

Huancong Shi

List of Publications by Year in descending order

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papers

1,468
citations

430874

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315739

38
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41
all docs

41
docs citations

41
times ranked

924
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Catalytic and non catalytic solvent regeneration during absorption-based CO ₂ capture with single and blended reactive amine solvents. International Journal of Greenhouse Gas Control, 2014, 26, 39-50.	4.6	154
3	Comprehensive mass transfer and reaction kinetics studies of CO ₂ absorption into aqueous solutions of blended MDEA+MEA. Chemical Engineering Journal, 2012, 209, 501-512.	12.7	125
4	Practical experience in post-combustion CO ₂ capture using reactive solvents in large pilot and demonstration plants. International Journal of Greenhouse Gas Control, 2015, 40, 6-25.	4.6	105
5	Investigation of Mass-Transfer Performance for CO ₂ Absorption into Diethylenetriamine (DETA) in a Randomly Packed Column. Industrial & Engineering Chemistry Research, 2012, 51, 12058-12064.	3.7	83
6	¹³ C NMR Spectroscopy of a Novel Amine Species in the DEAB+CO ₂ +H ₂ O system: VLE Model. Industrial & Engineering Chemistry Research, 2012, 51, 8608-8615.	3.7	63
7	Part 5b: Solvent chemistry: reaction kinetics of CO ₂ absorption into reactive amine solutions. Carbon Management, 2012, 3, 201-220.	2.4	60
8	Catalytic-CO ₂ -Desorption Studies of DEA and DEA+MEA Blended Solutions with the Aid of Lewis and Brønsted Acids. Industrial & Engineering Chemistry Research, 2018, 57, 11505-11516.	3.7	35
9	1D NMR Analysis of a Quaternary MEA+DEAB+CO ₂ +H ₂ O Amine System: Liquid Phase Speciation and Vapor-Liquid Equilibria at CO ₂ Absorption and Solvent Regeneration Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 8577-8591.	3.7	34
10	Biotemplating Synthesis of Graphitic Carbon-Coated TiO ₂ and Its Application as Efficient Visible-Light-Driven Photocatalyst for Cr ⁶⁺ Remove. ACS Sustainable Chemistry and Engineering, 2017, 5, 3938-3944.	6.7	33
11	Studies of the coordination effect of DEA-MEA blended amines (within 1×10 ⁻⁴ to 2×10 ⁻³ M) under heterogeneous catalysis by means of absorption and desorption parameters. Separation and Purification Technology, 2020, 236, 116179.	7.9	29
12	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
13	Part 5a: Solvent chemistry: NMR analysis and studies for amine+CO ₂ +H ₂ O systems with vapor-liquid equilibrium modeling for CO ₂ capture processes. Carbon Management, 2012, 3, 185-200.	2.4	23
14	Heterogeneous catalysis of CO ₂ -diethanolamine absorption with MgCO ₃ and CaCO ₃ and comparing to non-catalytic CO ₂ -monoethanolamine interactions. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 539-555.	1.7	20
15	CO ₂ desorption tests of blended monoethanolamine+diethanolamine solutions to discover novel energy efficient solvents. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2186.	1.5	20
16	Application of coordination effect into tri-solvent MEA+BEA+AMP blends at concentrations of 0.1 + 2 + 2×10 ⁻⁵ + 2 + 2 mol/L with absorption, desorption and mass transfer analyses. International Journal of Greenhouse Gas Control, 2021, 107, 103267.	4.6	20
17	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
18	CO ₂ absorption efficiency of various MEA-DEA blend with aid of CaCO ₃ and MgCO ₃ in a batch and semi-batch processes. Separation and Purification Technology, 2019, 220, 102-113.	7.9	19

