

Xiaobin Zhou

List of Publications by Year in descending order

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13
papers

599
citations

840776

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1125743

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13
docs citations

13
times ranked

423
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Novel Nonaqueous Liquidâ€“Liquid Biphasic Solvent for Energy-Efficient Carbon Dioxide Capture with Low Corrosivity. <i>Environmental Science & Technology</i> , 2020, 54, 16138-16146.	10.0	59
7	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
8	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
9	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
10	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
11	Energy-efficient carbon dioxide capture using a novel low-viscous secondary amine-based nonaqueous biphasic solvent: Performance, mechanism, and thermodynamics. <i>Energy</i> , 2022, 255, 124570.	8.8	24
12	Controllable synthesis various morphologies of 3D hierarchical MnOx-TiO ₂ nanocatalysts for photothermocatalysis toluene and NO with free-ammonia. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 3004-3012.	9.4	13
13	Multi-templates surface molecularly imprinted polymer for simultaneous and rapid determination of sulfonamides and quinolones in water: effect of carbon-carbon double bond. <i>Environmental Science and Pollution Research</i> , 2021, 28, 54950-54959.	5.3	5