

# Chang Ha Lee

## List of Publications by Year in descending order

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318  
papers

9,470  
citations

44444

50  
h-index

81351

76  
g-index

319  
all docs

319  
docs citations

319  
times ranked

9711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Equilibrium adsorption and kinetic study of CO <sub>2</sub> and N <sub>2</sub> on synthesized carbon Blackâ€Zeolite composite. Separation and Purification Technology, 2022, 280, 119917.	3.9	14
2	Sensitivity analysis and artificial neural network-based optimization for low-carbon H <sub>2</sub> production via a sorption-enhanced steam methane reforming (SESMR) process integrated with separation process. International Journal of Hydrogen Energy, 2022, 47, 820-847.	3.8	21
3	Adsorption equilibria and kinetics of CO <sub>2</sub> , CH <sub>4</sub> , CO, N <sub>2</sub> , and H <sub>2</sub> on KOH-treated activated carbon pellets up to 1000âkPa. Chemical Engineering Journal, 2022, 431, 133396.	6.6	16
4	Dynamic modeling and machine learning of commercial-scale simulated moving bed chromatography for application to multi-component normal paraffin separation. Separation and Purification Technology, 2022, 288, 120597.	3.9	4
5	Dynamic CO <sub>2</sub> sorption on MgO-based sorbent in the presence of CO and H <sub>2</sub> O at elevated pressures. Chemical Engineering Journal, 2022, 433, 134607.	6.6	10
6	Prediction of CO <sub>2</sub> capture capability of 0.5âMW MEA demo plant using three different deep learning pipelines. Fuel, 2022, 315, 123229.	3.4	11
7	Performance and sensitivity analysis of packed-column absorption process using multi-amine solvents for post-combustion CO <sub>2</sub> capture. Fuel, 2022, 314, 122768.	3.4	20
8	Exploring the synergistic role of crystal facet and phase at hetero-interface towards light-switchable chemoselective oxidation over bismuth-based catalysts. Journal of Colloid and Interface Science, 2022, 617, 651-662.	5.0	3
9	Uranyl peroxide ((UO <sub>2</sub> )(O <sub>2</sub> )â4H <sub>2</sub> O; UO <sub>4</sub> ) precipitation for uranium sequestering: formation and physicochemical characterization. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 2495-2501.	0.7	3
10	Overview of Carbon Monoxide Adsorption Performance of Pristine and Modified Adsorbents. Journal of Chemical & Engineering Data, 2022, 67, 1599-1616.	1.0	15
11	Pre-combustion CO <sub>2</sub> capture using amine-based absorption process for blue H <sub>2</sub> production from steam methane reformer. Energy Conversion and Management, 2022, 262, 115632.	4.4	19
12	Efficient removal of 2-chloroethyl ethyl sulfide in solution under solar light by magnesium oxide-decorated polymeric carbon nitride photocatalysts and mechanism investigation. Environmental Advances, 2022, 9, 100255.	2.2	4
13	Facile and Accurate Calculation of the Density of Amino Acid Salt Solutions: A Simple and General Correlation vs Artificial Neural Networks. Energy & Fuels, 2022, 36, 7661-7675.	2.5	6
14	Parallel and series multi-bed pressure swing adsorption processes for H <sub>2</sub> recovery from a lean hydrogen mixture. Chemical Engineering Journal, 2021, 408, 127299.	6.6	48
15	Revisiting magnesium oxide to boost hydrogen production via water-gas shift reaction: Mechanistic study to economic evaluation. Applied Catalysis B: Environmental, 2021, 284, 119701.	10.8	20
16	Performance and dynamic behavior of sorption-enhanced water-gas shift reaction in a fluidized bed reactor for H <sub>2</sub> production and CO <sub>2</sub> capture. Chemical Engineering Journal, 2021, 410, 127414.	6.6	17
17	EstaneâAssisted Preparation of Submicron ÎForm HMX Particles through Antisolvent Crystallization. Propellants, Explosives, Pyrotechnics, 2021, 46, 944-949.	1.0	1
18	Separation of propane and propylene by desorbent swing adsorption using zeolite 13X and carbon dioxide. Chemical Engineering Journal, 2021, 410, 128276.	6.6	13