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19	Evaluating Energy-Efficient Solutions of CO ₂ Capture within Tri-solvent MEA+BEA+AMP within 0.1+2+2 mol/L Combining Heterogeneous Acid-Base Catalysts. Industrial & Engineering Chemistry Research, 2021, 60, 7352-7366.	3.7	16
20	The CO ₂ absorption and desorption analysis of tri-solvent MEA+BEA+AMP compared with MEA+BEA+AMP along with coordination effects evaluation. Environmental Science and Pollution Research, 2022, 29, 40686-40700.	3.7	16
21	Interaction Mechanism Study on Simultaneous Removal of 1,2-Dichlorobenzene and NO over MnO ₂ /CeO ₂ /TiO ₂ Catalysts at Low Temperatures. Industrial & Engineering Chemistry Research, 2021, 60, 4820-4830.	3.7	15
22	The CO ₂ 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
23	Catalytic Solvent Regeneration Using Hot Water During Amine Based CO ₂ Capture Process. Energy Procedia, 2014, 63, 266-272.	1.8	13
24	Amine regeneration tests on MEA, DEA, and MMEA with respect to carbamate stability analyses. Canadian Journal of Chemical Engineering, 2017, 95, 1471-1479.	1.7	12
25	Experimental investigations and the modeling approach for CO ₂ 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
26	Ideal model of heterogeneous catalytic carbamate formation based on CO ₂ + MEA absorptions with CaCO ₃ , MgCO ₃ and BaCO ₃ . Royal Society Open Science, 2019, 6, 190311.	2.4	10
27	Study of Catalytic CO ₂ 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
28	Structure-Activity Correlation Analyses of MEA + 3A1P/MAE Isomers with a Coordinative Effect Study. Industrial & Engineering Chemistry Research, 2022, 61, 3091-3103.	3.7	9
29	Kinetics and Reactor Modeling of the Steam Reforming of Methanol over a Mn-Promoted Cu/Al Catalyst. Chemical Engineering and Technology, 2015, 38, 2305-2315.	1.5	8
30	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
31	Catalytic CO ₂ -MEA absorptions with the aid of CaCO ₃ , MgCO ₃ , and BaCO ₃ in the batch and semi-batch processes. Chemical Engineering Communications, 2020, 207, 506-522.	2.6	7
32	Study of coordinative effect within blended amine MEA + AMP and MEA + BEA at 0.1 + 2 + 2 mol/L with absorption-desorption parameter analyses. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2645.	1.5	7
33	Synthesis of Cu ₃ P/SnO ₂ composites for degradation of tetracycline hydrochloride in wastewater. RSC Advances, 2021, 11, 33471-33480.	3.6	7
34	Synthesis of SnO ₂ Hollow Microspheres with Efficient Photocatalytic Activity for Tetracycline Hydrochloride. International Journal of Electrochemical Science, 2020, 15, 1539-1547.	1.3	6
35	Oxygen-Induced Elemental Mercury Oxidation in Chemical Looping Combustion of Coal. ACS Omega, 2022, 7, 20959-20967.	3.5	6
36	The rainfall effect onto solidification and stabilization of heavy metal-polluted sediments. Royal Society Open Science, 2020, 7, 192234.	2.4	5

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37	Molecular understanding of aqueous electrolyte properties and dielectric effect in a CDI system. <i>Chemical Engineering Journal</i> , 2022, 435, 134750.	12.7	5
38	Evaluating CO ₂ Desorption Activity of Tri-Solvent MEA + EAE + AMP with Various Commercial Solid Acid Catalysts. <i>Catalysts</i> , 2022, 12, 723.	3.5	5
39	Effective energy efficient methods for heat duty reduction for amine-based post-combustion capture process based on the theoretical reactions energy calculation. <i>International Journal of Oil, Gas and Coal Technology</i> , 2017, 14, 172.	0.2	3
40	Effective energy efficient methods for heat duty reduction for amine-based post-combustion capture process based on the theoretical reactions energy calculation. <i>International Journal of Oil, Gas and Coal Technology</i> , 2017, 14, 172.	0.2	3
41	Modeling Study of the Slag Behaviors Based on Temperature-Viscosity of Crystalline Slag in an Entrained-Flow Gasifier. <i>ACS Omega</i> , 2022, 7, 11799-11808.	3.5	0