

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