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19	Reaction of drilled-cores from the Janggi basin with CO <sub>2</sub> -saturated brine from subcritical to supercritical condition of CO <sub>2</sub> : Implications on sequestration of dissolved CO <sub>2</sub> . Journal of Natural Gas Science and Engineering, 2021, 88, 103804.	2.1	6
20	Deep reinforcement learning optimization framework for a power generation plant considering performance and environmental issues. Journal of Cleaner Production, 2021, 291, 125915.	4.6	18
21	Artificial neural network modelling for solubility of carbon dioxide in various aqueous solutions from pure water to brine. Journal of CO <sub>2</sub> Utilization, 2021, 47, 101500.	3.3	12
22	High-purity hydrogen production via a water-gas-shift reaction in a palladium-copper catalytic membrane reactor integrated with pressure swing adsorption. Chemical Engineering Journal, 2021, 411, 128473.	6.6	49
23	Actor-critic reinforcement learning to estimate the optimal operating conditions of the hydrocracking process. Computers and Chemical Engineering, 2021, 149, 107280.	2.0	17
24	Densities and Viscosities of Binary and Ternary Solutions of Triethylenetetramine, 2-Amino-2-methyl-1-propanol, and Water for Carbon Dioxide Capture. Journal of Chemical & Engineering Data, 2021, 66, 2942-2958.	1.0	7
25	Sorption equilibria, kinetics, and temperature-swing adsorption performance of polyethyleneimine-impregnated silica for post-combustion carbon dioxide capture. Separation and Purification Technology, 2021, 266, 118582.	3.9	11
26	Enhanced oxygen mobility of nonreducible MgO-supported Cu catalyst by defect engineering for improving the water-gas shift reaction. Journal of Catalysis, 2021, 400, 195-211.	3.1	15
27	Feasibility study on the volume reduction of radioactive concrete wastes using thermomechanical and chemical sequential process. Journal of Environmental Chemical Engineering, 2021, 9, 105742.	3.3	5
28	Sensitivity analysis of mass transfer and enhancement factor correlations for the absorption of CO <sub>2</sub> in a Sulzer DX packed column using 4-diethylamino-2-butanol (DEAB) solution. Separation and Purification Technology, 2021, 268, 118696.	3.9	4
29	Performance and Cost Analysis of Natural Gas Combined Cycle Plants with Chemical Looping Combustion. ACS Omega, 2021, 6, 21043-21058.	1.6	7
30	Role of Ultra-micropores in CO <sub>2</sub> Adsorption on Highly Durable Resin-Based Activated Carbon Beads by Potassium Hydroxide Activation. Industrial & Engineering Chemistry Research, 2021, 60, 14547-14563.	1.8	8
31	Efficient solar light facilitated photo-oxidative detoxification of gaseous 2-chloroethyl ethyl sulfide on ZrO <sub>2</sub> -doped g-C <sub>3</sub> N <sub>4</sub> under dry and humid air. Chemosphere, 2021, 280, 130685.	4.2	18
32	Dynamic model and performance of an integrated sorption-enhanced steam methane reforming process with separators for the simultaneous blue H <sub>2</sub> production and CO <sub>2</sub> capture. Chemical Engineering Journal, 2021, 423, 130044.	6.6	16
33	RISM-assisted analysis of role of alkali metal hydroxides in the solvation of cellulose in alkali/urea aqueous solutions. Cellulose, 2021, 28, 11247-11259.	2.4	0
34	Sensitivity analysis of CO <sub>2</sub> capture process in cyclic fluidized-bed with regeneration of solid sorbent. Chemical Engineering Journal, 2020, 379, 122291.	6.6	21
35	Effect of surfactants on CO <sub>2</sub> solubility and reaction in CO <sub>2</sub> -brine-clay mineral systems during CO <sub>2</sub> -enhanced fossil fuel recovery. Chemical Engineering Journal, 2020, 382, 123014.	6.6	15
36	Alkyl-functionalization of (3-Aminopropyl)triethoxysilane-grafted zeolite beta for carbon dioxide capture in temperature swing adsorption. Chemical Engineering Journal, 2020, 382, 122834.	6.6	27

