

# Ionic-Liquid-Based CO<sub>2</sub> Capture Systems:

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The solubility of gases in ionic liquids. <i>AIChE Journal</i> , 2017, 63, 4722-4737.	1.8	64
2	Introduction: Carbon Capture and Separation. <i>Chemical Reviews</i> , 2017, 117, 9521-9523.	23.0	157
3	Transition Metal-Containing Ionic Liquid Crystals with 1-Decyl-2,3-dimethylimidazolium: Facile Syntheses, Crystal Structures, Thermal Properties and NH <sub>3</sub> Detection. <i>ChemistrySelect</i> , 2018, 3, 3731-3736.	0.7	6
4	Unique orientations and rotational dynamics of a 1-butyl-3-methyl-imidazolium hexafluorophosphate ionic liquid at the gas-liquid interface: the effects of the hydrogen bond and hydrophobic interactions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12043-12052.	1.3	13
5	Design and synthesis of a multifunctional porous N-rich polymer containing 1,3,5-triazine and Tröger's base for CO <sub>2</sub> adsorption, catalysis and sensing. <i>Polymer Chemistry</i> , 2018, 9, 2643-2649.	1.9	57
6	Prediction of Henry's law constant of CO <sub>2</sub> in ionic liquids based on SEP and S <sub>if</sub> -profile molecular descriptors. <i>Journal of Molecular Liquids</i> , 2018, 262, 139-147.	2.3	25
7	Mixing poly(ionic liquid)s and ionic liquids with different cyano anions: Membrane forming ability and CO <sub>2</sub> /N <sub>2</sub> separation properties. <i>Journal of Membrane Science</i> , 2018, 552, 341-348.	4.1	49
8	Ionic liquid syntheses via click chemistry: expeditious routes toward versatile functional materials. <i>Chemical Communications</i> , 2018, 54, 2944-2961.	2.2	52
9	Coordination of Carbon Dioxide to the Lewis Acid Site of a Zinc-Substituted Polyoxometalate and Formation of an Adduct Using a Polyoxometalate-2,4,6-trimethylpyridine Frustrated Lewis Pair. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 791-794.	1.0	11
10	High CO <sub>2</sub> absorption by diamino protic ionic liquids using azolide anions. <i>Chemical Communications</i> , 2018, 54, 2106-2109.	2.2	48
11	Molecular Modeling Analysis of CO <sub>2</sub> Absorption by Glymes. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1948-1957.	1.2	4
12	Influence of Water on Carbon Dioxide and Room Temperature Ionic Liquid Dynamics: Supported Ionic Liquid Membrane vs the Bulk Liquid. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2389-2395.	1.2	8
13	Efficient, Selective, and Reversible SO <sub>2</sub> Capture with Highly Crosslinked Ionic Microgels via a Selective Swelling Mechanism. <i>Advanced Functional Materials</i> , 2018, 28, 1704292.	7.8	51
14	Impact of Anions on the Partition Constant, Self-Diffusion, Thermal Stability, and Toxicity of Dicationic Ionic Liquids. <i>ACS Omega</i> , 2018, 3, 734-743.	1.6	14
15	Density, Viscosity, and CO <sub>2</sub> Solubility in the Ionic Liquid Mixtures of [bmim][PF <sub>6</sub> ] and [bmim][TfSA] at 313.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 1036-1043.	1.0	20
16	Aspects of solvent polarity and solvent properties in developing efficient systems for processing biomass with ionic liquid mixtures and supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , 2018, 134, 12-20.	1.6	15
17	Enterprise Ionic Liquids Database (ILUAM) for Use in Aspen ONE Programs Suite with COSMO-Based Property Methods. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 980-989.	1.8	71
18	Inedible saccharides: a platform for CO <sub>2</sub> capturing. <i>Chemical Science</i> , 2018, 9, 1088-1100.	3.7	39

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19	Acetylene absorption by ionic liquids: A multiscale analysis based on molecular and process simulation. <i>Separation and Purification Technology</i> , 2018, 204, 38-48.	3.9	22
20	Molecular dynamics simulations of polyethers and a quaternary ammonium ionic liquid as CO <sub>2</sub> absorbers. <i>Journal of Chemical Physics</i> , 2018, 148, 134908.	1.2	13
