Huancong Shi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9256276/publications.pdf

Version: 2024-02-01

41 papers	1,468 citations	430874 18 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	924 citing authors

#	Article	IF	Citations
1	Facile self-assembly of carbon-free vanadium sulfide nanosheet for stable and high-rate lithium-ion storage. Journal of Colloid and Interface Science, 2022, 607, 145-152.	9.4	25
2	The CO2 absorption and desorption analysis of tri-solvent MEAâ€‰+â€‰EAEâ€‰+â€‰AMP compared with MEAâ€‰+â€‰BEAâ€‰+â€‰AMP along with â€œcoordination effectsâ€•evaluation. Environmental Science and Pollution Research, 2022, 29, 40686-40700.	5.8	16
3	Facile access to high-efficiency degradation of tetracycline hydrochloride with structural optimization of TiN. Environmental Science and Pollution Research, 2022, 29, 36854-36864.	5.3	8
4	Molecular understanding of aqueous electrolyte properties and dielectric effect in a CDI system. Chemical Engineering Journal, 2022, 435, 134750.	12.7	5
5	Structureâ€“Activity Correlation Analyses of MEA + 3A1P/MAE Isomers with a Coordinative Effect Study. Industrial & Engineering Chemistry Research, 2022, 61, 3091-3103.	3.7	9
6	Modeling Study of the Slag Behaviors Based on Temperatureâ€“Timeâ€“Viscosity of Crystalline Slag in an Entrained-Flow Gasifier. ACS Omega, 2022, 7, 11799-11808.	3.5	0
7	The CO2 desorption analysis of tri-solvent MEA+BEA+DEEA with several commercial solid acid catalysts. International Journal of Greenhouse Gas Control, 2022, 116, 103647.	4.6	15
8	Experimental investigations and the modeling approach for CO2 solubility in aqueous blended amine systems of monoethanolamine, 2-amino-2-methyl-1-propanol, and 2-(butylamino)ethanol. Environmental Science and Pollution Research, 2022, 29, 69402-69423.	5.3	12
9	Oxygen-Induced Elemental Mercury Oxidation in Chemical Looping Combustion of Coal. ACS Omega, 2022, 7, 20959-20967.	3.5	6
10	Evaluating CO2 Desorption Activity of Tri-Solvent MEA + EAE + AMP with Various Commercial Solid Acid Catalysts. Catalysts, 2022, 12, 723.	3.5	5
11	Interaction Mechanism Study on Simultaneous Removal of 1,2-Dichlorobenzene and NO over MnO_xâ€“CeO₂/TiO₂ Catalysts at Low Temperatures. Industrial & Engineering Chemistry Research, 2021, 60, 4820-4830.	3.7	15
12	Study of â€œcoordinative effectâ€•within biâ€blended amine MEA + AMP and MEA + BEA at 0.1 + 2â€“0.5 + 2 mol/L with absorptionâ€“desorption parameter analyses. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2645.	1.5	7
13	Application of â€œcoordinative effectâ€•into tri-solvent MEA+BEA+AMP blends at concentrations of 0.1 + 2 + 2â¼0.5 + 2 + 2 mol/L with absorption, desorption and mass transfer analyses. International Journal of Greenhouse Gas Control, 2021, 107, 103267.	4.6	20
14	Evaluating Energy-Efficient Solutions of CO₂ Capture within Tri-solvent MEA+BEA+AMP within 0.1+2+2â€“0.5+2+2 mol/L Combining Heterogeneous Acidâ€“Base Catalysts. Industrial & Engineering Chemistry Research, 2021, 60, 7352-7366.	3.7	16
15	Synthesis of Cu₃P/SnO₂ composites for degradation of tetracycline hydrochloride in wastewater. RSC Advances, 2021, 11, 33471-33480.	3.6	7
16	Catalytic CO₂-MEA absorptions with the aid of CaCO₃, MgCO₃, and BaCO₃ in the batch and semi-batch processes. Chemical Engineering Communications, 2020, 207, 506-522.	2.6	7
17	Studies of the coordination effect of DEA-MEA blended amines (within 1â€¯+â€¯4 to 2â€¯+â€¯3â€¯M) under heterogeneous catalysis by means of absorption and desorption parameters. Separation and Purification Technology, 2020, 236, 116179.	7.9	29
18	Synthesis of SnO2 Hollow Microspheres with Efficient Photocatalytic Activity for Tetracycline Hydrochloride. International Journal of Electrochemical Science, 2020, 15, 1539-1547.	1.3	6