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37	Software Platform for Computation Fluid Dynamics Simulation of Mixing and Crystallization in a Stirred Vessel. <i>Crystal Growth and Design</i> , 2020, 20, 1172-1185.	1.4	6
38	Prediction of CO <sub>2</sub> solubility in multicomponent electrolyte solutions up to 709â€bar: Analogical bridge between hydrophobic solvation and adsorption model. <i>Chemical Engineering Journal</i> , 2020, 389, 123459.	6.6	5
39	Effects of the mobile phase on the chromatographic separation of l-lysine and 5-aminovaleric acid. <i>Microchemical Journal</i> , 2020, 152, 104369.	2.3	6
40	Correlation between fixation of high-concentration CO <sub>2</sub> and glutamate accumulation in <i>Sulfurovum lithotrophicum</i> 42BKTT. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 92, 56-61.	2.9	1
41	Adsorption equilibria and kinetics of silica gel for N <sub>2</sub> O, O <sub>2</sub> , N <sub>2</sub> , and CO <sub>2</sub> . <i>Separation and Purification Technology</i> , 2020, 251, 117326.	3.9	17
42	Thermodynamic analysis of cellulose complex in NaOHâ€urea solution using reference interaction site model. <i>Cellulose</i> , 2020, 27, 6767-6775.	2.4	6
43	Unusual morphology transformation and basicity of magnesium oxide controlled by ageing conditions and its carbon dioxide adsorption. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 41, 101273.	3.3	11
44	CO <sub>2</sub> adsorption by conventional and nanosized zeolites. , 2020, , 193-228.		15
45	Kinetics of CO <sub>2</sub> fixation by <i>Sulfurovum lithotrophicum</i> 42BKTT: Medium optimization and tolerance of CO <sub>2</sub> toxicity. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104428.	3.3	0
46	Enhancement of energy efficiency by exhaust gas recirculation with oxygen-rich combustion in a natural gas combined cycle with a carbon capture process. <i>Energy</i> , 2020, 200, 117586.	4.5	27
47	Nitrification stability and membrane performance under different water permeation intensity of an osmotic membrane bioreactor. <i>International Biodeterioration and Biodegradation</i> , 2020, 150, 104962.	1.9	4
48	Dynamic-model-based artificial neural network for H <sub>2</sub> recovery and CO <sub>2</sub> capture from hydrogen tail gas. <i>Applied Energy</i> , 2020, 273, 115263.	5.1	46
49	Techno-economic analysis of advanced stripper configurations for post-combustion CO <sub>2</sub> capture amine processes. <i>Energy</i> , 2020, 206, 118164.	4.5	46
50	Prediction of SO <sub>x</sub> â€NO <sub>x</sub> emission from a coal-fired CFB power plant with machine learning: Plant data learned by deep neural network and least square support vector machine. <i>Journal of Cleaner Production</i> , 2020, 270, 122310.	4.6	96
51	Experimental and Simulation Study on CO <sub>2</sub> Adsorption Dynamics of a Zeolite 13X Column during Blowdown and Pressurization: Implications of Scaleup on CO <sub>2</sub> Capture Vacuum Swing Adsorption Cycle. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 6053-6064.	1.8	17
52	CFD simulation of a packed bed industrial absorber with interbed liquid distributors. <i>International Journal of Greenhouse Gas Control</i> , 2020, 95, 102983.	2.3	18
53	Adsorption mechanism of methyl iodide by triethylenediamine and quinuclidine-impregnated activated carbons at extremely low pressures. <i>Chemical Engineering Journal</i> , 2020, 396, 125215.	6.6	19
54	Synthesis of Nano-Flakes Agâ€ZnOâ€Activated Carbon Composite from Rice Husk as A Photocatalyst under Solar Light. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2020, 15, 264-279.	0.5	13