21	Ionic liquids: a brief history. <i>Biophysical Reviews</i> , 2018, 10, 691-706.	1.5	658
22	A theoretical study on mixtures of amino acid-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10213-10223.	1.3	11
23	Systems Analysis of Physical Absorption of CO <sub>2</sub> in Ionic Liquids for Pre-Combustion Carbon Capture. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4996-5004.	4.6	42
24	Innovative aspects of protein stability in ionic liquid mixtures. <i>Biophysical Reviews</i> , 2018, 10, 841-846.	1.5	35
25	Hypercrosslinked mesoporous poly(ionic liquid)s with high ionic density for efficient CO <sub>2</sub> capture and conversion into cyclic carbonates. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6660-6666.	5.2	116
26	Formation of CO <sub>2</sub> Hydrates within Single-Walled Carbon Nanotubes at Ambient Pressure: CO <sub>2</sub> Capture and Selective Separation of a CO <sub>2</sub> /H <sub>2</sub> Mixture in Water. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7951-7958.	1.5	21
27	Experimental Densities and Calculated Fractional Free Volumes of Ionic Liquids with Tri- and Tetra-substituted Imidazolium Cations. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 2522-2532.	1.0	5
28	Hybridization of metal-organic frameworks and task-specific ionic liquids: fundamentals and challenges. <i>Materials Chemistry Frontiers</i> , 2018, 2, 219-234.	3.2	72
29	Multi-functionalization of GO with multi-cationic ILs as high efficient metal-free catalyst for CO <sub>2</sub> cycloaddition under mild conditions. <i>Carbon</i> , 2018, 127, 245-254.	5.4	86
30	CO <sub>2</sub> /CH <sub>4</sub> and H <sub>2</sub> S/CO <sub>2</sub> Selectivity by Ionic Liquids in Natural Gas Sweetening. <i>Energy &amp; Fuels</i> , 2018, 32, 10-23.	2.5	58
31	Experiment and simulation study of CO <sub>2</sub> solubility in dimethyl carbonate, 1-octyl-3-methylimidazolium tetrafluoroborate and their mixtures. <i>Energy</i> , 2018, 143, 35-42.	4.5	19
32	Structural Elucidation of Covalent Organic Polymers (COP) and Their Linker Effect on Gas Adsorption Performance via Density Functional Theory Approach. <i>ChemistrySelect</i> , 2018, 3, 8294-8305.	0.7	6
33	The peculiar effect of water on ionic liquids and deep eutectic solvents. <i>Chemical Society Reviews</i> , 2018, 47, 8685-8720.	18.7	346
34	Functionalized ionic liquid membranes for CO <sub>2</sub> separation. <i>Chemical Communications</i> , 2018, 54, 12671-12685.	2.2	81
35	Study of Equilibrium Solubility, Heat of Absorption, and Speciation of CO <sub>2</sub> Absorption into Aqueous 2-Methylpiperazine (2MPZ) Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 17496-17503.	1.8	10
36	Understanding the Competitive Gas Absorption of CO <sub>2</sub> and SO <sub>2</sub> in Superbase Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 17033-17042.	1.8	22

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37	Basic ionic liquids promoted chemical transformation of CO <sub>2</sub> to organic carbonates. <i>Science China Chemistry</i> , 2018, 61, 1486-1493.	4.2	31
38	Enhancing CO <sub>2</sub> Adsorption and Separation Properties of Aluminophosphate Zeolites by Isomorphous Heteroatom Substitutions. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43570-43577.	4.0	30
39	Reply to the Correspondence on "Preorganization and Cooperation for Highly Efficient and Reversible Capture of Low-Concentration CO <sub>2</sub> by Ionic Liquids". <i>Angewandte Chemie</i> , 2018, 131, 392.	1.6	0
40	Mechanism and Kinetic Study of Carbon Dioxide Absorption into a Methyl-diethanolamine/1-Hydroxyethyl-3-methylimidazolium Lysine/Water System. <i>Energy &amp; Fuels</i> , 2018, 32, 10813-10821.	2.5	13
41	Molecular Origins of the Apparent Ideal CO <sub>2</sub> Solubilities in Binary Ionic Liquid Mixtures. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9763-9774.	1.2	16
