

# Chang Ha Lee

## List of Publications by Year in descending order

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318  
papers

9,470  
citations

38742

50  
h-index

71685

76  
g-index

319  
all docs

319  
docs citations

319  
times ranked

8579  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Catalytic carbon monoxide oxidation over CoOx/CeO <sub>2</sub> composite catalysts. Applied Catalysis A: General, 2003, 251, 143-156.  | 4.3  | 281       |
| 2  | Adsorption Equilibria of CO <sub>2</sub> on Zeolite 13X and Zeolite X/Activated Carbon Composite. Journal of Chemical & Engineering Data, 2002, 47, 1237-1242.   | 1.9  | 231       |
| 3  | Kinetics of gold nanoparticle aggregation: Experiments and modeling. Journal of Colloid and Interface Science, 2008, 318, 238-243.   | 9.4  | 206       |
| 4  | Sorption kinetics of eight gases on a carbon molecular sieve at elevated pressure. Carbon, 2005, 43, 95-107.   | 10.3 | 167       |
| 5  | Immobilization of lipase on hydrophobic nano-sized magnetite particles. Journal of Molecular Catalysis B: Enzymatic, 2009, 57, 62-66.  | 1.8  | 152       |
| 6  | Adsorption dynamics of a layered bed PSA for H <sub>2</sub> recovery from coke oven gas. AIChE Journal, 1998, 44, 1325-1334.   | 3.6  | 135       |
| 7  | 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> . Chemical Engineering Journal, 2016, 292, 348-365.                         | 12.7 | 132       |
| 8  | Layered two- and four-bed PSA processes for H <sub>2</sub> recovery from coal gas. Chemical Engineering Science, 2012, 68, 413-423.  | 3.8  | 124       |
| 9  | Adsorption isotherms of CO <sub>2</sub> , CO, N <sub>2</sub> , CH <sub>4</sub> , Ar and H <sub>2</sub> on activated carbon and zeolite LiX up to 1.0 MPa. Adsorption, 2014, 20, 631-647.   | 3.0  | 121       |
| 10 | Separation of SF <sub>6</sub> from SF <sub>6</sub> /N <sub>2</sub> mixture using metal-organic framework MIL-100(Fe) granule. Chemical Engineering Journal, 2015, 262, 683-690.  | 12.7 | 120       |
| 11 | Adsorption Equilibria of Water Vapor on Alumina, Zeolite 13X, and a Zeolite X/Activated Carbon Composite. Journal of Chemical & Engineering Data, 2003, 48, 137-141.   | 1.9  | 112       |
| 12 | Mesoporous MgO sorbent promoted with KNO <sub>3</sub> for CO <sub>2</sub> capture at intermediate temperatures. Chemical Engineering Journal, 2014, 258, 254-264.  | 12.7 | 110       |
| 13 | Adsorptive Desulfurization and Denitrogenation of Refinery Fuels Using Mesoporous Silica Adsorbents. ChemSusChem, 2008, 1, 307-309.  | 6.8  | 107       |
| 14 | Separation of Hydrogen Mixtures by a Two-Bed Pressure Swing Adsorption Process Using Zeolite 5A. Industrial & Engineering Chemistry Research, 1997, 36, 2789-2798.   | 3.7  | 102       |
| 15 | Prediction of SO <sub>x</sub> and 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. Journal of Cleaner Production, 2020, 270, 122310. | 9.3  | 96        |
| 16 | H <sub>2</sub> pressure swing adsorption for high pressure syngas from an integrated gasification combined cycle with a carbon capture process. Applied Energy, 2016, 183, 760-774.  | 10.1 | 94        |
| 17 | Kinetic Separation of Landfill Gas by a Two-Bed Pressure Swing Adsorption Process Packed with Carbon Molecular Sieve: A Nonisothermal Operation. Industrial & Engineering Chemistry Research, 2006, 45, 5050-5058.                                       | 3.7  | 91        |
| 18 | Enhancing the organic dye adsorption on porous xerogels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 240, 157-164.   | 4.7  | 88        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Pressure swing adsorption processes to purify oxygen using a carbon molecular sieve. <i>Chemical Engineering Science</i> , 2005, 60, 869-882.  | 3.8  | 87        |
| 20 | 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.  | 1.9  | 85        |
| 21 | Dynamic modeling of Shell entrained flow gasifier in an integrated gasification combined cycle process. <i>Applied Energy</i> , 2014, 131, 425-440.  | 10.1 | 83        |
| 22 | Adsorption Characteristics of Hydrogen Mixtures in a Layered Bed: Binary, Ternary, and Five-Component Mixtures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2001, 40, 868-878.  | 3.7  | 82        |
| 23 | Sorption equilibrium and kinetics of CO <sub>2</sub> on clay minerals from subcritical to supercritical conditions: CO <sub>2</sub> sequestration at nanoscale interfaces. <i>Chemical Engineering Journal</i> , 2014, 255, 705-715. | 12.7 | 81        |
| 24 | Adsorption characteristics of CO <sub>2</sub> and CH <sub>4</sub> on dry and wet coal from subcritical to supercritical conditions. <i>Chemical Engineering Journal</i> , 2011, 171, 45-53.  | 12.7 | 79        |
| 25 | Process simulation and thermodynamic analysis of an IGCC (integrated gasification combined cycle) plant with an entrained coal gasifier. <i>Energy</i> , 2014, 64, 58-68.  | 8.8  | 78        |
| 26 | Effects of capillary condensation on adsorption and thermal desorption dynamics of water in zeolite 13X and layered beds. <i>Chemical Engineering Science</i> , 2004, 59, 2727-2743.   | 3.8  | 77        |
| 27 | 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.                  | 12.7 | 76        |
| 28 | Effects of carbon-to-zeolite ratio on layered bed H <sub>2</sub> PSA for coke oven gas. <i>AIChE Journal</i> , 1999, 45, 535-545.  | 3.6  | 72        |
| 29 | Partial-discard strategy for obtaining high purity products using simulated moving bed chromatography. <i>Journal of Chromatography A</i> , 2006, 1122, 161-173.   | 3.7  | 71        |
| 30 | Catalytic production of hydrogen through aqueous-phase reforming over platinum/ordered mesoporous carbon catalysts. <i>Green Chemistry</i> , 2011, 13, 1718.   | 9.0  | 71        |
| 31 | Amino acid-coated nano-sized magnetite particles prepared by two-step transformation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 273, 75-83.  | 4.7  | 69        |
| 32 | Mesoporous magnesium oxide and its composites: Preparation, characterization, and removal of 2-chloroethyl ethyl sulfide. <i>Chemical Engineering Journal</i> , 2015, 269, 82-93.  | 12.7 | 69        |
| 33 | Denitrogenation of raw diesel fuel by lithium-modified mesoporous silica. <i>Chemical Engineering Journal</i> , 2010, 162, 649-655.  | 12.7 | 68        |
| 34 | Effect of heat treatment of activated carbon supports on the loading and activity of Pt catalyst. <i>Carbon</i> , 2005, 43, 1512-1516.   | 10.3 | 67        |
| 35 | Competitive adsorption of CO <sub>2</sub> /CH <sub>4</sub> mixture on dry and wet coal from subcritical to supercritical conditions. <i>Chemical Engineering Journal</i> , 2013, 230, 93-101.  | 12.7 | 67        |
| 36 | H <sub>2</sub> PSA purifier for CO removal from hydrogen mixtures. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18175-18186.  | 7.1  | 66        |

