List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of nickel on combustion synthesized copper/ <scp> fumedâ€SiO ₂ </scp> catalyst for selective reduction of <scp> CO ₂ </scp> to <scp>CO</scp> . International Journal of Energy Research, 2022, 46, 441-451.	2.2	8
2	Walnut shell based adsorbents: A review study on preparation, mechanism, and application. Journal of Water Process Engineering, 2022, 45, 102527.	2.6	44
3	New method of kinetic modeling for <scp>CO₂</scp> absorption into blended amine systems: A case of <scp>MEA</scp> / <scp>EAE</scp> / <scp>3DEA1P</scp> trisolvent blends. AICHE Journal, 2022, 68, .	1.8	18
4	A study of kinetics, equilibrium solubility, speciation and thermodynamics of CO2 absorption into benzylamine (BZA) solution. Chemical Engineering Science, 2022, 251, 117452.	1.9	10
5	Theoretical and experimental studies of highly efficient all-solid Z-scheme TiO ₂ –TiC/g-C ₃ N ₄ for photocatalytic CO ₂ reduction <i>via</i> dry reforming of methane. Catalysis Science and Technology, 2022. 12. 2804-2818.	2.1	9
6	An experimental/computational study of steric hindrance effects on <scp>CO₂</scp> absorption in (non)aqueous amine solutions. AICHE Journal, 2022, 68, .	1.8	10
7	Molecular dynamics of <scp>CH₄</scp> / <scp>CO₂</scp> on calcite for enhancing gas recovery. Canadian Journal of Chemical Engineering, 2022, 100, 3184-3195.	0.9	2
8	Study of Non-Noble-Metal-Based Metal–Nitrogen–Carbon Catalysts for Formic Acid Dehydrogenation. ACS Sustainable Chemistry and Engineering, 2022, 10, 4599-4609.	3.2	9
9	Experimental and Theoretical Studies of Ultrafine Pd-Based Biochar Catalyst for Dehydrogenation of Formic Acid and Application of In Situ Hydrogenation. ACS Applied Materials & Interfaces, 2022, 14, 17282-17295.	4.0	10
10	Efficient nickelâ€based catalysts for amine regeneration of <scp>CO₂</scp> capture: From experimental to calculations verifications. AICHE Journal, 2022, 68, .	1.8	10
11	Kinetics of CO2 absorption into ethanolamineÂ+ÂwaterÂ+Âethanol system—mechanism, role of water, and kinetic model. Chemical Engineering Science, 2022, 259, 117732.	1.9	8
12	Experimental Measurement and Modeling Prediction of Mass Transfer in a Hollow Fiber Membrane Contactor Using Tertiary Amine Solutions for CO ₂ Absorption. Industrial & Engineering Chemistry Research, 2022, 61, 9632-9643.	1.8	8
13	Study of Direct Synthesis of DMC from CO ₂ and Methanol on CeO ₂ : Theoretical Calculation and Experiment. Industrial & Engineering Chemistry Research, 2022, 61, 10804-10817.	1.8	10
14	CO2 enhanced gas recovery and sequestration in depleted gas reservoirs: A review. Journal of Petroleum Science and Engineering, 2021, 196, 107685.	2.1	125
15	Selective preparation and reaction kinetics of dimethyl carbonate from alcoholysis of methyl carbamate with methanol over ZnAl-LDO. Reaction Chemistry and Engineering, 2021, 6, 1854-1868.	1.9	6
16	Distinct photodynamics of κ-N and κ-C pseudoisomeric iron(<scp>ii</scp>) complexes. Chemical Communications, 2021, 57, 6640-6643.	2.2	23
17	Catalytic Performance and Mechanism of Meso–Microporous Material β-SBA-15-Supported FeZr Catalysts for CO ₂ Desorption in CO ₂ -Loaded Aqueous Amine Solution. Industrial & Engineering Chemistry Research, 2021, 60, 2698-2709.	1.8	8
18	Impact of clays on CO2 adsorption and enhanced gas recovery in sandstone reservoirs. International Journal of Greenhouse Gas Control, 2021, 106, 103286	2.3	15

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19	Theoretical studies of methane adsorption on Silica-Kaolinite interface for shale reservoir application. Applied Surface Science, 2021, 546, 149164.	3.1	23
20	Simple and Shortcut Method for Evaluating and Guiding the Removal of Degradation Products, Improving Solvent Performance, and Reducing Regeneration Energy. Industrial & Engineering Chemistry Research, 2021, 60, 6249-6261.	1.8	1
21	Application of "coordinative effect―into tri-solvent MEA+BEA+AMP blends at concentrations of 0.1 + 2 + 2â^¼0.5 + 2 + 2 mol/L with absorption, desorption and mass transfer analyses. International Journal of Greenhouse Gas Control, 2021, 107, 103267.	2.3	20
22	Ab-Initio Molecular Dynamics investigation of gas adsorption on α-quartz (001) for CO2 enhanced natural gas recovery. Journal of Petroleum Science and Engineering, 2021, 205, 108963.	2.1	2