42	Comparison of ionic liquid and salt effects on the thermodynamics of amphiphile micellization in water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 559, 159-168.	2.3	25
43	Ionic Liquid/Quaternary Ammonium Salt Integrated Heterogeneous Catalytic System for the Efficient Coupling of Carbon Dioxide with Epoxides. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, , .	1.8	7
44	Tuning ionic liquids with imide-based anions for highly efficient CO <sub>2</sub> capture through enhanced cooperations. <i>Journal of CO<sub>2</sub> Utilization</i> , 2018, 28, 299-305.	3.3	43
45	Ionic Liquid-Based Membranes for CO <sub>2</sub> Separation. , 2018, , 235-260.		6
46	Recent Developments on Supported Hydrogen-Bond Organocatalysts. <i>ChemCatChem</i> , 2018, 10, 5554-5572.	1.8	24
47	Carboxylate Ionic Liquids with Large Free Volume and Strong Hydrogen Bonding Basicity for Efficient Separation of Butadiene and <i>n</i> -Butene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 13519-13527.	1.8	14
48	Intermolecular interactions upon carbon dioxide capture in deep-eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24591-24601.	1.3	62
49	Is the formation of N-heterocyclic carbenes (NHCs) a feasible mechanism for the distillation of imidazolium ionic liquids?. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24716-24725.	1.3	4
50	The confined [Bmim][BF <sub>4</sub> ] ionic liquid flow through graphene oxide nanochannels: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17773-17780.	1.3	40
51	NHCs in Main Group Chemistry. <i>Chemical Reviews</i> , 2018, 118, 9678-9842.	23.0	563
52	CO <sub>2</sub> Electroreduction in Ionic Liquids: A Review. <i>Chinese Journal of Chemistry</i> , 2018, 36, 961-970.	2.6	77
53	Computer-Aided Design of Ionic Liquids as Absorbent for Gas Separation Exemplified by CO <sub>2</sub> Capture Cases. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12025-12035.	3.2	68
54	Low-viscous diamino protic ionic liquids with fluorine-substituted phenolic anions for improving CO <sub>2</sub> reversible capture. <i>Journal of Molecular Liquids</i> , 2018, 268, 617-624.	2.3	29

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55	Synthesis of various gold hierarchical architectures assisted by functionalized ionic liquids in aqueous solutions and their efficient SERS responses. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 194-203.	5.0	16
56	Insights into Carbon Dioxide Electroreduction in Ionic Liquids: Carbon Dioxide Activation and Selectivity Tailored by Ionic Microhabitat. <i>ChemSusChem</i> , 2018, 11, 3191-3197.	3.6	50
57	Exploiting the hydrophilic role of natural deep eutectic solvents for greening CO <sub>2</sub> capture. <i>Journal of Cleaner Production</i> , 2018, 193, 802-810.	4.6	91
58	From kinetics to equilibrium control in CO <sub>2</sub> capture columns using Encapsulated Ionic Liquids (ENILs). <i>Chemical Engineering Journal</i> , 2018, 348, 661-668.	6.6	46
59	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. <i>Chemical Reviews</i> , 2018, 118, 8655-8769.	23.0	239
60	Solvents for Carbon Dioxide Capture. , 0, , .		31
61	Enhanced solubility of carbon dioxide for encapsulated ionic liquids in polymeric materials. <i>Chemical Engineering Journal</i> , 2018, 354, 753-757.	6.6	26
62	Continuous Conversion of Carbon Dioxide to Propylene Carbonate with Supported Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13131-13139.	3.2	46
63	Structure-Property Relationship in Energetic Cationic Metal-Organic Frameworks: New Insight for Design of Advanced Energetic Materials. <i>Crystal Growth and Design</i> , 2018, 18, 5896-5903.	1.4	30
64	Molecular Insights into Benzimidazole-Linked Polymer Interactions with Carbon Dioxide and Nitrogen. <i>ChemistrySelect</i> , 2018, 3, 3691-3701.	0.7	10
