Paitoon Tontiwachwuthikul

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

276 85 9,720 54 h-index g-index citations papers 6.37 11,041 290 4.3 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
276	The CO absorption and desorption analysis of tri-solvent MEA + EAE + AMP compared with MEA + BEA + AMP along with "coordination effects" evaluation <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
275	Structure Activity Correlation Analyses of MEA + 3A1P/MAE Isomers with a Coordinative Effect Study. <i>Industrial & Discourse Chemistry Research</i> , 2022 , 61, 3091-3103	3.9	2
274	Artificial neural network prediction of transport properties of novel MPDL-based solvents for post combustion carbon capture. <i>Energy Reports</i> , 2022 , 8, 88-94	4.6	1
273	CO2-capture research and Clean Energy Technologies Research Institute (CETRI) of University of Regina, Canada: history, current status and future development. <i>Clean Energy</i> , 2022 , 6, 883-890	4.7	1
272	Comparative desorption energy consumption of post-combustion CO2 capture integrated with mechanical vapor recompression technology. <i>Separation and Purification Technology</i> , 2022 , 294, 121202	8.3	O
271	Synthesis of CuP/SnO composites for degradation of tetracycline hydrochloride in wastewater <i>RSC Advances</i> , 2021 , 11, 33471-33480	3.7	2
270	Applied Artificial Neural Network for Hydrogen Sulfide Solubility in Natural Gas Purification. <i>ACS Omega</i> , 2021 , 6, 31321-31329	3.9	O
269	Density, viscosity, physical CO2 diffusivity, and CO2 absorption capacity of novel blended N-methyl-4-piperidinol and piperazine solvent. <i>Energy Reports</i> , 2021 , 7, 844-853	4.6	1
268	Numerical Simulation of Combustion of Natural Gas Mixed with Hydrogen in Gas Boilers. <i>Energies</i> , 2021 , 14, 6883	3.1	4
267	Study of Boordinative effect within bi-blended amine MEA + AMP and MEA + BEA at 0.1 + 20.5 + 2 mol/L with absorption Besorption parameter analyses. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021 , 16, e2645	1.3	3
266	Experimental investigations and developing multilayer neural network models for prediction of CO2 solubility in aqueous MDEA/PZ and MEA/MDEA/PZ blends 2021 , 11, 712-733		1
265	Application of Eloordinative effectInto tri-solvent MEA+BEA+AMP blends at concentrations of 0.1 + 2 + 2~0.5 + 2 + 2 mol/L with absorption, desorption and mass transfer analyses. <i>International Journal of Greenhouse Gas Control</i> , 2021 , 107, 103267	4.2	7
264	Evaluating Energy-Efficient Solutions of CO2 Capture within Tri-solvent MEA+BEA+AMP within 0.1+2+2 0 .5+2+2 mol/L Combining Heterogeneous Acid B ase Catalysts. <i>Industrial & amp;</i> Engineering Chemistry Research, 2021 , 60, 7352-7366	3.9	5
263	Technology development and applications of artificial intelligence for post-combustion carbon dioxide capture: Critical literature review and perspectives. <i>International Journal of Greenhouse Gas Control</i> , 2021 , 108, 103307	4.2	4
262	Catalytic Performance and Mechanism of MesoMicroporous Material &BA-15-Supported FeZr Catalysts for CO2 Desorption in CO2-Loaded Aqueous Amine Solution. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 2698-2709	3.9	O
261	The optimization and thermodynamic and economic estimation analysis for CO2 compression-liquefaction process of CCUS system using LNG cold energy. <i>Energy</i> , 2021 , 236, 121376	7.9	2
260	Parametric Process Design and Economic Analysis of Post-Combustion CO2 Capture and Compression for Coal- and Natural Gas-Fired Power Plants. <i>Energies</i> , 2020 , 13, 2519	3.1	7

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259	Modified Heterogeneous Catalyst-Aided Regeneration of CO2 Capture Amines: A Promising Perspective for a Drastic Reduction in Energy Consumption. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9526-9536	8.3	16