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|----|--|------|-----------|
| 37 | 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. | 5.6  | 66        |
| 38 | Diffusion Mechanism of Carbon Dioxide in Zeolite 4A and CaX Pellets. <i>Adsorption</i> , 2004, 10, 111-128.  | 3.0  | 65        |
| 39 | Adsorption and thermal regeneration of acetone and toluene vapors in dealuminated Y-zeolite bed. <i>Separation and Purification Technology</i> , 2011, 77, 312-324.  | 7.9  | 64        |
| 40 | Synthesis of nano-sized YAG:Eu <sup>3+</sup> phosphor in continuous supercritical water system. <i>Journal of Supercritical Fluids</i> , 2007, 40, 389-396.  | 3.2  | 61        |
| 41 | Adsorption and Desorption of n-Hexane, Methyl Ethyl Ketone, and Toluene on an Activated Carbon Fiber from Supercritical Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 2510-2518.                                    | 3.7  | 59        |
| 42 | Adsorptive denitrogenation of light gas oil by silica-zirconia cogel. <i>AIChE Journal</i> , 2006, 52, 510-521.  | 3.6  | 59        |
| 43 | Heat-exchange pressure swing adsorption process for hydrogen separation. <i>AIChE Journal</i> , 2008, 54, 2054-2064.   | 3.6  | 59        |
| 44 | Selective Aggregation Mechanism of Unmodified Gold Nanoparticles in Detection of Single Nucleotide Polymorphism. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8629-8633.  | 3.1  | 56        |
| 45 | Evaluation of the energy efficiency of the shell coal gasification process by coal type. <i>Energy Conversion and Management</i> , 2017, 143, 123-136.   | 9.2  | 56        |
| 46 | Combined approach using mathematical modelling and artificial neural network for chemical industries: Steam methane reformer. <i>Applied Energy</i> , 2019, 255, 113809.   | 10.1 | 56        |
| 47 | Synthesis of magnetic/silicananoparticles with a core of magnetic clusters and their application for the immobilization of His-tagged enzymes. <i>Journal of Materials Chemistry</i> , 2010, 20, 1511-1515.  | 6.7  | 54        |
| 48 | Air Separation by a Small-Scale Two-Bed Medical O <sub>2</sub> Pressure Swing Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2001, 40, 3647-3658.  | 3.7  | 53        |
| 49 | The effect of support and reaction conditions on aqueous phase reforming of polyol over supported Pt-Re bimetallic catalysts. <i>Catalysis Today</i> , 2012, 185, 73-80.   | 4.4  | 52        |
| 50 | 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.                        | 12.7 | 52        |
| 51 | Effects of Feed Composition of Coke Oven Gas on a Layered Bed H <sub>2</sub> PSA Process. <i>Adsorption</i> , 2001, 7, 339-356.  | 3.0  | 51        |
| 52 | Adsorption Equilibria of O <sub>2</sub> , N <sub>2</sub> , and Ar on Carbon Molecular Sieve and Zeolites 10X, 13X, and LiX. <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 1001-1008.   | 1.9  | 50        |
| 53 | Monodisperse Fe <sub>3</sub> O <sub>4</sub> /Fe@SiO <sub>2</sub> core/shell nanoparticles with enhanced magnetic property. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 293, 278-285.                                 | 4.7  | 50        |
| 54 | Synthesis of Nanosized Ce <sup>3+</sup> , Eu <sup>3+</sup> -Codoped YAG Phosphor in a Continuous Supercritical Water System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 5994-6000.   | 3.7  | 50        |