65	Role of solvents in CO <sub>2</sub> capture processes: The review of selection and design methods. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109299.	8.2	201
66	Improving ionic liquid tolerance in <i>Saccharomyces cerevisiae</i> through heterologous expression and directed evolution of an <i>ILT1</i> homolog from <i>Yarrowia lipolytica</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 1715-1724.	1.4	17
67	Toward Electrochemical Studies on the Nanometer and Atomic Scales: Progress, Challenges, and Opportunities. <i>ACS Nano</i> , 2019, 13, 9735-9780.	7.3	32
68	Fatty acids-derived protic ionic liquids as lubricant additive to synthetic lube base oil for enhancement of tribological properties. <i>Journal of Molecular Liquids</i> , 2019, 293, 111444.	2.3	49
69	Metal-organic framework based carbon capture and purification technologies for clean environment. , 2019, , 5-61.		21
70	Is it Always Chemical When Amino Groups Come Across CO <sub>2</sub> ? Anion-Anion-Interaction-Induced Inhibition of Chemical Adsorption. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6536-6542.	1.2	17
71	Cyanoborates. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3539-3560.	1.0	32
72	Environmental sustainability of cellulose-supported solid ionic liquids for CO <sub>2</sub> capture. <i>Green Chemistry</i> , 2019, 21, 4100-4114.	4.6	19

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73	IL-induced formation of dynamic complex iodide anions in IL@MOF composites for efficient iodine capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18324-18329.	5.2	91
74	Ionic liquids from a fragmented perspective. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16878-16888.	1.3	10
75	In Situ Electrosynthesis of Peroxydicarbonate Anion in Ionic Liquid Media Using Carbon Dioxide/Superoxide System. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25928-25939.	4.0	12
76	Study on Short-Circuit Impedance Characteristics in DN Traction Electric Lines. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 310, 032053.	0.2	0
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78	Temperature field modeling of the plate during hot rolling based on inverse heat conduction problem. <i>Journal of Physics: Conference Series</i> , 2019, 1300, 012017.	0.3	0
79	Low Voltage Power Line Communication Routing Method based on Improved Genetic Algorithm. , 2019, , .		0
80	Pressure Oxidation Dissolution of Antimony Trioxide in KOH Solution for Preparing Sodium Pyroantimonate. <i>Jom</i> , 2019, 71, 4631-4638.	0.9	4
81	Efficient Li-CO <sub>2</sub> Batteries with Molybdenum Disulfide Nanosheets on Carbon Nanotubes as a Catalyst. <i>ACS Applied Energy Materials</i> , 2019, 2, 8685-8694.	2.5	40
82	Sensitivity analysis of ship traffic in restricted two-way waterways considering the impact of LNG carriers. <i>Ocean Engineering</i> , 2019, 192, 106556.	1.9	9
83	Phosphonium-Based Ionic Liquids Used as Reagents or Catalysts. <i>ChemistrySelect</i> , 2019, 4, 9285-9299.	0.7	28
84	Insights on [BMIM][BF <sub>4</sub> ] and [BMIM][PF <sub>6</sub> ] ionic liquids and their binary mixtures with acetone and acetonitrile. <i>Journal of Molecular Liquids</i> , 2019, 294, 111632.	2.3	13
85	Efficient thiazole-based polyimines as selective and reversible chemical absorbents for CO <sub>2</sub> capture and separation: Synthesis, characterization and application. <i>Polymer</i> , 2019, 182, 121840.	1.8	5
86	Effect of cluster of protic pyrazolium ionic liquids or epoxides on the cycloaddition of CO <sub>2</sub> . <i>Journal of Molecular Liquids</i> , 2019, 295, 111652.	2.3	4
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89	Recent advances of CO <sub>2</sub> -responsive materials in separations. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 30, 79-99.	3.3	64
90	Ionic liquids for active photonics components fabrication. <i>Optical Materials</i> , 2019, 89, 106-111.	1.7	9