258	Amine-based CO2 capture aided by acid-basic bifunctional catalyst: Advancement of amine regeneration using metal modified MCM-41. <i>Chemical Engineering Journal</i> , 2020 , 383, 123077	14.7	24
257	Absorption kinetics of CO2 in novel formulated 2-amino-2-methyl-1-propanol and N-methyl-4-piperidinol solvent. <i>Energy Reports</i> , 2020 , 6, 143-150	4.6	2
256	Studies of the coordination effect of DEA-MEA blended amines (within 1 + 4 to 2 + 3 M) under heterogeneous catalysis by means of absorption and desorption parameters. <i>Separation and Purification Technology</i> , 2020 , 236, 116179	8.3	17
255	Catalytic performance and mechanism of SO42/ZrO2/SBA-15 catalyst for CO2 desorption in CO2-loaded monoethanolamine solution. <i>Applied Energy</i> , 2020 , 259, 114179	10.7	26
254	Predictions of equilibrium solubility and mass transfer coefficient for CO2 absorption into aqueous solutions of 4-diethylamino-2-butanol using artificial neural networks. <i>Petroleum</i> , 2020 , 6, 385-391	4.1	4
253	An improved correlation to determine minimum miscibility pressure of CO2Bil system. <i>Green Energy and Environment</i> , 2020 , 5, 97-104	5.7	10
252	Kinetics and new Brfisted correlations study of CO2 absorption into primary and secondary alkanolamine with and without steric-hindrance. <i>Separation and Purification Technology</i> , 2020 , 233, 11	15998	18
251	Laboratory measurements of solubility and swelling factor for CO2/Brine and CO2/heavy oil binary systems under low-medium pressure and temperature. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2137-2145	2.3	1
250	CO2 capture from water-gas shift process plant: Comparative bench-scale pilot plant investigation of MDEA-PZ blend vs novel MDEA activated by 1,5-diamino-2-methylpentane. <i>International Journal of Greenhouse Gas Control</i> , 2019 , 82, 218-228	4.2	7
249	Four nanoscale-extended equations of state: Phase behaviour of confined fluids in shale reservoirs. <i>Fuel</i> , 2019 , 250, 88-97	7.1	9
248	Eley-Rideal model of heterogeneous catalytic carbamate formation based on CO-MEA absorptions with CaCO, MgCO and BaCO. <i>Royal Society Open Science</i> , 2019 , 6, 190311	3.3	4
247	Carbon dioxide capture from pulp mill using 2-amino-2-methyl-1-propanol and monoethanolamine blend: Techno-economic assessment of advanced process configuration. <i>Applied Energy</i> , 2019 , 250, 13	202 ^{<u>1</u>2716}	i ¹⁰
246	Reducing Energy Penalty of CO Capture Using Fe Promoted SO/ZrO/MCM-41 Catalyst. <i>Environmental Science & Environmental Science</i>	10.3	46
245	Study of Catalytic COIAbsorption and Desorption with Tertiary Amine DEEA and 1DMA-2P with the Aid of Solid Acid and Solid Alkaline Chemicals. <i>Molecules</i> , 2019 , 24,	4.8	6
244	Analysis of equilibrium CO2 solubility and thermodynamic models for aqueous 1-(2-hydoxyethyl)-piperidine solution. <i>AICHE Journal</i> , 2019 , 65, e16605	3.6	7
243	Novel models for correlation of Solubility constant and diffusivity of N2O in aqueous 1-dimethylamino-2-propanol. <i>Chemical Engineering Science</i> , 2019 , 203, 86-103	4.4	23
242	Analysis of CO2 equilibrium solubility of seven tertiary amine solvents using thermodynamic and ANN models. <i>Fuel</i> , 2019 , 249, 61-72	7.1	36

241	Viability of carbonated water injection (CWI) as a means of secondary oil recovery in heavy oil systems in presence and absence of wormholes: Microfluidic experiments. <i>Fuel</i> , 2019 , 249, 286-293	7.1	9
240	Reaction Kinetics of Carbon Dioxide in Aqueous Blends of N-Methyldiethanolamine and L-Arginine Using the Stopped-Flow Technique. <i>Processes</i> , 2019 , 7, 81	2.9	5
239	Zeolite catalyst-aided tri-solvent blend amine regeneration: An alternative pathway to reduce the energy consumption in amine-based CO2 capture process. <i>Applied Energy</i> , 2019 , 240, 827-841	10.7	35
238	Better Choice of Tertiary Alkanolamines for Postcombustion CO2 Capture: Structure with Linear Alkanol Chain Instead of Branched. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15344-15	3352	11