23	Phosphorus-doped h-boron nitride as an efficient metal-free catalyst for direct dehydrogenation of ethylbenzene. Catalysis Science and Technology, 2021, 11, 5590-5597.	2.1	7
24	Applied Artificial Neural Network for Hydrogen Sulfide Solubility in Natural Gas Purification. ACS Omega, 2021, 6, 31321-31329.	1.6	3
25	CO ₂ Adsorption Behavior of 3-Aminopropyltrimethoxysilane-Functionalized Attapulgite with the Grafting Modification Method. Industrial & Engineering Chemistry Research, 2021, 60, 17150-17161.	1.8	9
26	Reducing Heat Duty of MEA Regeneration Using a Sulfonic Acid-Functionalized Mesoporous MCM-41 Catalyst. Industrial & Engineering Chemistry Research, 2021, 60, 18304-18315.	1.8	15
27	Predictions of equilibrium solubility and mass transfer coefficient for CO2 absorption into aqueous solutions of 4-diethylamino-2-butanol using artificial neural networks. Petroleum, 2020, 6, 385-391.	1.3	8
28	The comparative kinetics study of CO2 absorption into non-aqueous DEEA/MEA and DMEA/MEA blended systems solution by using stopped-flow technique. Chemical Engineering Journal, 2020, 386, 121295.	6.6	27
29	Fast screening of amine/physical solvent systems and mass transfer studies on efficient aqueous hybrid MEA/Sulfolane solution for postcombustion CO ₂ capture. Journal of Chemical Technology and Biotechnology, 2020, 95, 649-664.	1.6	7
30	Mass transfer performance and correlations for CO ₂ absorption into aqueous blended PG/MEA in PTFE membrane contactor. Journal of Chemical Technology and Biotechnology, 2020, 95, 27-39.	1.6	9
31	Theoretical modeling of the mass transfer performance of CO2 absorption into DEAB solution in hollow fiber membrane contactor. Journal of Membrane Science, 2020, 593, 117439.	4.1	38
32	A theoretical study of gas adsorption on calcite for CO2 enhanced natural gas recovery. Applied Surface Science, 2020, 504, 144575.	3.1	28
33	Study of Equilibrium Solubility, NMR Analysis, and Reaction Kinetics of CO2 Absorption into Aqueous N1,N2-Dimethylethane-1,2-diamine Solutions. Energy & Fuels, 2020, 34, 672-682.	2.5	10
34	Synergistic Enhanced Ca–Fe Chemical Looping Reforming Process for Integrated CO ₂ Capture and Conversion. Industrial & Engineering Chemistry Research, 2020, 59, 1298-1307.	1.8	23
35	Catalytic performance and mechanism of SO42â`'/ZrO2/SBA-15 catalyst for CO2 desorption in CO2-loaded monoethanolamine solution. Applied Energy, 2020, 259, 114179.	5.1	58
36	The effect of N-heterocyclic carbene units on the absorption spectra of Fe(<scp>ii</scp>) complexes: a challenge for theory. Physical Chemistry Chemical Physics, 2020, 22, 27605-27616.	1.3	8

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37	Development of a Promising Biphasic Absorbent for Postcombustion CO ₂ Capture: Sulfolane + 2-(Methylamino)ethanol + H ₂ O. Industrial & Engineering Chemistry Research, 2020, 59, 14496-14506.	1.8	32
38	Efficient Metal–Organic Framework-Derived Cu–Zr Oxygen Carriers with an Enhanced Reduction Reaction Rate for Chemical Looping Air Separation. ACS Sustainable Chemistry and Engineering, 2020, 8, 14795-14806.	3.2	10
39	Ab Initio Molecular Dynamics Investigation of CH ₄ /CO ₂ Adsorption on Calcite: Improving the Enhanced Gas Recovery Process. ACS Omega, 2020, 5, 30226-30236.	1.6	6
40	Comparative kinetics of homogeneous reaction of CO2 and unloaded/loaded amine using stopped-flow technique: A case study of MDEA solution. Separation and Purification Technology, 2020, 242, 116833.	3.9	4
41	Scalable surface engineering of commercial metal foams for defect-rich hydroxides towards improved oxygen evolution. Journal of Materials Chemistry A, 2020, 8, 12603-12612.	5.2	23
42	Modified Heterogeneous Catalyst-Aided Regeneration of CO ₂ Capture Amines: A Promising Perspective for a Drastic Reduction in Energy Consumption. ACS Sustainable Chemistry and Engineering, 2020, 8, 9526-9536.	3.2	28
43	Novel thermodynamic model for vapor-liquid equilibrium of CO2 in aqueous solution of 4-(ethyl-methyl-amino)-2-butanol with designed structures. Chemical Engineering Science, 2020, 218, 115557.	1.9	14
44	Carbon dioxide EGR and sequestration in mature and immature shale: Adsorption study. Journal of Petroleum Science and Engineering, 2020, 188, 106923.	2.1	12