#	Article	IF	Citations
19	The rainfall effect onto solidification and stabilization of heavy metal-polluted sediments. Royal Society Open Science, 2020, 7, 192234.	2.4	5
20	Eleyâ€“Rideal model of heterogeneous catalytic carbamate formation based on CO ₂ â€“MEA absorptions with CaCO ₃ , MgCO ₃ and BaCO ₃. Royal Society Open Science, 2019, 6, 190311.	2.4	10
21	CO2 absorption efficiency of various MEA-DEA blend with aid of CaCO3 and MgCO3 in a batch and semi-batch processes. Separation and Purification Technology, 2019, 220, 102-113.	7.9	19
22	Study of Catalytic CO2 Absorption and Desorption with Tertiary Amine DEEA and 1DMA-2P with the Aid of Solid Acid and Solid Alkaline Chemicals. Molecules, 2019, 24, 1009.	3.8	10
23	CO₂ desorption tests of blended monoethanolamineâ€“diethanolamine solutions to discover novel energy efficient solvents. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2186.	1.5	20
24	Catalytic-CO₂-Desorption Studies of DEA and DEAâ€“MEA Blended Solutions with the Aid of Lewis and BrÃ¸nsted Acids. Industrial & Engineering Chemistry Research, 2018, 57, 11505-11516.	3.7	35
25	Enhanced efficiency and stability of Co 0.5 Cd 0.5 S/g-C 3 N 4 composite photo-catalysts for hydrogen evolution from water under visible light irradiation. International Journal of Hydrogen Energy, 2017, 42, 5741-5748.	7.1	19
26	Amine regeneration tests on MEA, DEA, and MMEA with respect to cabamate stability analyses. Canadian Journal of Chemical Engineering, 2017, 95, 1471-1479.	1.7	12
27	Biotemplating Synthesis of Graphitic Carbon-Coated TiO₂ and Its Application as Efficient Visible-Light-Driven Photocatalyst for Cr⁶⁺ Remove. ACS Sustainable Chemistry and Engineering, 2017, 5, 3938-3944.	6.7	33
28	Heterogeneous catalysis of CO2-diethanolamine absorption with MgCO3 and CaCO3 and comparing to non-catalytic CO2-monoethanolamine interactions. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 539-555.	1.7	20
29	Effective energy efficient methods for heat duty reduction for amine-based post-combustion capture process based on the theoretical reactions energy calculation. International Journal of Oil, Gas and Coal Technology, 2017, 14, 172.	0.2	3
30	Effective energy efficient methods for heat duty reduction for amine-based post-combustion capture process based on the theoretical reactions energy calculation. International Journal of Oil, Gas and Coal Technology, 2017, 14, 172.	0.2	3
31	Kinetics and Reactor Modeling of the Steam Reforming of Methanol over a Mnâ€Promoted Cu/Al Catalyst. Chemical Engineering and Technology, 2015, 38, 2305-2315.	1.5	8
32	Recent progress and new developments in post-combustion carbon-capture technology with amine based solvents. International Journal of Greenhouse Gas Control, 2015, 40, 26-54.	4.6	403
33	Practical experience in post-combustion CO2 capture using reactive solvents in large pilot and demonstration plants. International Journal of Greenhouse Gas Control, 2015, 40, 6-25.	4.6	105
34	Catalytic Solvent Regeneration Using Hot Water During Amine Based CO2 Capture Process. Energy Procedia, 2014, 63, 266-272.	1.8	13
35	1D NMR Analysis of a Quaternary MEAâ€“DEABâ€“CO₂â€“H₂O Amine System: Liquid Phase Speciation and Vaporâ€“Liquid Equilibria at CO₂ Absorption and Solvent Regeneration Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 8577-8591.	3.7	34
36	Catalytic and non catalytic solvent regeneration during absorption-based CO2 capture with single and blended reactive amine solvents. International Journal of Greenhouse Gas Control, 2014, 26, 39-50.	4.6	154

#	Article	IF	Citations
37	13C NMR Spectroscopy of a Novel Amine Species in the DEABâ€“CO2â€“H2O system: VLE Model. Industrial & Engineering Chemistry Research, 2012, 51, 8608-8615.	3.7	63
38	Part 5b: Solvent chemistry: reaction kinetics of CO₂absorption into reactive amine solutions. Carbon Management, 2012, 3, 201-220.	2.4	60
39	Comprehensive mass transfer and reaction kinetics studies of CO2 absorption into aqueous solutions of blended MDEAâ€“MEA. Chemical Engineering Journal, 2012, 209, 501-512.	12.7	125
40	Part 5a: Solvent chemistry: NMR analysis and studies for amineâ€“CO₂â€“H₂O systems with vaporâ€“liquid equilibrium modeling for CO₂capture processes. Carbon Management, 2012, 3, 185-200.	2.4	23
41	Investigation of Mass-Transfer Performance for CO₂ Absorption into Diethylenetriamine (DETA) in a Randomly Packed Column. Industrial & Engineering Chemistry Research, 2012, 51, 12058-12064.	3.7	83