237	Study on Diffusivity of CO2 in Oil-Saturated Porous Media under High Pressure and Temperature. <i>Energy & Diffusion (Control of Control of Contr</i>	4.1	6
236	Pilot and Demonstration Plants. SpringerBriefs in Petroleum Geoscience & Engineering, 2019, 47-51	0.1	
235	Solvent Management. SpringerBriefs in Petroleum Geoscience & Engineering, 2019, 29-45	0.1	
234	Introduction and Background Information. <i>SpringerBriefs in Petroleum Geoscience & Engineering</i> , 2019 , 1-5	0.1	
233	Solvent Property of Amine Based Solvents. <i>SpringerBriefs in Petroleum Geoscience & Engineering</i> , 2019 , 7-22	0.1	
232	Post-combustion CO2 Capture Technology. <i>SpringerBriefs in Petroleum Geoscience & Engineering</i> , 2019 ,	0.1	1
231	Carbamate Formation and Amine Protonation Constants in 2-Amino-1-Butanol@O2H2O System and Their Temperature Dependences. <i>Journal of Solution Chemistry</i> , 2018 , 47, 262-277	1.8	5
230	CO2 desorption tests of blended monoethanolaminediethanolamine solutions to discover novel energy efficient solvents. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018 , 13, e2186	1.3	13
229	Investigation mechanism of DEA as an activator on aqueous MEA solution for postcombustion CO2 capture. <i>AICHE Journal</i> , 2018 , 64, 2515-2525	3.6	24
228	Reaction Kinetics of Carbon Dioxide with 2-Amino-1-butanol in Aqueous Solutions Using a Stopped-Flow Technique. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2797-2804	3.9	6
227	CO2 capture efficiency and heat duty of solid acid catalyst-aided CO2 desorption using blends of primary-tertiary amines. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 69, 52-59	4.2	21
226	The study of CO2 absorption intensification using porous media material in aqueous AMP solution. <i>Petroleum</i> , 2018 , 4, 90-94	4.1	4
225	A comparative study of novel activated AMP using 1,5-diamino-2-methylpentane vs MEA solution for CO2 capture from gas-fired power plant. <i>Fuel</i> , 2018 , 234, 1089-1098	7.1	19
224	SO42/ZrO2 supported on EAl2O3 as a catalyst for CO2 desorption from CO2-loaded monoethanolamine solutions. <i>AICHE Journal</i> , 2018 , 64, 3988-4001	3.6	28

223	Reducing energy consumption of CO2 desorption in CO2-loaded aqueous amine solution using Al2O3/HZSM-5 bifunctional catalysts. <i>Applied Energy</i> , 2018 , 229, 562-576	10.7	64
222	Catalytic-CO2-Desorption Studies of DEA and DEAMEA Blended Solutions with the Aid of Lewis and Brilsted Acids. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11505-11516	3.9	22
221	A comparative kinetics study of CO2 absorption into aqueous DEEA/MEA and DMEA/MEA blended solutions. <i>AICHE Journal</i> , 2018 , 64, 1350-1358	3.6	39
220	CO2 capture from lime kiln using AMP-DA2MP amine solvent blend: A pilot plant study. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 7102-7110	6.8	10
219	Techno-economic analysis of CO2 capture from a 1.2 million MTPA cement plant using AMP-PZ-MEA blend. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 78, 400-412	4.2	29
218	Process simulation and parametric sensitivity study of CO2 capture from 115 MW coallired power plant using MEADEA blend. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 76, 1-11	4.2	14
217	Density, Viscosity, and N2O Solubility of Aqueous 2-(Methylamino)ethanol Solution. <i>Journal of Chemical & Data</i> , 2017 , 62, 129-140	2.8	27
216	Advancement and new perspectives of using formulated reactive amine blends for post-combustion carbon dioxide (CO2) capture technologies. <i>Petroleum</i> , 2017 , 3, 10-36	4.1	45
215	The history and development of the IEA GHG Weyburn-Midale CO2 Monitoring and Storage Project in Saskatchewan, Canada (the world largest CO2 for EOR and CCS program). <i>Petroleum</i> , 2017 , 3, 3-9	4.1	12