45	Comparative kinetics of carbon dioxide (CO2) absorption into EAE, 1DMA2P and their blends in aqueous solution using the stopped-flow technique. International Journal of Greenhouse Gas Control, 2020, 94, 102948.	2.3	24
46	A theoretical study of gas adsorption on α-quartz (OÂOÂ1) for CO2 enhanced natural gas recovery. Applied Surface Science, 2020, 525, 146472.	3.1	10
47	Synthesis of fumed silica supported Ni catalyst for carbon dioxide conversion to methane. , 2020, 10, 715-724.		7
48	Amine-based CO2 capture aided by acid-basic bifunctional catalyst: Advancement of amine regeneration using metal modified MCM-41. Chemical Engineering Journal, 2020, 383, 123077.	6.6	55
49	Better Choice of Tertiary Alkanolamines for Postcombustion CO ₂ Capture: Structure with Linear Alkanol Chain Instead of Branched. Industrial & Engineering Chemistry Research, 2019, 58, 15344-15352.	1.8	16
50	Characterization and Correlations of CO ₂ Absorption Performance into Aqueous Amine Blended Solution of Monoethanolamine (MEA) and <i>N</i> , <i>N</i> -Dimethylethanolamine (DMEA) in a Packed Column. Energy & Fuels, 2019, 33, 7614-7625.	2.5	29
51	Enhancing CO2 desorption performance in rich MEA solution by addition of SO42â^'/ZrO2/SiO2 bifunctional catalyst. Applied Energy, 2019, 252, 113440.	5.1	40
52	Study on Diffusivity of CO ₂ in Oil-Saturated Porous Media under High Pressure and Temperature. Energy & Fuels, 2019, 33, 11364-11372.	2.5	12
53	New Insights and Assessment of Primary Alkanolamine/Sulfolane Biphasic Solutions for Post-combustion CO ₂ Capture: Absorption, Desorption, Phase Separation, and Technological Process. Industrial & Engineering Chemistry Research, 2019, 58, 20461-20471.	1.8	30
54	Effect of rock mineralogy on Hot-CO2 injection for enhanced gas recovery. Journal of Natural Gas Science and Engineering, 2019, 72, 103030.	2.1	19

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55	High-dimensional exciton-vibrational wave-packet dynamics in the FMO complex. influence of site-specific spectral densities. EPJ Web of Conferences, 2019, 205, 10010.	0.1	1
56	Experimental studies on mass transfer performance for CO2 absorption into aqueous N,N-dimethylethanolamine (DMEA) based solutions in a PTFE hollow fiber membrane contactor. International Journal of Greenhouse Gas Control, 2019, 82, 210-217.	2.3	29
57	Effect of fuel content on the electrocatalytic methanol oxidation performance of Pt/ZnO nanoparticles synthesized by solution combustion. Applied Surface Science, 2019, 492, 73-81.	3.1	12
58	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.	4.6	94
59	Analysis of equilibrium CO ₂ solubility and thermodynamic models for aqueous 1â€(2â€hydoxyethyl)â€piperidine solution. AICHE Journal, 2019, 65, e16605.	1.8	13
60	Expeditious and highly efficient synthesis of propargylamines using a Pdâ€Cu nanowires catalyst under solventâ€free conditions. Applied Organometallic Chemistry, 2019, 33, e4917.	1.7	16
61	Zeolite catalyst-aided tri-solvent blend amine regeneration: An alternative pathway to reduce the energy consumption in amine-based CO2 capture process. Applied Energy, 2019, 240, 827-841.	5.1	71
62	Highly Efficient Hydrogen Generation from a Formic Acid/Triethanolamine System Using a Pd-Based Catalyst and Correlation for Apparent Activation Energy Estimation. Industrial & Engineering Chemistry Research, 2019, 58, 22984-22995.	1.8	11
63	Galvanic Exchange as a Novel Method for Carbon Nitride Supported CoAg Catalyst Synthesis for Oxygen Reduction and Carbon Dioxide Conversion. Catalysts, 2019, 9, 860.	1.6	12
64	Pd Nanoclusters-Based Catalysts with Schiff Base Modifying Carrier for Co ₂ Hydrogenation to Formic Acid. Industrial & Engineering Chemistry Research, 2019, 58, 44-52.	1.8	18
65	CO2 Adsorption on Premodified Li/Al Hydrotalcite Impregnated with Polyethylenimine. Industrial & Engineering Chemistry Research, 2019, 58, 1177-1189.	1.8	18
66	Kinetics and new mechanism study of CO ₂ absorption <scp>i</scp> nto water and tertiary amine solutions <scp>b</scp> y stoppedâ€Flow technique. AICHE Journal, 2019, 65, 652-661.	1.8	20