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55	Adsorption equilibria and kinetics of propane and propylene on zeolite 13X pellets. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 286-298.	2.2	25
56	Hydrodesulfurization via heat exchanger network synthesis for ultra-low-sulfur diesel. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1226-1234.	1.2	2
57	Experimental and theoretical investigation of equilibrium absorption performance of CO <sub>2</sub> using a mixed 1-dimethylamino-2-propanol (1DMA2P) and monoethanolamine (MEA) solution. <i>Fuel</i> , 2019, 256, 115877.	3.4	26
58	Adsorption Equilibria of Water Vapor on Surface-Modified Activated Carbons and Alumina. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 4834-4843.	1.0	10
59	Synthesis of mesoporous MgO@CeO <sub>2</sub> composites with enhanced CO <sub>2</sub> capture rate via controlled combustion. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109587.	2.2	25
60	Performance evaluation and carbon assessment of IGCC power plant with coal quality. <i>Energy</i> , 2019, 188, 116063.	4.5	25
61	Combined approach using mathematical modelling and artificial neural network for chemical industries: Steam methane reformer. <i>Applied Energy</i> , 2019, 255, 113809.	5.1	56
62	Performance analysis and carbon reduction assessment of an integrated syngas purification process for the co-production of hydrogen and power in an integrated gasification combined cycle plant. <i>Energy</i> , 2019, 171, 910-927.	4.5	35
63	Adsorptive removal of gaseous methyl iodide by triethylenediamine (TEDA)-metal impregnated activated carbons under humid conditions. <i>Journal of Hazardous Materials</i> , 2019, 368, 550-559.	6.5	32
64	Preparation of mesoporous Fe <sub>2</sub> O <sub>3</sub> @SiO <sub>2</sub> composite from rice husk as an efficient heterogeneous Fenton-like catalyst for degradation of organic dyes. <i>Journal of Water Process Engineering</i> , 2019, 28, 169-180.	2.6	66
65	Design of highly efficient adsorbents for removal of gaseous methyl iodide using tertiary amine-impregnated activated carbon: Integrated experimental and first-principles approach. <i>Chemical Engineering Journal</i> , 2019, 373, 1003-1011.	6.6	27
66	Equilibrium and kinetics of nitrous oxide, oxygen and nitrogen adsorption on activated carbon and carbon molecular sieve. <i>Separation and Purification Technology</i> , 2019, 223, 63-80.	3.9	43
67	Palladium-copper membrane modules for hydrogen separation at elevated temperature and pressure. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 563-572.	1.2	8
68	Dynamic modeling of a dual fluidized-bed system with the circulation of dry sorbent for CO <sub>2</sub> capture. <i>Applied Energy</i> , 2019, 241, 640-651.	5.1	29
69	Efficient conversion of extra-heavy oil into distillates using tetralin/activated carbon in a continuous reactor at elevated temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 140, 245-254.	2.6	6
70	Direct formation of hierarchically porous MgO-based sorbent bead for enhanced CO <sub>2</sub> capture at intermediate temperatures. <i>Chemical Engineering Journal</i> , 2019, 371, 64-77.	6.6	47
71	Thermodynamic modelling of CO <sub>2</sub> absorption into aqueous solutions of 2-diethylaminoethanol, piperazine, and blended diethylaminoethanol with piperazine. <i>Fluid Phase Equilibria</i> , 2019, 493, 26-35.	1.4	15
72	Continuous bubble reactor using carbon dioxide and its mixtures for ballast water treatment. <i>Water Research</i> , 2019, 154, 316-326.	5.3	7