214	Analysis of solubility, absorption heat and kinetics of CO 2 absorption into 1-(2-hydroxyethyl)pyrrolidine solvent. <i>Chemical Engineering Science</i> , 2017 , 162, 120-130	4.4	34
213	Evaluation of the heat duty of catalyst-aided amine-based post combustion CO2 capture. <i>Chemical Engineering Science</i> , 2017 , 170, 48-57	4.4	48
212	Screening tests of aqueous alkanolamine solutions based on primary, secondary, and tertiary structure for blended aqueous amine solution selection in post combustion CO2 capture. <i>Chemical Engineering Science</i> , 2017 , 170, 574-582	4.4	61
211	Analysis of CO 2 solubility and absorption heat into 1-dimethylamino-2-propanol solution. <i>Chemical Engineering Science</i> , 2017 , 170, 3-15	4.4	60
210	Heat duty, heat of absorption, sensible heat and heat of vaporization of 2Amino2MethylaPropanol (AMP), Piperazine (PZ) and Monoethanolamine (MEA) triBolvent blend for carbon dioxide (CO2) capture. <i>Chemical Engineering Science</i> , 2017 , 170, 26-35	4.4	61
209	Amine regeneration tests on MEA, DEA, and MMEA with respect to cabamate stability analyses. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 1471-1479	2.3	11
208	Reaction kinetics of the absorption of carbon dioxide (CO 2) in aqueous solutions of sterically hindered secondary alkanolamines using the stopped-flow technique. <i>Chemical Engineering Science</i> , 2017 , 170, 16-25	4.4	5
207	Mass transfer studies on catalyst-aided CO2 desorption from CO2-loaded amine solution in a post-combustion CO2 capture plant. <i>Chemical Engineering Science</i> , 2017 , 170, 508-517	4.4	23
206	Kinetics and mechanism study of homogeneous reaction of CO2 and blends of diethanolamine and monoethanolamine using the stopped-flow technique. <i>Chemical Engineering Journal</i> , 2017 , 316, 592-600	14.7	32

205	A Novel Model for Correlation and Predication of the Equilibrium CO 2 Solubility in Seven Tertiary Solvents. <i>Energy Procedia</i> , 2017 , 105, 4476-4481	2.3	3
204	The development of kinetics model for CO2 absorption into tertiary amines containing carbonic anhydrase. <i>AICHE Journal</i> , 2017 , 63, 4933-4943	3.6	12
203	Investigation of CO2 Regeneration in Single and Blended Amine Solvents with and without Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7656-7664	3.9	45
202	Modeling of CO2 equilibrium solubility in a novel 1-Diethylamino-2-Propanol Solvent. <i>AICHE Journal</i> , 2017 , 63, 4465-4475	3.6	13
201	Reaction kinetics of carbon dioxide with aqueous solutions of l-Arginine, Glycine & Sarcosine using the stopped flow technique. <i>International Journal of Greenhouse Gas Control</i> , 2017 , 63, 47-58	4.2	14
200	Development of Ion Speciation Plots for Three Promising Tertiary Amine᠒O2ℍ2O Systems Using the pH Method and the 13C NMR Method. <i>Energy & Description</i> 2017, 31, 3069-3080	4.1	5
199	A new model for correlation and prediction of equilibrium CO2 solubility in N-methyl-4-piperidinol solvent. <i>AICHE Journal</i> , 2017 , 63, 3395-3403	3.6	22
198	Rheological properties study of foam fracturing fluid using CO2 and surfactant. <i>Chemical Engineering Science</i> , 2017 , 170, 720-730	4.4	29
197	The analysis of solubility, absorption kinetics of CO2 absorption into aqueous 1-diethylamino-2-propanol solution. <i>AICHE Journal</i> , 2017 , 63, 2694-2704	3.6	30
196	The Study of Ion Speciation of CO2 Absorption into Aqueous 1-Dimethylamino-2-propanol Solution Using the NMR Technique. <i>Energy Procedia</i> , 2017 , 114, 1803-1810	2.3	
195	Kinetics of Carbon Dioxide (CO2) with DiethylenetriamineinNon-aqueous Solvents Using Stopped-flow Technique. <i>Energy Procedia</i> , 2017 , 114, 1869-1876	2.3	1
194	The Research on the Coordinative and Competitive Relationship between MEA and DEA Absorbing CO2 into Aqueous Blended Amine Solution. <i>Energy Procedia</i> , 2017 , 114, 1883-1889	2.3	3
193	Solvent Extraction of Degradation Products in Amine Absorption Solution for CO2 Capture in Flue Gases from Coal Combustion: Effect of Amines. <i>Energy Procedia</i> , 2017 , 114, 1980-1985	2.3	3
