

Bihong Lv

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,355
citations

361413

20
h-index

434195

31
g-index

32
all docs

32
docs citations

32
times ranked

997
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of CO ₂ Capture into Monoethanolamine Solution with Different CO ₂ Loading during the Absorption/Desorption Processes. <i>Environmental Science & Technology</i> , 2015, 49, 10728-10735.	10.0	259
2	An efficient absorbent of amine-based amino acid-functionalized ionic liquids for CO ₂ capture: High capacity and regeneration ability. <i>Chemical Engineering Journal</i> , 2016, 289, 212-218.	12.7	109
3	Evaluation of the novel biphasic solvents for CO ₂ capture: Performance and mechanism. <i>International Journal of Greenhouse Gas Control</i> , 2017, 60, 120-128.	4.6	80
4	A novel biphasic solvent of amino-functionalized ionic liquid for CO ₂ capture: High efficiency and regenerability. <i>Journal of CO₂ Utilization</i> , 2018, 25, 22-30.	6.8	77
5	Performance and Mechanisms of Triethylene Tetramine (TETA) and 2-Amino-2-methyl-1-propanol (AMP) in Aqueous and Nonaqueous Solutions for CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1352-1361.	6.7	70
6	Low-viscosity and efficient regeneration of carbon dioxide capture using a biphasic solvent regulated by 2-amino-2-methyl-1-propanol. <i>Applied Energy</i> , 2019, 235, 379-390.	10.1	69
7	Highly efficient removal of chromium(VI) by Fe/Ni bimetallic nanoparticles in an ultrasound-assisted system. <i>Chemosphere</i> , 2016, 160, 332-341.	8.2	68
8	Designing and Screening of Multi-Amino-Functionalized Ionic Liquid Solution for CO ₂ Capture by Quantum Chemical Simulation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1182-1191.	6.7	67
9	Dual-Functionalized Ionic Liquid Biphasic Solvent for Carbon Dioxide Capture: High-Efficiency and Energy Saving. <i>Environmental Science & Technology</i> , 2020, 54, 6281-6288.	10.0	60
10	Aprotic Heterocyclic Anion-Based Dual-Functionalized Ionic Liquid Solutions for Efficient CO ₂ Uptake: Quantum Chemistry Calculation and Experimental Research. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7312-7323.	6.7	45
11	Evaluation of the Multi-amine Functionalized Ionic Liquid for Efficient Postcombustion CO ₂ Capture. <i>Energy & Fuels</i> , 2016, 30, 7489-7495.	5.1	44
12	Understanding the corrosion behavior of carbon steel in amino-functionalized ionic liquids for CO ₂ capture assisted by weight loss and electrochemical techniques. <i>International Journal of Greenhouse Gas Control</i> , 2019, 83, 216-227.	4.6	41
13	2-Amino-2-methyl-1-propanol based non-aqueous absorbent for energy-efficient and non-corrosive carbon dioxide capture. <i>Applied Energy</i> , 2020, 264, 114703.	10.1	39
14	A novel solid-liquid phase controllable biphasic amine absorbent for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2022, 430, 132932.	12.7	38
15	Mass transfer and kinetics of CO ₂ absorption into aqueous monoethanolamine/1-hydroxyethyl-3-methyl imidazolium glycinate solution. <i>Chemical Engineering Journal</i> , 2015, 280, 695-702.	12.7	37
16	Kinetics and Thermodynamics of CO ₂ Absorption into a Novel DETA-AMP-PMDETA Biphasic Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13400-13410.	6.7	31
17	An Efficient Solid-Liquid Biphasic Solvent for CO ₂ Capture: Crystalline Powder Product and Low Heat Duty. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14493-14503.	6.7	31
18	Mechanism and Kinetics of CO ₂ Absorption into an Aqueous Solution of a Triamino-Functionalized Ionic Liquid. <i>Energy & Fuels</i> , 2017, 31, 1793-1802.	5.1	28

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19	Immobilization of carbonic anhydrase on carboxyl-functionalized ferroferric oxide for CO ₂ capture. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 719-725.	7.5	22
20	Performance and reaction kinetics of CO ₂ absorption into AMP solution with [Hmim][Gly] activator. <i>International Journal of Greenhouse Gas Control</i> , 2016, 44, 115-123.	4.6	22
21	Novel Ternary Absorbent: Dibutylamine Aqueous Organic Solution for CO ₂ Capture. <i>Energy & Fuels</i> , 2017, 31, 12530-12539.	5.1	22
22	Kinetic and heat duty study of aprotic heterocyclic anion-based dual functionalized ionic liquid solutions for carbon capture. <i>Fuel</i> , 2020, 263, 116676.	6.4	20
23	How to enhance the regenerability of biphasic absorbents for CO ₂ capture: An efficient strategy by organic alcohols activator. <i>Chemical Engineering Journal</i> , 2022, 429, 132264.	12.7	19
24	Exploring the General Characteristics of Amino-Acid-Functionalized Ionic Liquids through Experimental and Quantum Chemical Calculations. <i>Energy & Fuels</i> , 2017, 31, 4202-4210.	5.1	18
25	Novel biphasic amino-functionalized ionic liquid solvent for CO ₂ capture: kinetics and regeneration heat duty. <i>Environmental Science and Pollution Research</i> , 2020, 27, 26965-26973.	5.3	9
26	Life cycle assessment of pharmaceuticals: the ciprofloxacin hydrochloride case. <i>International Journal of Life Cycle Assessment</i> , 2021, 26, 64-75.	4.7	9
27	How did the corrosion inhibitor work in amino-functionalized ionic liquids for CO ₂ capture: Quantum chemical calculation and experimental. <i>International Journal of Greenhouse Gas Control</i> , 2019, 91, 102846.	4.6	6
28	Absorption characteristics and kinetics of CO ₂ capture into N-methyldiethanolamine aqueous solution catalyzed by the immobilized carbonic anhydrase. <i>Biocatalysis and Biotransformation</i> , 2019, 37, 331-340.	2.0	6
29	Case study on environmental safety and sustainability of pharmaceutical production based on life cycle assessment of enrofloxacin. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105734.	6.7	5
30	High-efficiency removal of NO _x by a novel integrated chemical absorption and two-stage bioreduction process using magnetically stabilized fluidized bed reactors. <i>Science China Chemistry</i> , 2015, 58, 1621-1630.	8.2	2
31	Improvement of water resistance by Fe ₂ O ₃ /TiO ₂ photoelectrocatalysts for formaldehyde removal: experimental and theoretical investigation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 13805-13821.	5.3	2
32	Coupling life cycle assessment with scenario analysis for sustainable management of Disperse blue 60. <i>Environmental Science and Pollution Research</i> , 2020, 27, 25197-25208.	5.3	0