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92	Molecular Insights into the Regulatable Interfacial Property and Flow Behavior of Confined Ionic Liquids in Graphene Nanochannels. <i>Small</i> , 2019, 15, e1804508.	5.2	44
93	Efficient CO <sub>2</sub> absorption by azolide-based deep eutectic solvents. <i>Chemical Communications</i> , 2019, 55, 1426-1429.	2.2	95
94	Supported Ionic Liquid Membranes with Dual-Site Interaction Mechanism for Efficient Separation of CO <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10792-10799.	3.2	54
95	Understanding of structures, dynamics, and hydrogen bonds of imidazolium-based ionic liquid mixture from molecular dynamics simulation. <i>Chemical Physics</i> , 2019, 525, 110391.	0.9	10
96	Simulation study of biomethane liquefaction followed by biogas upgrading using an imidazolium-based cationic ionic liquid. <i>Journal of Cleaner Production</i> , 2019, 231, 953-962.	4.6	30
97	Rapid desorption of CO <sub>2</sub> from deep eutectic solvents based on polyamines at lower temperatures: an alternative technology with industrial potential. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2125-2134.	2.5	21
98	Laminated mica nanosheets supported ionic liquid membrane for CO <sub>2</sub> separation. <i>Nanotechnology</i> , 2019, 30, 385705.	1.3	25
99	Synthesis of new ionic liquids based on dicationic imidazolium and their anti-corrosion performances. <i>Journal of Molecular Liquids</i> , 2019, 290, 111230.	2.3	70
100	Selectively tuning gas transport through ionic liquid filled graphene oxide nanoslits using an electric field. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15062-15067.	5.2	48
101	Convenient design of porous and heteroatom self-doped carbons for CO <sub>2</sub> capture. <i>Microporous and Mesoporous Materials</i> , 2019, 287, 1-8.	2.2	45
103	Study on the desulfurization performance of metal-based low transition temperature mixtures: Removal of hydrogen sulfide and sulfur recovery. <i>Fuel Processing Technology</i> , 2019, 193, 372-377.	3.7	17
104	High-Capacity Amine-Imidazole Solvent Blends for CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10533-10539.	1.8	8
105	Heating load depreciation in the solvent-regeneration step of absorption-based acid gas removal using an ionic liquid with an imidazolium-based cation. <i>International Journal of Greenhouse Gas Control</i> , 2019, 87, 89-99.	2.3	23
106	Recovery of lithium from alkaline brine by solvent extraction with functionalized ionic liquid. <i>Fluid Phase Equilibria</i> , 2019, 493, 129-136.	1.4	45
107	Ionic Liquid Materials for the Adsorption of Toxic Gases. , 2019, , 1-8.		0
108	Experimental and Mechanistic Study of Stabilized Dry CO <sub>2</sub> Foam Using Polyelectrolyte Complex Nanoparticles Compatible with Produced Water To Improve Hydraulic Fracturing Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 9431-9449.	1.8	29
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111	Bisimidazolium PEG-mediated crosslinked 6FDA-durene polyimide membranes for CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2019, 224, 180-188.	3.9	41
112	A Reliable Database for Ionic Volume and Surface: Its Application To Predict Molar Volume and Density of Ionic Liquid. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10073-10083.	1.8	8
113	Theoretical study on ionic liquids based on DBUH + : Molecular engineering and hydrogen bond evaluation. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25966.	1.0	2
114	Reactivity of CO <sub>2</sub> with aqueous choline-based ionic liquids probed by solid-state NMR spectroscopy. <i>Journal of Molecular Liquids</i> , 2019, 286, 110918.	2.3	7
115	Improved CO <sub>2</sub> separation performance of aqueous choline-glycine solution by partially replacing water with polyethylene glycol. <i>Fluid Phase Equilibria</i> , 2019, 495, 12-20.	1.4	4