192	Effect of Number of Hydroxyl Group in Sterically Hindered Alkanolamine on CO2 Capture Activity. <i>Energy Procedia</i> , 2017 , 114, 1966-1972	2.3	1
191	Density, Viscosity, Refractive Index and Heat capacity Studies of Aqueous Ethylaminoethanol Solutions at 293.15 to 323.15 K. <i>Energy Procedia</i> , 2017 , 114, 1523-1529	2.3	
190	Mass Transfer Studies on Catalyst Aided Desorption Using a Blended Solvent in a Post Combustion Capture Plant. <i>Energy Procedia</i> , 2017 , 114, 1506-1513	2.3	
189	Experiments and Modeling of Vapor-liquid Equilibrium in DEEA-CO2-H2O System. <i>Energy Procedia</i> , 2017 , 114, 1530-1537	2.3	1
188	Investigation of mass transfer coefficient of CO2 absorption into amine solutions in hollow fiber membrane contactor. <i>Energy Procedia</i> , 2017 , 114, 621-626	2.3	4

(2016-2017)

187	The Effect of Chemical Structure of Newly Synthesized Tertiary Amines Used for the Post Combustion Capture Process on Carbon dioxide (CO2): Kinetics of CO2 Absorption Using the Stopped-Flow Apparatus and Regeneration, and Heat Input of CO2 Regeneration. <i>Energy Procedia</i> ,	2.3	8
186	Regeneration Energy Analysis of Aqueous TriBolvent Blends Containing 2AminoIMethylIBropanol (AMP), Methyldiethanolamine (MDEA) and Diethylenetriamine (DETA) for Carbon Dioxide (CO2) Capture. <i>Energy Procedia</i> , 2017 , 114, 2039-2046	2.3	7
185	Heterogeneous catalysis of CO2-diethanolamine absorption with MgCO3 and CaCO3 and comparing to non-catalytic CO2-monoethanolamine interactions. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 122, 539-555	1.6	12
184	Study of Ion Speciation of CO2 Absorption into Aqueous 1-Dimethylamino-2-propanol Solution Using the NMR Technique. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8697-8704	3.9	4
183	Review on current advances, future challenges and consideration issues for post-combustion CO2 capture using amine-based absorbents. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 278-288	3.2	113
182	Carbon dioxide (CO2) 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	4.2	54
181	Experiments and modeling of vapor-liquid equilibrium data in DEEA-CO2-H2O system. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 53, 160-168	4.2	21
180	Reaction Kinetics of Carbon Dioxide (CO2) with Diethylenetriamine and 1-Amino-2-propanol in Nonaqueous Solvents Using Stopped-Flow Technique. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7307-7317	3.9	22
179	A study of structure activity relationships of commercial tertiary amines for post-combustion CO2 capture. <i>Applied Energy</i> , 2016 , 184, 219-229	10.7	93
178	Artificial Neural Networks for Accurate Prediction of Physical Properties of Aqueous Quaternary Systems of Carbon Dioxide (CO2)-Loaded 4-(Diethylamino)-2-butanol and Methyldiethanolamine Blended with Monoethanolamine. <i>Industrial & Diethylaming Chemistry Research</i> , 2016 , 55, 11614-116	3.9 5 21	12
177	Carbon dioxide (CO2) 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	4.6	78
176	New Reactive Extraction Based Reclaiming Technique for Amines Used in Carbon Dioxide Capture Process from Industrial Flue Gases. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5006-501	8 ^{3.9}	5
175	Human health risks of post- and oxy-fuel combustion carbon dioxide capture technologies: Hypothetically modeled scenarios. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 47, 279-290	4.2	4
174	A Comparative Study of Human Health Impacts Due to Heavy Metal Emissions from a Conventional Lignite Coal-Fired Electricity Generation Station, with Post-Combustion, and Oxy- Fuel Combustion Capture Technologies 2016 ,		1
173	Environmental Performance of Hypothetical Canadian Pre-Combustion Carbon Dioxide Capture Processes Using Life-Cycle Techniques. <i>Technologies</i> , 2016 , 4, 9	2.4	