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|----|---|------|-----------|
| 55 | Adsorption dynamics of water in layered bed for air-drying tsa process. <i>AIChE Journal</i> , 2003, 49, 1601-1609.   | 3.6  | 49        |
| 56 | 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.                    | 9.2  | 49        |
| 57 | High-purity hydrogen production via a water-gas-shift reaction in a palladium-copper catalytic membrane reactor integrated with pressure swing adsorption. <i>Chemical Engineering Journal</i> , 2021, 411, 128473. | 12.7 | 49        |
| 58 | Parallel and series multi-bed pressure swing adsorption processes for H <sub>2</sub> recovery from a lean hydrogen mixture. <i>Chemical Engineering Journal</i> , 2021, 408, 127299.                                | 12.7 | 48        |
| 59 | Adsorption and Desorption of CO <sub>2</sub> on Korean Coal under Subcritical to Supercritical Conditions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4854-4861.   | 2.6  | 47        |
| 60 | 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.                         | 12.7 | 47        |
| 61 | 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.                          | 1.9  | 47        |
| 62 | Synthesis of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode materials by using a supercritical water method in a batch reactor. <i>Electrochimica Acta</i> , 2010, 55, 3015-3021.   | 5.2  | 46        |
| 63 | 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.  | 10.1 | 46        |
| 64 | Techno-economic analysis of advanced stripper configurations for post-combustion CO <sub>2</sub> capture amine processes. <i>Energy</i> , 2020, 206, 118164.  | 8.8  | 46        |
| 65 | Sorption Equilibrium and Thermal Regeneration of Acetone and Toluene Vapors on an Activated Carbon. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 4584-4594.                                   | 3.7  | 45        |
| 66 | An anti-corrosive reactor for the decomposition of halogenated hydrocarbons with supercritical water oxidation. <i>Journal of Supercritical Fluids</i> , 2005, 36, 59-69.   | 3.2  | 44        |
| 67 | 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.                                       | 7.9  | 44        |
| 68 | Backfill Cycle of a Layered Bed H <sub>2</sub> PSA Process. <i>Adsorption</i> , 1999, 5, 419-433.   | 3.0  | 43        |
| 69 | 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.                         | 7.9  | 43        |
| 70 | Advanced Operating Strategies to Extend the Applications of Simulated Moving Bed Chromatography. <i>Chemical Engineering and Technology</i> , 2017, 40, 2163-2178.  | 1.5  | 42        |
| 71 | Three-bed PVSA process for high-purity O <sub>2</sub> generation from ambient air. <i>AIChE Journal</i> , 2005, 51, 2988-2999.  | 3.6  | 41        |
| 72 | Effects of salinity on nitrification efficiency and bacterial community structure in a nitrifying osmotic membrane bioreactor. <i>Process Biochemistry</i> , 2018, 73, 132-141.                                     | 3.7  | 41        |