116	Fabrication of PEI-grafted porous polymer foam for CO <sub>2</sub> capture. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47844.	1.3	12
117	Bimodal detection of carbon dioxide using fluorescent molecular aggregates. <i>Chemical Communications</i> , 2019, 55, 6046-6049.	2.2	17
118	Transition metal-catalyzed hydrogenation of carbon dioxide in ionic liquids. <i>Advances in Organometallic Chemistry</i> , 2019, , 259-274.	0.5	4
119	Electrical field facilitates selective transport of CO <sub>2</sub> through a laminated MoS <sub>2</sub> supported ionic liquid membrane. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10041-10046.	5.2	40
120	Anomalous Solute Diffusivity in Ionic Liquids: Label-Free Visualization and Physical Origins. <i>Physical Review X</i> , 2019, 9, .	2.8	6
121	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.	6.6	45
122	Effect of Ionic Liquid Impregnation in Highly Water-Stable Metal-Organic Frameworks, Covalent Organic Frameworks, and Carbon-Based Adsorbents for Post-combustion Flue Gas Treatment. <i>Energy &amp; Fuels</i> , 2019, 33, 3421-3428.	2.5	27
123	Ionic Liquids: Potential Materials for Carbon Dioxide Capture and Utilization. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	95
124	Aprotic Heterocyclic Anion-Based Dual-Functionalized Ionic Liquid Solutions for Efficient CO <sub>2</sub> Uptake: Quantum Chemistry Calculation and Experimental Research. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7312-7323.	3.2	45
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129	Solubilities and Thermodynamic Properties of NH <sub>3</sub> in Glycerin and its Derivatives. Journal of Chemical & Engineering Data, 2019, 64, 1131-1139.	1.0	9
130	Numerical modeling for characterization of CO <sub>2</sub> bubble formation through submerged orifice in ionic liquids. Chemical Engineering Research and Design, 2019, 146, 104-116.	2.7	8
131	Height-driven structure and thermodynamic properties of confined ionic liquids inside carbon nanochannels from molecular dynamics study. Physical Chemistry Chemical Physics, 2019, 21, 12767-12776.	1.3	22
132	Novel drag coefficient models of ionic liquid “ spherical particle system. Chemical Engineering Science, 2019, 204, 177-185.	1.9	5
133	Conversion of CO <sub>2</sub> to value-added products mediated by ionic liquids. Green Chemistry, 2019, 21, 2544-2574.	4.6	199
134	Carbon capture and adjustment of water and hydrocarbon dew-points via absorption with ionic liquid [Bmim][NTf <sub>2</sub> ] in offshore processing of CO <sub>2</sub> -rich natural gas. Journal of Natural Gas Science and Engineering, 2019, 66, 26-41.	2.1	17
135	Recent advances in lithium containing ceramic based sorbents for high-temperature CO <sub>2</sub> capture. Journal of Materials Chemistry A, 2019, 7, 7962-8005.	5.2	106
136	Zeolite catalyst-aided tri-solvent blend amine regeneration: An alternative pathway to reduce the energy consumption in amine-based CO <sub>2</sub> capture process. Applied Energy, 2019, 240, 827-841.	5.1	71
137	Experimental studies of air-blast atomization on the CO <sub>2</sub> capture with aqueous alkali solutions. Chinese Journal of Chemical Engineering, 2019, 27, 2390-2396.	1.7	7
138	Thermodynamic and molecular insights into the absorption of H <sub>2</sub> S, CO <sub>2</sub> , and CH <sub>4</sub> in choline chloride plus urea mixtures. AIChE Journal, 2019, 65, e16574.	1.8	139
139	Surface Structure of Quaternary Ammonium-Based Ionic Liquids Studied Using Molecular Dynamics Simulation: Effect of Switching the Length of Alkyl Chains. Journal of Physical Chemistry C, 2019, 123, 7246-7258.	1.5	14
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670	Solubility of CO <sub>2</sub> in ionic liquids: Predictions based on QSPR study with artificial neural network. AIP Conference Proceedings, 2024, , .	0.3	0
677	Absorption processes for CO <sub>2</sub> removal from CO <sub>2</sub> -rich natural gas. , 2024, , 207-257.		0