172	Experimental study on the solvent regeneration of a CO2-loaded MEA solution using single and hybrid solid acid catalysts. <i>AICHE Journal</i> , 2016 , 62, 753-765	3.6	78
171	Reaction kinetics of carbon dioxide in aqueous blends of N-methyldiethanolamine and glycine using the stopped flow technique. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 33, 186-195	4.6	12
170	Synthesis of new amines for enhanced carbon dioxide (CO2) capture performance: The effect of chemical structure on equilibrium solubility, cyclic capacity, kinetics of absorption and regeneration, and heats of absorption and regeneration. Separation and Purification Technology,	8.3	63

169	Study of cyclic CO2 injection for low-pressure light oil recovery under reservoir conditions. <i>Fuel</i> , 2016 , 174, 296-306	7.1	42
168	An improved fast screening method for single and blended amine-based solvents for post-combustion CO2 capture. <i>Separation and Purification Technology</i> , 2016 , 169, 279-288	8.3	49
167	Solubility, absorption heat and mass transfer studies of CO2 absorption into aqueous solution of 1-dimethylamino-2-propanol. <i>Fuel</i> , 2015 , 144, 121-129	7.1	64
166	Determination of VaporIliquid Equilibrium (VLE) Plots of 1-Dimethylamino-2-propanol Solutions Using the pH Method. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 4709-4716	3.9	20
165	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	4.2	291
164	Practical experience in post-combustion CO2 capture using reactive solvents in large pilot and demonstration plants. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 40, 6-25	4.2	85
163	Simulation Studies of Process Improvement of Three-Tower Low-Temperature Distillation Process to Minimize Energy Consumption for Separation of Produced Gas of CO2-Enhanced Oil Recovery (EOR). Canadian Journal of Chemical Engineering, 2015, 93, 1266-1274	2.3	0
162	Experimental study of the kinetics of the homogenous reaction of CO2 into a novel aqueous 3-diethylamino-1,2-propanediol solution using the stopped-flow technique. <i>Chemical Engineering Journal</i> , 2015 , 270, 485-495	14.7	24
161	Enhanced light oil recovery from tight formations through CO 2 huff 🗈 🖺 uff processes. Fuel, 2015 , 154, 35-44	7.1	80
160	Experimental Studies of Reboiler Heat Duty for CO2 Desorption from Triethylenetetramine (TETA) and Triethylenetetramine (TETA) + N-Methyldiethanolamine (MDEA). <i>Industrial & amp; Engineering Chemistry Research</i> , 2015 , 54, 8554-8560	3.9	14
159	Experimental analyses of mass transfer and heat transfer of post-combustion CO2 absorption using hybrid solvent MEAMeOH in an absorber. <i>Chemical Engineering Journal</i> , 2015 , 260, 11-19	14.7	54
158	Kinetics and Reactor Modeling of the Steam Reforming of Methanol over a Mn-Promoted Cu/Al Catalyst. <i>Chemical Engineering and Technology</i> , 2015 , 38, 2305-2315	2	6
157	Comparison of Overall Gas-Phase Mass Transfer Coefficient for CO2 Absorption between Tertiary Amines in a Randomly Packed Column. <i>Chemical Engineering and Technology</i> , 2015 , 38, 1435-1443	2	20
156	Artificial neural network models for the prediction of CO2 solubility in aqueous amine solutions. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 39, 174-184	4.2	31
155	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, 23	6-246	44
154	Analysis of Reaction Kinetics of CO2 Absorption into a Novel 1-(2-Hydroxyethyl)-piperidine Solvent Using Stopped-Flow Technique. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12525-1253	3 ^{3.9}	12
153	Kinetics of CO2 absorption into a novel 1-diethylamino-2-propanol solvent using stopped-flow technique. <i>AICHE Journal</i> , 2014 , 60, 3502-3510	3.6	56
152	High-Pressure Solubility of Carbon Dioxide (CO2) in Aqueous 1-Methyl Piperazine Solution. <i>Journal of Chemical & Data</i> , 2014 , 59, 3610-3623	2.8	10

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