67	Experimental and theoretical studies on the mechanical and structural changes imposed by the variation of clay loading on poly(vinyl alcohol)/cloisite® 93A nanocomposites. Journal of Vinyl and Additive Technology, 2019, 25, 172-181.	1.8	11
68	Analysis for the speciation in CO2 loaded aqueous MEDA and MAPA solution using 13C NMR technology. International Journal of Greenhouse Gas Control, 2018, 71, 1-8.	2.3	15
69	Premodified Sepiolite Functionalized with Triethylenetetramine as an Effective and Inexpensive Adsorbent for CO ₂ Capture. Industrial & Engineering Chemistry Research, 2018, 57, 6189-6200.	1.8	57
70	Zn-enriched PtZn nanoparticle electrocatalysts synthesized by solution combustion for ethanol oxidation reaction in an alkaline medium. MRS Communications, 2018, 8, 411-419.	0.8	10
71	Investigation mechanism of DEA as an activator on aqueous MEA solution for postcombustion CO ₂ capture. AICHE Journal, 2018, 64, 2515-2525.	1.8	38
72	Synthesis, characterization and performance of Pd-based core-shell methane oxidation nano-catalysts. Journal of Natural Gas Science and Engineering, 2018, 55, 625-633.	2.1	9

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73	A Rapid and Highly Efficient Method for the Synthesis of Benzofulvenes via CsOHâ€Catalyzed Condensation of Indene and Aldehydes. European Journal of Organic Chemistry, 2018, 2018, 1347-1351.	1.2	5
74	Toward to efficient CO2 capture solvent design by analyzing the effect of substituent type connected to N-atom. Energy, 2018, 144, 1064-1072.	4.5	31
75	A study of film thickness and hydrodynamic entrance length in liquid laminar film flow along a vertical tube. AICHE Journal, 2018, 64, 2078-2088.	1.8	17
76	Evaluating CO2 desorption performance in CO2-loaded aqueous tri-solvent blend amines with and without solid acid catalysts. Applied Energy, 2018, 218, 417-429.	5.1	117
77	Cleaning of ceramic membranes for produced water filtration. Journal of Petroleum Science and Engineering, 2018, 166, 283-289.	2.1	52
78	Impact of Surfactant on the Retention of CO ₂ and Methane in Carbonate Reservoirs. Energy & Fuels, 2018, 32, 5355-5363.	2.5	17
79	Inter-phase charge and energy transfer in Ruddlesden–Popper 2D perovskites: critical role of the spacing cations. Journal of Materials Chemistry A, 2018, 6, 6244-6250.	5.2	94
80	A comparative kinetics study of CO ₂ absorption into aqueous DEEA/MEA and DMEA/MEA blended solutions. AICHE Journal, 2018, 64, 1350-1358.	1.8	72
81	Optimized process configuration for CO2 recovery from crude synthesis gas via a rectisol wash process. International Journal of Greenhouse Gas Control, 2018, 79, 83-90.	2.3	26
82	Experimental and Theoretical Studies on Mass Transfer Performance for CO ₂ Absorption into Aqueous <i>N</i> , <i>N</i> -Dimethylethanolamine Solution in the Polytetrafluoroethylene Hollow-Fiber Membrane Contactor. Industrial & Engineering Chemistry Research, 2018, 57, 16862-16874	1.8	17
83	Study of Equilibrium Solubility, Heat of Absorption, and Speciation of CO ₂ Absorption into Aqueous 2-Methylpiperazine (2MPZ) Solution. Industrial & Engineering Chemistry Research, 2018, 57, 17496-17503.	1.8	10
84	Active and Stable Methane Oxidation Nano-Catalyst with Highly-Ionized Palladium Species Prepared by Solution Combustion Synthesis. Catalysts, 2018, 8, 66.	1.6	15
85	Reprint of "The effect of site-specific spectral densities on the high-dimensional exciton-vibrational dynamics in the FMO complexâ€. Chemical Physics, 2018, 509, 163-169.	0.9	0
86	Investigation of hydrodynamic performance and effective mass transfer area for Sulzer DX structured packing. AICHE Journal, 2018, 64, 3625-3637.	1.8	10
87	SO ₄ ^{2â^'} /ZrO ₂ supported on γâ€Al ₂ O ₃ as a catalyst for CO ₂ desorption from CO ₂ â€loaded monoethanolamine solutions. AICHE Journal, 2018, 64, 3988-4001.	1.8	54
88	Reducing energy consumption of CO2 desorption in CO2-loaded aqueous amine solution using Al2O3/HZSM-5 bifunctional catalysts. Applied Energy, 2018, 229, 562-576.	5.1	110
89	Airâ€stable Bis(pentamethylcyclopentadienyl) Zirconium Perfluorooctanesulfonate as an Efficient and Recyclable Catalyst for the Synthesis of Nâ€substituted Amides. ChemCatChem, 2018, 10, 3532-3538.	1.8	34
90	Synthesis and characterization of poly(vinyl alcohol): Cloisite [®] 20A nanocomposites. Journal of Vinyl and Additive Technology, 2017, 23, 181-187.	1.8	11