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73	Equilibrium Adsorption Study of CO <sub>2</sub> and N <sub>2</sub> on Synthesized Zeolites 13X, 4A, 5A, and Beta. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 5648-5664.	1.0	47
74	Scale-Up of a Semi-Batch Draft Tube Baffled Crystallizer for Hexanitrohexaazaisowurtzitane Based on Experiments and Computational Fluid Dynamics Simulation. <i>Crystal Growth and Design</i> , 2019, 19, 658-671.	1.4	13
75	Simulation and analysis of vacuum pressure swing adsorption using the differential quadrature method. <i>Computers and Chemical Engineering</i> , 2019, 121, 483-496.	2.0	15
76	Adsorption equilibria and kinetics of CO <sub>2</sub> , CO, and N <sub>2</sub> on carbon molecular sieve. <i>Separation and Purification Technology</i> , 2019, 212, 952-964.	3.9	44
77	Adsorption characteristics of benzene on resin-based activated carbon under humid conditions. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 242-249.	2.9	35
78	Fabrication and kinetic study of spherical MgO agglomerates via water-in-oil method for pre-combustion CO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , 2019, 359, 285-297.	6.6	34
79	Dissolution and reaction in a CO <sub>2</sub> -brine-clay mineral particle system under geological CO <sub>2</sub> sequestration from subcritical to supercritical conditions. <i>Chemical Engineering Journal</i> , 2018, 347, 1-11.	6.6	24
80	Preparation of graphene hollow spheres from vacuum residue of ultra-heavy oil as an effective oxygen electrode for Li-O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4040-4047.	5.2	18
81	Upgrading of petroleum vacuum residue using a hydrogen-donor solvent with acid-treated carbon. <i>Energy Conversion and Management</i> , 2018, 161, 234-242.	4.4	29
82	CFD Simulation of a Drowning-out Crystallizer for Hexanitrohexaazaisowurtzitane. <i>Chemical Engineering and Technology</i> , 2018, 41, 1226-1235.	0.9	4
83	Facile synthesis of hierarchically porous MgO sorbent doped with CaCO <sub>3</sub> for fast CO <sub>2</sub> capture in rapid intermediate temperature swing sorption. <i>Chemical Engineering Journal</i> , 2018, 334, 1605-1613.	6.6	52
84	An experimental and modeling study of CO <sub>2</sub> solubility in a 2-amino-2-methyl-1-propanol (AMP)-N-methyl-2-pyrrolidone (NMP) solution. <i>Chemical Engineering Science</i> , 2018, 175, 365-376.	1.9	35
85	CO <sub>2</sub> fixation stability by <i>Sulfurovum lithotrophicum</i> 42BKT T depending on pH and ionic strength conditions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 57, 72-76.	2.9	5
86	Performance analysis of an eight-layered bed PSA process for H <sub>2</sub> recovery from IGCC with pre-combustion carbon capture. <i>Energy Conversion and Management</i> , 2018, 156, 202-214.	4.4	49
87	Preparation of rod-like MgO by simple precipitation method for CO <sub>2</sub> capture at ambient temperature. <i>Vietnam Journal of Chemistry</i> , 2018, 56, 197-202.	0.7	15
88	Sorption Equilibria and Kinetics of CO <sub>2</sub> , N <sub>2</sub> , and H <sub>2</sub> O on KOH-Treated Activated Carbon. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 17218-17225.	1.8	15
89	Effects of salinity on nitrification efficiency and bacterial community structure in a nitrifying osmotic membrane bioreactor. <i>Process Biochemistry</i> , 2018, 73, 132-141.	1.8	41
90	Thermodynamic modelling using e-UNIQUAC model for CO <sub>2</sub> absorption by novel amine solutions: 1-Dimethylamino-2-propanol (1DMA2P), 3-dimethylamino-1-propanol (3DMA1P) and 4-diethylamino-2-butanol (DEAB). <i>Fluid Phase Equilibria</i> , 2018, 473, 50-69.	1.4	14

