

Congmin Wang

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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.

75
papers

4,764
citations

38
h-index

68
g-index

75
ext. papers

5,262
ext. citations

6.9
avg, IF

5.53
L-index

#	Paper	IF	Citations
75	Tuning the basicity of ionic liquids for equimolar CO ₂ capture. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4918-22	16.4	517
74	Carbon dioxide capture by superbase-derived protic ionic liquids. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5978-81	16.4	383
73	Highly efficient and reversible SO ₂ capture by tunable azole-based ionic liquids through multiple-site chemical absorption. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11916-9	16.4	306
72	Significant improvements in CO ₂ capture by pyridine-containing anion-functionalized ionic liquids through multiple-site cooperative interactions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7053-7	16.4	224
71	Equimolar CO ₂ capture by imidazolium-based ionic liquids and superbase systems. <i>Green Chemistry</i> , 2010 , 12, 2019	10	190
70	Tuning the physicochemical properties of diverse phenolic ionic liquids for equimolar CO ₂ capture by the substituent on the anion. <i>Chemistry - A European Journal</i> , 2012 , 18, 2153-60	4.8	174
69	Reversible and robust CO ₂ capture by equimolar task-specific ionic liquid/superbase mixtures. <i>Green Chemistry</i> , 2010 , 12, 870	10	172
68	Highly efficient SO ₂ capture by dual functionalized ionic liquids through a combination of chemical and physical absorption. <i>Chemical Communications</i> , 2012 , 48, 2633-5	5.8	153
67	Novel quaternary ammonium ionic liquids and their use as dual solvent-catalysts in the hydrolytic reaction. <i>Green Chemistry</i> , 2006 , 8, 96-99	10	151
66	Tuning anion-functionalized ionic liquids for improved SO ₂ capture. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10620-4	16.4	134
65	Preparation of simple ammonium ionic liquids and their application in the cracking of dialkoxypropanes. <i>Green Chemistry</i> , 2006 , 8, 603	10	116
64	Carbon Dioxide Capture by Superbase-Derived Protic Ionic Liquids. <i>Angewandte Chemie</i> , 2010 , 122, 6114-6	16.4	112
63	Highly efficient SO ₂ capture through tuning the interaction between anion-functionalized ionic liquids and SO ₂ . <i>Chemical Communications</i> , 2013 , 49, 1166-8	5.8	109
62	The strategies for improving carbon dioxide chemisorption by functionalized ionic liquids. <i>RSC Advances</i> , 2013 , 3, 15518	3.7	108
61	Ionic liquids with metal chelate anions. <i>Chemical Communications</i> , 2012 , 48, 2334-6	5.8	107
60	Visible-Light-Induced Metal-Free Allylic Oxidation Utilizing a Coupled Photocatalytic System of g-C ₃ N ₄ and N-Hydroxy Compounds. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 1447-1451	5.6	101
59	Tuning the Basicity of Ionic Liquids for Equimolar CO ₂ Capture. <i>Angewandte Chemie</i> , 2011 , 123, 5020-5024	16.4	99