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91	Density, Viscosity, and N ₂ O Solubility of Aqueous 2-(Methylamino)ethanol Solution. Journal of Chemical & Engineering Data, 2017, 62, 129-140.	1.0	33
92	Advancement and new perspectives of using formulated reactive amine blends for post-combustion carbon dioxide (CO2) capture technologies. Petroleum, 2017, 3, 10-36.	1.3	66
93	Effect of the support on physicochemical properties and catalytic performance of cobalt based nano-catalysts in Fischer-Tropsch reaction. Materials Today Communications, 2017, 10, 67-71.	0.9	13
94	Analysis of solubility, absorption heat and kinetics of CO2 absorption into 1-(2-hydroxyethyl)pyrrolidine solvent. Chemical Engineering Science, 2017, 162, 120-130.	1.9	40
95	Dynamic Exergy Method for Evaluating the Control and Operation of Oxy-Combustion Boiler Island Systems. Environmental Science & amp; Technology, 2017, 51, 725-732.	4.6	14
96	Controlled growth of Cu2O thin films by electrodeposition approach. Materials Science in Semiconductor Processing, 2017, 63, 203-211.	1.9	74
97	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 (CO2) capture. Chemical Engineering Science, 2017, 170, 26-35.	1.9	96
98	Amine regeneration tests on MEA, DEA, and MMEA with respect to cabamate stability analyses. Canadian Journal of Chemical Engineering, 2017, 95, 1471-1479.	0.9	12
99	Time-resolved terahertz spectroscopy reveals the influence of charged sensitizing quantum dots on the electron dynamics in ZnO. Physical Chemistry Chemical Physics, 2017, 19, 6006-6012.	1.3	6
100	Reaction kinetics of the absorption of carbon dioxide (CO 2) in aqueous solutions of sterically hindered secondary alkanolamines using the stopped-flow technique. Chemical Engineering Science, 2017, 170, 16-25.	1.9	9
101	Mass transfer performance and correlations for CO ₂ absorption into aqueous blended of DEEA/MEA in a random packed column. AICHE Journal, 2017, 63, 3048-3057.	1.8	61
102	Kinetics and mechanism study of homogeneous reaction of CO2 and blends of diethanolamine and monoethanolamine using the stopped-flow technique. Chemical Engineering Journal, 2017, 316, 592-600.	6.6	40
103	Bimetallic Au–Pd nanochain networks: facile synthesis and promising application in biaryl synthesis. New Journal of Chemistry, 2017, 41, 3894-3899.	1.4	14
104	Size- and Wavelength-Dependent Two-Photon Absorption Cross-Section of CsPbBr ₃ Perovskite Quantum Dots. Journal of Physical Chemistry Letters, 2017, 8, 2316-2321.	2.1	173
105	A Novel Model for Correlation and Predication of the Equilibrium CO 2 Solubility in Seven Tertiary Solvents. Energy Procedia, 2017, 105, 4476-4481.	1.8	6
106	The development of kinetics model for CO ₂ absorption into tertiary amines containing carbonic anhydrase. AICHE Journal, 2017, 63, 4933-4943.	1.8	17
107	Investigation of CO ₂ Regeneration in Single and Blended Amine Solvents with and without Catalyst. Industrial & Engineering Chemistry Research, 2017, 56, 7656-7664.	1.8	75
108	Modeling of CO ₂ equilibrium solubility in a novel 1â€Diethylaminoâ€2â€Propanol Solvent. AICHE Journal, 2017, 63, 4465-4475.	1.8	15

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109	Reaction kinetics of carbon dioxide with aqueous solutions of l-Arginine, Glycine & Sarcosine using the stopped flow technique. International Journal of Greenhouse Gas Control, 2017, 63, 47-58.	2.3	23
110	Kinetics of CO ₂ Adsorption/Desorption of Polyethyleneimineâ€Mesoporous Silica. Chemical Engineering and Technology, 2017, 40, 1802-1809.	0.9	14
111	Thermodynamics and ANN models for predication of the equilibrium CO2 solubility in aqueous 3-dimethylamino-1-propanol solution. International Journal of Greenhouse Gas Control, 2017, 63, 77-85.	2.3	24
112	Reduction of energy requirement of CO2 desorption from a rich CO2-loaded MEA solution by using solid acid catalysts. Applied Energy, 2017, 202, 673-684.	5.1	140
113	Development of Ion Speciation Plots for Three Promising Tertiary Amine–CO ₂ –H ₂ O Systems Using the pH Method and the ¹³ C NMR Method. Energy & Fuels, 2017, 31, 3069-3080.	2.5	7
114	A new model for correlation and prediction of equilibrium CO ₂ solubility in Nâ€methylâ€4â€piperidinol solvent. AICHE Journal, 2017, 63, 3395-3403.	1.8	34
