

Wichitpan Rongwong

List of Publications by Year in descending order

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32
papers

1,709
citations

304743

22
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

1218
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress and new developments in post-combustion carbon-capture technology with amine based solvents. <i>International Journal of Greenhouse Gas Control</i> , 2015, 40, 26-54.	4.6	403
2	Carbon dioxide (CO ₂) capture: Absorption-desorption capabilities of 2-amino-2-methyl-1-propanol (AMP), piperazine (PZ) and monoethanolamine (MEA) tri-solvent blends. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 742-750.	4.4	122
3	Experimental study on the solvent regeneration of a CO ₂ -loaded MEA solution using single and hybrid solid acid catalysts. <i>AIChE Journal</i> , 2016, 62, 753-765.	3.6	115
4	Heat duty, heat of absorption, sensible heat and heat of vaporization of 2-amino-2-methyl-1-propanol (AMP), Piperazine (PZ) and Monoethanolamine (MEA) tri-solvent blend for carbon dioxide (CO ₂) capture. <i>Chemical Engineering Science</i> , 2017, 170, 26-35.	3.8	96
5	Carbon dioxide (CO ₂) capture performance of aqueous tri-solvent blends containing 2-amino-2-methyl-1-propanol (AMP) and methyldiethanolamine (MDEA) promoted by diethylenetriamine (DETA). <i>International Journal of Greenhouse Gas Control</i> , 2016, 53, 292-304.	4.6	88
6	Solubility, absorption heat and mass transfer studies of CO ₂ absorption into aqueous solution of 1-dimethylamino-2-propanol. <i>Fuel</i> , 2015, 144, 121-129.	6.4	82
7	Experimental studies of regeneration heat duty for CO ₂ desorption from diethylenetriamine (DETA) solution in a stripper column packed with Dixon ring random packing. <i>Fuel</i> , 2014, 136, 261-267.	6.4	66
8	Kinetics of CO ₂ absorption into a novel 1-diethylamino-2-propanol solvent using stopped-flow technique. <i>AIChE Journal</i> , 2014, 60, 3502-3510.	3.6	64
9	Study of Formation of Bicarbonate Ions in CO ₂ -Loaded Aqueous Single 1DMA2P and MDEA Tertiary Amines and Blended MEA-1DMA2P and MEA-MDEA Amines for Low Heat of Regeneration. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3710-3717.	3.7	60
10	Investigation of the effects of operating parameters on the local mass transfer coefficient and membrane wetting in a membrane gas absorption process. <i>Journal of Membrane Science</i> , 2015, 490, 236-246.	8.2	50
11	Energy analysis and optimization of hollow fiber membrane contactors for recovery of dissolved methane from anaerobic membrane bioreactor effluent. <i>Journal of Membrane Science</i> , 2018, 554, 184-194.	8.2	48
12	Optimization of hydrophobic modification parameters of microporous polyvinylidene fluoride hollow-fiber membrane for biogas recovery from anaerobic membrane bioreactor effluent. <i>Journal of Membrane Science</i> , 2018, 548, 510-518.	8.2	48
13	Polymer-fluorinated silica composite hollow fiber membranes for the recovery of biogas dissolved in anaerobic effluent. <i>Journal of Membrane Science</i> , 2017, 540, 146-154.	8.2	46
14	Artificial neural network models for the prediction of CO ₂ solubility in aqueous amine solutions. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 174-184.	4.6	44
15	Resource recovery from industrial wastewaters by hydrophobic membrane contactors: A review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104242.	6.7	43
16	Transport properties of CO ₂ and CH ₄ in hollow fiber membrane contactor for the recovery of biogas from anaerobic membrane bioreactor effluent. <i>Journal of Membrane Science</i> , 2017, 541, 62-72.	8.2	42
17	Fouling formation in membrane contactors for methane recovery from anaerobic effluents. <i>Journal of Membrane Science</i> , 2019, 573, 534-543.	8.2	42
18	Comparative studies of stripper overhead vapor integration-based configurations for post-combustion CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2015, 34, 75-84.	4.6	41

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19	Rate based modeling for CO ₂ absorption using monoethanolamine solution in a hollow fiber membrane contactor. <i>Journal of Membrane Science</i> , 2013, 429, 396-408.	8.2	33
20	Comparison of Overall Gas-Phase Mass Transfer Coefficient for CO ₂ Absorption between Tertiary Amines in a Randomly Packed Column. <i>Chemical Engineering and Technology</i> , 2015, 38, 1435-1443.	1.5	30
21	Membrane-based technologies for post-treatment of anaerobic effluents. <i>Npj Clean Water</i> , 2018, 1, .	8.0	30
22	Experiments and modeling of vapor-liquid equilibrium data in DEEA-CO ₂ -H ₂ O system. <i>International Journal of Greenhouse Gas Control</i> , 2016, 53, 160-168.	4.6	23
23	Experimental Studies of Reboiler Heat Duty for CO ₂ Desorption from Triethylenetetramine (TETA) and Triethylenetetramine (TETA) + <i>N</i> -Methyldiethanolamine (MDEA). <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8554-8560.	3.7	20
24	A modeling study on the effects of pH and partial wetting on the removal of ammonia nitrogen from wastewater by membrane contactors. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104240.	6.7	18
25	Thermal and Oxidative Degradation of Aqueous N, N-Diethylethanolamine (DEEA) at Stripping Conditions for CO ₂ Capture. <i>Energy Procedia</i> , 2014, 63, 1911-1918.	1.8	14
26	Analysis of Reaction Kinetics of CO ₂ Absorption into a Novel 1-(2-Hydroxyethyl)-piperidine Solvent Using Stopped-Flow Technique. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12525-12533.	3.7	14
27	Solubility, Kinetics, Absorption Heat and Mass Transfer Studies of CO ₂ Absorption into Aqueous Solution of 1-Dimethylamino-2-propanol. <i>Energy Procedia</i> , 2014, 63, 659-664.	1.8	13
28	Experimental Studies of Regeneration Heat Duty for CO ₂ Desorption from Aqueous DETA Solution in a Randomly Packed Column. <i>Energy Procedia</i> , 2014, 63, 1497-1503.	1.8	12
29	Simulation Studies of Process Improvement of Three-Tower Low-Temperature Distillation Process to Minimize Energy Consumption for Separation of Produced Gas of CO ₂ -Enhanced Oil CO ₂ solubility and liquid phase ion-speciation determined by 13C NMR. 	1.7	1
30	CO ₂ solubility and liquid phase ion-speciation determined by 13C NMR. 	4.6	1
31	Comparison of Liquid Phase Ion Speciation in DEAB-CO ₂ -H ₂ O System with IPAB-CO ₂ -H ₂ O System Using 13C NMR Techniques. <i>Energy Procedia</i> , 2014, 63, 1919-1926.	1.8	0
32	Analysis of CO ₂ Solubility and Absorption Heat into Aqueous 1-Diethylamino-2-propanol. <i>Energy Procedia</i> , 2017, 114, 873-879.	1.8	0