58	Designing of anion-functionalized ionic liquids for efficient capture of SO ₂ from flue gas. <i>AICHE Journal</i> , 2015 , 61, 2028-2034	3.6	91
57	Efficient absorption of ammonia with hydroxyl-functionalized ionic liquids. <i>RSC Advances</i> , 2015 , 5, 81362-81370	3.8	86
56	Highly efficient CO ₂ capture by tunable alkanolamine-based ionic liquids with multidentate cation coordination. <i>Chemical Communications</i> , 2012 , 48, 6526-8	5.8	86
55	Highly efficient SO ₂ capture by phenyl-containing azole-based ionic liquids through multiple-site interactions. <i>Green Chemistry</i> , 2014 , 16, 1211-1216	10	81
54	Density, Viscosity, and Refractive Index Properties for the Binary Mixtures of n-Butylammonium Acetate Ionic Liquid + Alkanols at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 298-308	2.8	63
53	Direct UV-spectroscopic measurement of selected ionic-liquid vapors. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7246-50	3.6	62
52	Highly Efficient Nitric Oxide Capture by Azole-Based Ionic Liquids through Multiple-Site Absorption. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14364-14368	16.4	61
51	Solvent-free synthesis of unsaturated ketones by the Saucy-Marbet reaction using simple ammonium ionic liquid as a catalyst. <i>Green Chemistry</i> , 2009 , 11, 843	10	59
50	Efficient and Energy-Saving CO ₂ Capture through the Entropic Effect Induced by the Intermolecular Hydrogen Bonding in Anion-Functionalized Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 381-6	6.4	58
49	Tuning the basicity of ionic liquids for efficient synthesis of alkylidene carbonates from CO ₂ at atmospheric pressure. <i>Chemical Communications</i> , 2016 , 52, 7830-3	5.8	58
48	Decreasing the Viscosity in CO ₂ Capture by Amino-Functionalized Ionic Liquids through the Formation of Intramolecular Hydrogen Bond. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 2807-13	3.4	56
47	Highly efficient CO ₂ capture by carbonyl-containing ionic liquids through Lewis acid-base and cooperative C-H...O hydrogen bonding interaction strengthened by the anion. <i>Chemical Communications</i> , 2014 , 50, 15041-4	5.8	56
46	Computer-Assisted Design of Ionic Liquids for Efficient Synthesis of 3(2H)-Furanones: A Domino Reaction Triggered by CO. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14198-14201	16.4	52
45	Tuning the basicity of cyano-containing ionic liquids to improve SO ₂ capture through cyano-sulfur interactions. <i>Chemistry - A European Journal</i> , 2015 , 21, 5632-9	4.8	48
44	Significant Improvements in CO ₂ Capture by Pyridine-Containing Anion-Functionalized Ionic Liquids through Multiple-Site Cooperative Interactions. <i>Angewandte Chemie</i> , 2014 , 126, 7173-7177	3.6	46
43	Designing an anion-functionalized fluorescent ionic liquid as an efficient and reversible turn-off sensor for detecting SO. <i>Chemical Communications</i> , 2017 , 53, 3862-3865	5.8	45
42	Designing amino-based ionic liquids for improved carbon capture: One amine binds two CO ₂ . <i>AICHE Journal</i> , 2019 , 65, 230-238	3.6	43
41	Bipyridinium-Based Ionic Covalent Triazine Frameworks for CO, SO, and NO Capture. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8614-8621	9.5	40

40	Iron chloride supported on pyridine-modified mesoporous silica: an efficient and reusable catalyst for the allylic oxidation of olefins with molecular oxygen. <i>Green Chemistry</i> , 2008 , 10, 827	10	39
39	Highly Efficient and Reversible SO ₂ Capture by Surfactant-Derived Dual Functionalized Ionic Liquids with Metal Chelate Cations. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18568-18574	3.9	38
38	Tuning Anion-Functionalized Ionic Liquids for Improved SO ₂ Capture. <i>Angewandte Chemie</i> , 2013 , 125, 10814-10818	3.6	38
37	Highly Efficient Synthesis of Quinazoline-2,4(1H,3H)-diones from CO ₂ by Hydroxyl Functionalized Aprotic Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5760-5765	8.3	34
36	Preparation of dialkoxypropanes in simple ammonium ionic liquids. <i>Green Chemistry</i> , 2006 , 8, 1076	10	27
35	Enhanced CO uptake by intramolecular proton transfer reactions in amino-functionalized pyridine-based ILs. <i>Chemical Communications</i> , 2017 , 53, 5950-5953	5.8	26
34	Microscopic structures of ionic liquids 1-ethyl-3-methylimidazolium tetrafluoroborate in water probed by the relative chemical shift. <i>Science China Chemistry</i> , 2010 , 53, 1561-1565	7.9	24
33	Computer-Assisted Design of Imidazolate-Based Ionic Liquids for Improving Sulfur Dioxide Capture, Carbon Dioxide Capture, and Sulfur Dioxide/Carbon Dioxide Selectivity. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2863-2872	4.5	21
32	NMR and Excess Volumes Studies in DMF-Alcohol Mixtures. <i>Journal of Solution Chemistry</i> , 2002 , 31, 109-118	11.8	21
31	Acetylacetonemetal catalyst modified by pyridinium salt group applied to the NHPI-catalyzed oxidation of cholesteryl acetate. <i>Catalysis Science and Technology</i> , 2011 , 1, 1133	5.5	19
30	The capture and simultaneous fixation of CO ₂ in the simulation of fuel gas by bifunctionalized ionic liquids. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9175-9182	6.7	18
29	Reversible Construction of Ionic Networks Through Cooperative Hydrogen Bonds for Efficient Ammonia Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9888-9895	8.3	17
28	Reversible CO ₂ Capture by Conjugated Ionic Liquids through Dynamic Covalent Carbon-Oxygen Bonds. <i>ChemSusChem</i> , 2016 , 9, 2351-7	8.3	17
27	Highly Efficient CO ₂ Capture by Imidazolium Ionic Liquids through a Reduction in the Formation of the Carbene-CO ₂ Complex. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8066-8072	3.9	14
26	Prediction of Vapor-Liquid Equilibria of Alcohol-Hydrocarbon Systems by ¹ H NMR and Activity Coefficients at Infinite Dilution. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 408-415	3.9	14
25	Highly Efficient and Reversible Nitric Oxide Capture by Functionalized Ionic Liquids through Multiple-Site Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2990-2995	8.3	12
24	Design and tuning of ionic liquid-based HNO donor through intramolecular hydrogen bond for efficient inhibition of tumor growth. <i>Science Advances</i> , 2020 , 6,	14.3	11
23	Tuning the Capture of CO through Entropic Effect Induced by Reversible Trans-Cis Isomerization of Light-Responsive Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3346-3351	6.4	9