115	Optimized Long-Range Corrected Density Functionals for Electronic and Optical Properties of Bare and Ligated CdSe Quantum Dots. Journal of Chemical Theory and Computation, 2017, 13, 110-116.	2.3	7
116	The analysis of solubility, absorption kinetics of CO ₂ absorption into aqueous 1â€diethylaminoâ€2â€propanol solution. AICHE Journal, 2017, 63, 2694-2704.	1.8	40
117	The effect of site-specific spectral densities on the high-dimensional exciton-vibrational dynamics in the FMO complex. Chemical Physics, 2017, 497, 10-16.	0.9	9
118	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.	5.1	123
119	Toward Efficient CO ₂ Capture Solvent Design by Analyzing the Effect of Chain Lengths and Amino Types to the Absorption Capacity, Bicarbonate/Carbamate, and Cyclic Capacity. Energy & Fuels, 2017, 31, 11099-11108.	2.5	38
120	PdZn nanoparticle electrocatalysts synthesized by solution combustion for methanol oxidation reaction in an alkaline medium. RSC Advances, 2017, 7, 42709-42717.	1.7	22
121	Analysis of CO2 Solubility and Absorption Heat into Aqueous 1-Diethylamino-2-propanol. Energy Procedia, 2017, 114, 873-879.	1.8	Ο
122	Regeneration Energy Analysis of Aqueous Tri–Solvent Blends Containing 2–Amino–2–Methyl–1–Propanol (AMP), Methyldiethanolamine (MDEA) and Diethylenetriamine (DETA) for Carbon Dioxide (CO2) Capture. Energy Procedia, 2017, 114, 2039-2046.	1.8	17
123	Multilayer-MCTDH approach to the energy transfer dynamics in the LH2 antenna complex. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 184001.	0.6	21
124	Experimental Studies on the Effect of Tertiary Amine Promoters in Aqueous Monoethanolamine (MEA) Solutions on the Absorption/Stripping Performances in Post-combustion CO ₂ Capture. Energy & Fuels, 2017, 31, 13883-13891.	2.5	48
125	Study of Ion Speciation of CO ₂ Absorption into Aqueous 1-Dimethylamino-2-propanol Solution Using the NMR Technique. Industrial & Engineering Chemistry Research, 2017, 56, 8697-8704.	1.8	4
126	A comprehensive review of electrocoagulation for water treatment: Potentials and challenges. Journal of Environmental Management, 2017, 186, 24-41.	3.8	565

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127	Corrosion Behavior of API X100 Steel Material in a Hydrogen Sulfide Environment. Metals, 2017, 7, 109.	1.0	17
128	An Experimental and Kinetic Study of the Sorption of Carbon Dioxide onto Amine-Treated Oil Fly Ash. Journal of Chemistry, 2016, 2016, 1-11.	0.9	8
129	Experimental study on the solvent regeneration of a CO ₂ â€loaded MEA solution using single and hybrid solid acid catalysts. AICHE Journal, 2016, 62, 753-765.	1.8	115
130	Multi-layer multi-configuration time-dependent Hartree (ML-MCTDH) approach to the correlated exciton-vibrational dynamics in the FMO complex. Journal of Chemical Physics, 2016, 144, 185101.	1.2	72
131	Reaction kinetics of carbon dioxide in aqueous blends of N-methyldiethanolamine and glycine using the stopped flow technique. Journal of Natural Gas Science and Engineering, 2016, 33, 186-195.	2.1	20
132	Cobalt oxide nanopowder synthesis using cellulose assisted combustion technique. Ceramics International, 2016, 42, 12771-12777.	2.3	43
133	Evaluation of Different Factors on Enhanced Oil Recovery of Heavy Oil Using Different Alkali Solutions. Energy & Fuels, 2016, 30, 3860-3869.	2.5	33
134	Ceramic membrane filtration of produced water: Impact of membrane module. Separation and Purification Technology, 2016, 165, 214-221.	3.9	73
135	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, 2016, 167, 97-107.	3.9	82
136	Catalytic evaluation of nickel nanoparticles inÂmethane steam reforming. International Journal of Hydrogen Energy, 2016, 41, 22876-22885.	3.8	52
137	Linear dynamics modelling of droplet deformation in a pulsatile electric field. Chemical Engineering Research and Design, 2016, 114, 162-170.	2.7	16
138	Photo-stability of CsPbBr3 perovskite quantum dots for optoelectronic application. Science China Materials, 2016, 59, 719-727.	3.5	201
139	Effect of Amine Activators on Aqueous <i>N</i> , <i>N</i> -Diethylethanolamine Solution for Postcombustion CO ₂ Capture. Energy & Fuels, 2016, 30, 7481-7488.	2.5	32