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91	Adsorption Equilibria of Water Vapor on an Alumina/Zeolite 13X Composite and Silica Gel. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 804-811.	1.0	32
92	Role of Anhydride in the Ketonization of Carboxylic Acid: Kinetic Study on Dimerization of Hexanoic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 872-880.	1.8	10
93	Catalytic effects of calcium and potassium on a curved char surface in fuel reburning: A first-principles study on the adsorption of nitric oxide on single-wall carbon nanotubes with metal decoration. <i>Energy</i> , 2017, 125, 459-469.	4.5	13
94	Separation of Carbon Dioxide and Methane Mixture by an Adsorbent/Membrane Hybrid System Using Zeolite 5A Pellets and FAU-Zeolite Membrane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 2582-2591.	1.8	13
95	Evaluation of the energy efficiency of the shell coal gasification process by coal type. <i>Energy Conversion and Management</i> , 2017, 143, 123-136.	4.4	56
96	Kinetic effects of methane on binary mixture separation on methyltriethoxysilane templated silica membranes. <i>Separation and Purification Technology</i> , 2017, 182, 151-159.	3.9	9
97	Sorption capacity and stability of mesoporous magnesium oxide in post-combustion CO <sub>2</sub> capture. <i>Materials Chemistry and Physics</i> , 2017, 198, 154-161.	2.0	40
98	Performance, economic and exergy analyses of carbon capture processes for a 300MW class integrated gasification combined cycle power plant. <i>Energy</i> , 2017, 134, 731-742.	4.5	38
99	Morphology control of mesoporous Cu <sub>2</sub> O by reductants and its photocatalytic activity. <i>Ceramics International</i> , 2017, 43, 8222-8229.	2.3	18
100	Analysis of thermal parameter effects on an adsorption bed for purification and bulk separation. <i>Separation and Purification Technology</i> , 2017, 181, 95-106.	3.9	27
101	Liquefaction of oil palm empty fruit bunch using sub- and supercritical tetralin, n-dodecane, and their mixture. <i>Fuel</i> , 2017, 208, 184-192.	3.4	18
102	Extraction-based recovery of RDX from obsolete Composition B. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 56, 394-398.	2.9	5
103	Co-processing of heavy oil with wood biomass using supercritical m-xylene and n-dodecane solvents. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1961-1969.	1.2	9
104	Advanced Operating Strategies to Extend the Applications of Simulated Moving Bed Chromatography. <i>Chemical Engineering and Technology</i> , 2017, 40, 2163-2178.	0.9	42
105	Salt-Composition-Controlled Precipitation of Triple-Salt-Promoted MgO with Enhanced CO <sub>2</sub> Sorption Rate and Working Capacity. <i>Energy &amp; Fuels</i> , 2017, 31, 9725-9735.	2.5	27
106	Adsorptive cyclic purification process for CO <sub>2</sub> mixtures captured from coal power plants. <i>AIChE Journal</i> , 2017, 63, 1051-1063.	1.8	25
107	Performance Analysis on an Entrained-Flow Gasifier by Coal Moisture. <i>Chemical Engineering and Technology</i> , 2017, 40, 2257-2265.	0.9	4
108	Immobilized culture of <i>Sulfurovum lithotrophicum</i> 42BKT T in polyurethane foam cubes. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 39, 176-180.	2.9	4