22	Design of Betaine Functional Catalyst for Efficient Copolymerization of Oxirane and CO ₂ . <i>Macromolecules</i> , 2018 , 51, 6057-6062	5.5	9
21	Unexpected oxidation of Bisphorone with molecular oxygen promoted by TEMPO. <i>RSC Advances</i> , 2014 , 4, 15590	3.7	9
20	Prediction of Vapor-Liquid Equilibria Data from C-H Band Shifts of Raman Spectra and Activity Coefficients at Infinite Dilution in Some Aqueous Systems. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 6883-6887	3.9	9
19	Efficient capture of CO ₂ from flue gas at high temperature by tunable polyamine-based hybrid ionic liquids. <i>AIChE Journal</i> , 2020 , 66, e16779	3.6	9
18	Design and prediction for highly efficient SO ₂ capture from flue gas by imidazolium ionic liquids. <i>Green Energy and Environment</i> , 2020 ,	5.7	9
17	Highly efficient synthesis of alkylidene cyclic carbonates from low concentration CO ₂ using hydroxyl and azolate dual functionalized ionic liquids. <i>Green Chemistry</i> , 2021 , 23, 592-596	10	8
16	Highly Efficient Nitric Oxide Capture by Azole-Based Ionic Liquids through Multiple-Site Absorption. <i>Angewandte Chemie</i> , 2016 , 128, 14576-14580	3.6	7
15	Anion-Functionalized Pillararenes for Efficient Sulfur Dioxide Capture: Significant Effect of the Anion and the Cavity. <i>Chemistry - A European Journal</i> , 2017 , 23, 14143-14148	4.8	7
14	Isothermal and Isobaric Vapor-Liquid Equilibria of the Ternary System of 2,2-Dimethoxypropane + Acetone + Methanol. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1837-1840	2.8	6
13	Vapor-Liquid Equilibria for the Binary Mixture α -Pinene + Octane. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 1120-1121	2.8	6
12	Highly efficient and reversible CO ₂ capture by tunable anion-functionalized macro-porous resins. <i>AIChE Journal</i> , 2017 , 63, 3008-3015	3.6	5
11	Significantly Enhanced Carbon Dioxide Capture by Anion-Functionalized Liquid Pillar[5]arene through Multiple-Site Interactions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16894-16900	3.0	5
10	Ultrahigh Nitric Oxide Capture by Tetrakis(azolyl)borate Ionic Liquid through Multiple-Sites Uniform Interaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3357-3362	8.3	5
9	Electronic effect of ionic-pair substituents. <i>Journal of Physical Organic Chemistry</i> , 2013 , 26, 460-466	2.1	4
8	Vapor-Liquid Equilibria for the Binary Mixtures Dehydrolinalool + 1-Propanol and Dehydrolinalool + 1-Butanol. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 1231-1234	2.8	4
7	A succinct strategy for construction of nanoporous ionic organic networks from a pyrylium intermediate. <i>Chemical Communications</i> , 2019 , 55, 13450-13453	5.8	4
6	A succinct enhanced luminescence strategy for fluorescent ionic liquids and the application for detecting CO ₂ . <i>Green Energy and Environment</i> , 2021 ,	5.7	4
5	Superhigh and reversible NH ₃ uptake of cobaltous thiocyanate functionalized porous poly ionic liquids through competitive and cooperative interactions. <i>Chemical Engineering Journal</i> , 2022 , 427, 131638	14.7	3

4	Ionic Liquids for Chemisorption of CO ₂ 2020 , 297-315		2
3	Tuning the Basicity for Highly Efficient and Reversible Hydrogen Chloride Absorption to Develop a Green Acid Scavenger. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	1
2	Highly Efficient and Reversible Absorption and Oxidation of Low-Concentration Nitric Oxide by Functionalized Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7154-7159	8.3	1
1	Role of Structure in the Ammonia Uptake of Porous Polyionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 4094-4104	8.3	1