140	Experimental Study of Regeneration Performance of Aqueous <i>N</i> , <i>N</i> -Diethylethanolamine Solution in a Column Packed with Dixon Ring Random Packing. Industrial & Engineering Chemistry Research, 2016, 55, 8519-8526.	1.8	18
141	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). International Journal of Greenhouse Gas Control, 2016, 53, 292-304.	2.3	88
142	Thermodynamic investigation of hydrogen enrichment and carbon suppression using chemical additives in ethanol dry reforming. International Journal of Hydrogen Energy, 2016, 41, 15149-15157.	3.8	23
143	Intercalation of ionic liquids into bentonite: Swelling and rheological behaviors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 507, 141-151.	2.3	44
144	Analysis of partial electrocoalescence by Level-Set and finite element methods. Chemical Engineering Research and Design, 2016, 114, 180-189.	2.7	32

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145	Hot electron and hole dynamics in thiol-capped CdSe quantum dots revealed by 2D electronic spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 26199-26204.	1.3	35
146	Heat transfer enhancement of nanofluids using iron nanoparticles decorated carbon nanotubes. Applied Thermal Engineering, 2016, 107, 1008-1018.	3.0	43
147	Reaction Kinetics of Carbon Dioxide (CO ₂) with Diethylenetriamine and 1-Amino-2-propanol in Nonaqueous Solvents Using Stopped-Flow Technique. Industrial & Engineering Chemistry Research, 2016, 55, 7307-7317.	1.8	24
148	High Excitation Intensity Opens a New Trapping Channel in Organic–Inorganic Hybrid Perovskite Nanoparticles. ACS Energy Letters, 2016, 1, 1154-1161.	8.8	81
149	A study of structure–activity relationships of commercial tertiary amines for post-combustion CO2 capture. Applied Energy, 2016, 184, 219-229.	5.1	135
150	Direct Experimental Evidence for Photoinduced Strong-Coupling Polarons in Organolead Halide Perovskite Nanoparticles. Journal of Physical Chemistry Letters, 2016, 7, 4535-4539.	2.1	49
151	Surface plasmon inhibited photo-luminescence activation in CdSe/ZnS core–shell quantum dots. Journal of Physics Condensed Matter, 2016, 28, 254001.	0.7	6
152	Carbon dioxide (CO2) capture: Absorption-desorption capabilities of 2-amino-2-methyl-1-propanol (AMP), piperazine (PZ) and monoethanolamine (MEA) tri-solvent blends. Journal of Natural Gas Science and Engineering, 2016, 33, 742-750.	2.1	122
153	Impact of the Inter- and Intramolecular Tertiary Amino Group on the Primary Amino Group in the CO ₂ Absorption Process. Industrial & Engineering Chemistry Research, 2016, 55, 7210-7217.	1.8	28
154	Trap States and Their Dynamics in Organometal Halide Perovskite Nanoparticles and Bulk Crystals. Journal of Physical Chemistry C, 2016, 120, 3077-3084.	1.5	128
155	In situ DRIFTS Studies on Cu, Ni and CuNi catalysts for Ethanol Decomposition Reaction. Catalysis Letters, 2016, 146, 778-787.	1.4	54
156	Enhancing oil removal from water using ferric oxide nanoparticles doped carbon nanotubes adsorbents. Chemical Engineering Journal, 2016, 293, 90-101.	6.6	148
157	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. Industrial & Engineering Chemistry Research, 2016, 55, 3710-3717.	1.8	60
158	Flocculation and viscoelastic behavior of industrial papermaking suspensions. Korean Journal of Chemical Engineering, 2016, 33, 448-455.	1.2	8
159	Heavy metal removal from aqueous solution by advanced carbon nanotubes: Critical review of adsorption applications. Separation and Purification Technology, 2016, 157, 141-161.	3.9	977
160	Review on current advances, future challenges and consideration issues for post-combustion CO2 capture using amine-based absorbents. Chinese Journal of Chemical Engineering, 2016, 24, 278-288.	1.7	181
161	Comparison of Overall Gasâ€Phase Mass Transfer Coefficient for CO ₂ Absorption between Tertiary Amines in a Randomly Packed Column. Chemical Engineering and Technology, 2015, 38, 1435-1443.	0.9	30
162	Electrocoalescence of water drop trains in oil under constant and pulsatile electric fields. Chemical Engineering Research and Design, 2015, 104, 658-668.	2.7	58

#	Article	IF	CITATIONS
163	Thermodynamic characterization of deepwater natural gas mixtures with heavy hydrocarbon content at high pressures. Journal of Chemical Thermodynamics, 2015, 82, 134-142.	1.0	8
