

Xiaowen Zhang

List of Publications by Year in descending order

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18
papers

1,058
citations

516710

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839539

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docs citations

18
times ranked

587
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduction of energy requirement of CO ₂ desorption from a rich CO ₂ -loaded MEA solution by using solid acid catalysts. <i>Applied Energy</i> , 2017, 202, 673-684.	10.1	140
2	Analysis of the reduction of energy cost by using MEA-MDEA-PZ solvent for post-combustion carbon dioxide capture (PCC). <i>Applied Energy</i> , 2017, 205, 1002-1011.	10.1	123
3	Evaluating CO ₂ desorption performance in CO ₂ -loaded aqueous tri-solvent blend amines with and without solid acid catalysts. <i>Applied Energy</i> , 2018, 218, 417-429.	10.1	117
4	Reducing energy consumption of CO ₂ desorption in CO ₂ -loaded aqueous amine solution using Al ₂ O ₃ /HZSM-5 bifunctional catalysts. <i>Applied Energy</i> , 2018, 229, 562-576.	10.1	110
5	Reducing Energy Penalty of CO ₂ Capture Using Fe Promoted SO ₄ ²⁻ /ZrO ₂ /MCM-41 Catalyst. <i>Environmental Science & Technology</i> , 2019, 53, 6094-6102.	10.0	94
6	Zeolite catalyst-aided tri-solvent blend amine regeneration: An alternative pathway to reduce the energy consumption in amine-based CO ₂ capture process. <i>Applied Energy</i> , 2019, 240, 827-841.	10.1	71
7	Catalytic performance and mechanism of SO ₄ ²⁻ /ZrO ₂ /SBA-15 catalyst for CO ₂ desorption in CO ₂ -loaded monoethanolamine solution. <i>Applied Energy</i> , 2020, 259, 114179.	10.1	58
8	Amine-based CO ₂ capture aided by acid-basic bifunctional catalyst: Advancement of amine regeneration using metal modified MCM-41. <i>Chemical Engineering Journal</i> , 2020, 383, 123077.	12.7	55
9	SO ₄ ²⁻ /ZrO ₂ supported on γ-Al ₂ O ₃ as a catalyst for CO ₂ desorption from CO ₂ -loaded monoethanolamine solutions. <i>AIChE Journal</i> , 2018, 64, 3988-4001.	3.6	54
10	NMR Techniques and Prediction Models for the Analysis of Species Formed in CO ₂ Capture Processes with Amine-Based Sorbents: A Critical Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6173-6193.	6.7	50
11	Facile separation catalyst system: direct diastereoselective synthesis of (E)- α,β -unsaturated ketones catalyzed by an air-stable Lewis acidic/basic bifunctional organobismuth complex in ionic liquids. <i>Green Chemistry</i> , 2010, 12, 1767.	9.0	38
12	Amine-functionalized sepiolite: Toward highly efficient palladium nanocatalyst for dehydrogenation of additive-free formic acid. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16707-16717.	7.1	33
13	Photoreduction of CO ₂ in the presence of CH ₄ over g-C ₃ N ₄ modified with TiO ₂ nanoparticles at room temperature. <i>Green Energy and Environment</i> , 2021, 6, 938-951.	8.7	26
14	Attapulgitite as a cost-effective catalyst for low-energy consumption amine-based CO ₂ capture. <i>Separation and Purification Technology</i> , 2022, 298, 121577.	7.9	24
15	Thermodynamic studies for improving the prediction of CO ₂ equilibrium solubility in aqueous 2-dimethylamino-2-methyl-1-propanol. <i>Separation and Purification Technology</i> , 2022, 295, 121292.	7.9	21
16	CuO modified KIT-6 as a high-efficiency catalyst for energy-efficient amine solvent regeneration. <i>Separation and Purification Technology</i> , 2022, 300, 121702.	7.9	20
17	Cationic organobismuth complex as an effective catalyst for conversion of CO ₂ into cyclic carbonates. <i>Frontiers of Environmental Science and Engineering in China</i> , 2009, 3, 32-37.	0.8	16
18	Catalytic Performance and Mechanism of Meso-Microporous Material β -SBA-15-Supported FeZr Catalysts for CO ₂ Desorption in CO ₂ -Loaded Aqueous Amine Solution. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2698-2709.	3.7	8