria</i> , 2010 , 297, 34-39	2.5	86
11	A novel ionic liquids-based scrubbing process for efficient CO ₂ capture. <i>Science China Chemistry</i> , 2010 , 53, 1549-1553	7.9	25
10	Molecular dynamics simulation of desulfurization by ionic liquids. <i>AIChE Journal</i> , 2010 , 56, 2983-2996	3.6	42
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