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|----|---|------|-----------|
| 73 | Bulk separation of hydrogen mixtures by a one-column PSA process. <i>Separation and Purification Technology</i> , 1995, 5, 239-249.   | 0.7  | 40        |
| 74 | Product identification of guaiacol oxidation catalyzed by manganese peroxidase. <i>Journal of Industrial and Engineering Chemistry</i> , 2008, 14, 487-492.   | 5.8  | 40        |
| 75 | Corrosion phenomena of alloys by subcritical and supercritical water oxidation of 2-chlorophenol. <i>Journal of Supercritical Fluids</i> , 2008, 44, 370-378.   | 3.2  | 40        |
| 76 | Hydrogen production through the aqueous phase reforming of ethylene glycol over supported Pt-based bimetallic catalysts. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8310-8317.   | 7.1  | 40        |
| 77 | Self-rotating photocatalytic system for aqueous Cr(VI) reduction on TiO <sub>2</sub> nanotube/Ti mesh substrate. <i>Chemical Engineering Journal</i> , 2013, 229, 66-71.  | 12.7 | 40        |
| 78 | Gold Nanoparticles-Based Colorimetric Assay for Cathepsin B Activity and the Efficiency of Its Inhibitors. <i>Analytical Chemistry</i> , 2014, 86, 3825-3833.   | 6.5  | 40        |
| 79 | Removal of gaseous sulfur and phosphorus compounds by carbon-coated porous magnesium oxide composites. <i>Chemical Engineering Journal</i> , 2016, 283, 1234-1243.  | 12.7 | 40        |
| 80 | 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.  | 4.0  | 40        |
| 81 | 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.   | 8.8  | 38        |
| 82 | Effects of pressure drop in a PSA process. <i>Korean Journal of Chemical Engineering</i> , 1998, 15, 211-216.   | 2.7  | 37        |
| 83 | Adsorption Equilibria of Toluene and Gasoline Vapors on Activated Carbon. <i>Journal of Chemical &amp; Engineering Data</i> , 2002, 47, 1222-1225.  | 1.9  | 36        |
| 84 | Hydrogen production via the aqueous phase reforming of ethylene glycol over platinum-supported ordered mesoporous carbon catalysts: Effect of structure and framework-configuration. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12187-12197. | 7.1  | 36        |
| 85 | Effects of adsorbate properties on adsorption mechanism in a carbon molecular sieve. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 712-720.   | 2.7  | 35        |
| 86 | Ketonization of hexanoic acid to diesel-blendable 6-undecanone on the stable zirconia aerogel catalyst. <i>Applied Catalysis A: General</i> , 2015, 506, 288-293.   | 4.3  | 35        |
| 87 | 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.  | 3.8  | 35        |
| 88 | 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.                         | 8.8  | 35        |
| 89 | Adsorption characteristics of benzene on resin-based activated carbon under humid conditions. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 242-249.   | 5.8  | 35        |
| 90 | Preparation of L-PLA submicron particles by a continuous supercritical antisolvent precipitation process. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 139-145.  | 2.7  | 34        |