164	Solubility, absorption heat and mass transfer studies of CO2 absorption into aqueous solution of 1-dimethylamino-2-propanol. Fuel, 2015, 144, 121-129.	3.4	82
165	Electrostatic phase separation: A review. Chemical Engineering Research and Design, 2015, 96, 177-195.	2.7	181
166	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.	2.3	403
167	Simulation Studies of Process Improvement of Threeâ€Tower Lowâ€Temperature Distillation Process to Minimize Energy Consumption for Separation of Produced Gas of CO ₂ â€Enhanced Oil Recovery (EOR). Canadian Journal of Chemical Engineering, 2015, 93, 1266-1274.	0.9	1
168	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. Chemical Engineering Journal, 2015, 270, 485-495.	6.6	28
169	Experimental determination of carbamate formation and amine protonation constants in 3-amino-1-propanol–CO2–H2O system and their temperature dependency. International Journal of Greenhouse Gas Control, 2015, 37, 237-242.	2.3	4
170	CO ₂ Sorption Kinetics of Scaled-Up Polyethylenimine-Functionalized Mesoporous Silica Sorbent. Langmuir, 2015, 31, 3569-3576.	1.6	40
171	Demulsification of stable emulsions from produced water using a phase separator with inclined parallel arc coalescing plates. Journal of Petroleum Science and Engineering, 2015, 135, 16-21.	2.1	34
172	Optimization of selection of chain amine scrubbers for CO2 capture. Journal of Molecular Modeling, 2014, 20, 2518.	0.8	9
173	Kinetics of CO ₂ absorption into a novel 1â€diethylaminoâ€2â€propanol solvent using stoppedâ€flow technique. AICHE Journal, 2014, 60, 3502-3510.	1.8	64
174	The size and performance of offshore produced water oil-removal technologies for reinjection. Separation and Purification Technology, 2014, 134, 241-246.	3.9	83
175	CO2 absorption kinetics of 4-diethylamine-2-butanol solvent using stopped-flow technique. Separation and Purification Technology, 2014, 136, 81-87.	3.9	32
176	Comparative studies of heat duty and total equivalent work of a new heat pump distillation with split flow process, and conventional baseline process for CO2 capture using monoethanolamine. International Journal of Greenhouse Gas Control, 2014, 24, 87-97.	2.3	55
177	1D absorption kinetics modeling of CO2–DEAB–H2O system. International Journal of Greenhouse Gas Control, 2013, 12, 390-398.	2.3	21
178	Effects of flue gas composition on carbon steel (1020) corrosion in MEA-based CO2 capture process. International Journal of Greenhouse Gas Control, 2013, 19, 340-349.	2.3	45
179	A novel reactive 4-diethylamino-2-butanol solvent for capturing CO2 in the aspect of absorption capacity, cyclic capacity, mass transfer, and reaction kinetics. Energy Procedia, 2013, 37, 477-484.	1.8	11
180	Experimental study on mass transfer and prediction using artificial neural network for CO2 absorption into aqueous DETA. Chemical Engineering Science, 2013, 100, 195-202.	1.9	81

#	Article	IF	CITATIONS
181	Straightforward and Highly Efficient Synthesis of α-Acetoxy Ketones through Gold-Catalyzed Intermolecular Oxidation of Terminal Alkynes. Synthesis, 2013, 45, 2605-2611.	1.2	12
182	Gold-Catalyzed Intermolecular Oxidation of Terminal Alkynes: Simple and Efficient Synthesis of α-Mesyloxy Ketones. Synlett, 2013, 24, 1809-1812.	1.0	27
183	13C NMR Spectroscopy of a Novel Amine Species in the DEAB–CO2–H2O system: VLE Model. Industrial & Engineering Chemistry Research, 2012, 51, 8608-8615.	1.8	63
184	Part 5b: Solvent chemistry: reaction kinetics of CO ₂ absorption into reactive amine solutions. Carbon Management, 2012, 3, 201-220.	1.2	60
185	Comprehensive mass transfer and reaction kinetics studies of CO2 absorption into aqueous solutions of blended MDEA–MEA. Chemical Engineering Journal, 2012, 209, 501-512.	6.6	125
186	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.	1.2	23
187	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.	1.8	83
188	Synthesis of Bimetallic Pd-Based/Activated Carbon Catalyst by Biomass-Reduction Method for Highly Efficient Hydrogen Storage System Based on CO2/Formate. Industrial & Engineering Chemistry Research, 0, , .	1.8	4
189	Separate H ₂ and CO production from CH ₄ O ₂ cycling of Feâ€Ni. AICHE Journal, 0, , .	1.8	3