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109	High-performance strategy of a simulated moving bed chromatography by simultaneous control of product and feed streams under maximum allowable pressure drop. <i>Journal of Chromatography A</i> , 2016, 1471, 102-117.	1.8	19
110	Selective Ring Opening of 1-Methylnaphthalene Over NiW-Supported Catalyst Using Dealuminated Beta Zeolite. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 1715-1719.	0.9	8
111	A parameter study for co-processing of petroleum vacuum residue and oil palm empty fruit bunch fiber using supercritical tetralin and decalin. <i>Fuel</i> , 2016, 181, 895-904.	3.4	15
112	Combined operation of outlet streams swing with partial-feed in a simulated moving bed. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1059-1069.	1.2	7
113	Effect of different physical conditions on fouling control in in-situ chemical cleaning in place (CIP) for flat sheet membranes fouled by secondary effluents. <i>Chemical Engineering Journal</i> , 2016, 302, 128-136.	6.6	16
114	Adsorption behaviors of CO <sub>2</sub> and CH <sub>4</sub> on zeolites JSR and NanJSR using the GCMC simulations. <i>Adsorption</i> , 2016, 22, 1065-1073.	1.4	7
115	H <sub>2</sub> pressure swing adsorption for high pressure syngas from an integrated gasification combined cycle with a carbon capture process. <i>Applied Energy</i> , 2016, 183, 760-774.	5.1	94
116	Integration of forward osmosis process and a continuous airlift nitrifying bioreactor containing PVA/alginate-immobilized cells. <i>Chemical Engineering Journal</i> , 2016, 306, 1212-1222.	6.6	33
117	The Effect of K and Acidity of NiW-Loaded HY Zeolite Catalyst for Selective Ring Opening of 1-Methylnaphthalene. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4335-4341.	0.9	5
118	The effects of physical cleaning and chemical backwashing on foulant formation in a microfiltration membrane intended for the reuse of wastewater. <i>Desalination and Water Treatment</i> , 2016, 57, 26586-26594.	1.0	0
119	Fuel characteristics of molasses-impregnated low-rank coal produced in a top-spray fluidized-bed reactor. <i>Drying Technology</i> , 2016, 34, 1095-1106.	1.7	3
120	Double sodium salt-promoted mesoporous MgO sorbent with high CO <sub>2</sub> sorption capacity at intermediate temperatures under dry and wet conditions. <i>Chemical Engineering Journal</i> , 2016, 291, 161-173.	6.6	76
121	Adsorption equilibria and kinetics of six pure gases on pelletized zeolite 13X up to 1.0 MPa: CO <sub>2</sub> , CO, N <sub>2</sub> , CH <sub>4</sub> , Ar and H <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2016, 292, 348-365.	6.6	132
122	Adsorption Equilibria of Water Vapor on Zeolite 3A, Zeolite 13X, and Dealuminated Y Zeolite. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 1547-1554.	1.0	85
123	Removal of gaseous sulfur and phosphorus compounds by carbon-coated porous magnesium oxide composites. <i>Chemical Engineering Journal</i> , 2016, 283, 1234-1243.	6.6	40
124	Biofixation of a high-concentration of carbon dioxide using a deep-sea bacterium: <i>Sulfurovum lithotrophicum</i> 42BKT <sup>T</sup> . <i>RSC Advances</i> , 2015, 5, 7151-7159.	1.7	21
125	Ring Opening of Naphthenic Molecules Over Metal Containing Mesoporous Y Zeolite Catalyst. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5334-5337.	0.9	7
126	Application of the extended DLVO approach to mechanistically study the algal flocculation. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 30, 289-294.	2.9	14



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127	Adsorption breakthrough dynamics of zeolites for ethylene recovery from fluid catalytic cracking fuel-gas. Korean Journal of Chemical Engineering, 2015, 32, 808-815.	1.2	7
128	Mesoporous magnesium oxide and its composites: Preparation, characterization, and removal of 2-chloroethyl ethyl sulfide. Chemical Engineering Journal, 2015, 269, 82-93.	6.6	69
129	Effects of a malfunctional column on conventional and FeedCol-simulated moving bed chromatography performance. Journal of Chromatography A, 2015, 1403, 104-117.	1.8	6
130	New momentum and energy balance equations considering kinetic energy effect for mathematical modelling of a fixed bed adsorption column. Adsorption, 2015, 21, 353-363.	1.4	17
131	Thermochemical Decomposition of Microcrystalline Cellulose Using Sub- and Supercritical Tetralin and Decalin with Fe <sub>3</sub> O <sub>4</sub> . Industrial & Engineering Chemistry Research, 2015, 54, 5184-5194.	1.8	10
132	Preparation of nano-magnetite impregnated mesocellular foam composite with a Cu ligand for His-tagged enzyme immobilization. Chemical Engineering Journal, 2015, 274, 1-8.	6.6	22
133	Parametric Study for Upgrading Petroleum Vacuum Residue Using Supercriticalm-Xylene andn-Dodecane Solvents. Energy & Fuels, 2015, 29, 2319-2328.	2.5	11
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