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|-----|---|------|-----------|
| 91  | Heparin-coated superparamagnetic nanoparticle-mediated adeno-associated virus delivery for enhancing cellular transduction. <i>International Journal of Pharmaceutics</i> , 2011, 421, 397-404.   | 5.2  | 34        |
| 92  | 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.   | 12.7 | 34        |
| 93  | Effect of a Fluorinated Sodium Bis(2-ethylhexyl) Sulfosuccinate (Aerosol-OT, AOT) Analogue Surfactant on the Interfacial Tension of CO <sub>2</sub> + Water and CO <sub>2</sub> + Ni-Plating Solution in Near- and Supercritical CO <sub>2</sub> . <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 299-308. | 1.9  | 33        |
| 94  | 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.  | 12.7 | 33        |
| 95  | Colorimetric genotyping of single nucleotide polymorphism based on selective aggregation of unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2010, 26, 730-735.  | 10.1 | 32        |
| 96  | Adsorption kinetics of CO <sub>2</sub> , CO, N <sub>2</sub> and CH <sub>4</sub> on zeolite LiX pellet and activated carbon granule. <i>Adsorption</i> , 2015, 21, 419-432.  | 3.0  | 32        |
| 97  | 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.   | 1.9  | 32        |
| 98  | 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.  | 12.4 | 32        |
| 99  | Immobilization of lipase on surface modified magnetic nanoparticles using alkyl benzenesulfonate. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 127-130.  | 2.7  | 31        |
| 100 | Hydrocracking of vacuum residue with activated carbon in supercritical hydrocarbon solvents. <i>Fuel</i> , 2012, 94, 556-562.   | 6.4  | 31        |
| 101 | Separation dynamics of hydrogen isotope gas in mesoporous and microporous adsorbent beds at 77ÅK: SBA-15 and zeolites 5A, Y, 10X. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4437-4446.  | 7.1  | 30        |
| 102 | Sulfur removal from municipal gas using magnesium oxides and a magnesium oxide/silicon dioxide composite. <i>Microporous and Mesoporous Materials</i> , 2014, 197, 299-307.   | 4.4  | 30        |
| 103 | Effect of heat transfer on the transient dynamics of temperature swing adsorption process. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 703-711.   | 2.7  | 29        |
| 104 | Decomposition of Ethylenediaminetetraacetic Acid by Supercritical Water Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 3223-3227.  | 3.7  | 29        |
| 105 | Upgrading of petroleum vacuum residue using a hydrogen-donor solvent with acid-treated carbon. <i>Energy Conversion and Management</i> , 2018, 161, 234-242.  | 9.2  | 29        |
| 106 | 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.  | 10.1 | 29        |
| 107 | Evaluation of PANâ€“TiO <sub>2</sub> Composite Adsorbent for Removal of Pb(II) Ion in Aqueous Solution. <i>Separation Science and Technology</i> , 2003, 38, 695-713.   | 2.5  | 28        |
| 108 | Parametric Study of Pressure Swing Adsorption Process To Purify Oxygen Using Carbon Molecular Sieve. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 7208-7217.  | 3.7  | 27        |

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|-----|--|------|-----------|
| 109 | Synthesis of Zn <sub>2</sub> SnO <sub>4</sub> anode material by using supercritical water in a batch reactor. <i>Journal of Supercritical Fluids</i> , 2010, 55, 252-258.  | 3.2  | 27        |
| 110 | Drying Efficiency of Indonesian Lignite in a Batch-Circulating Fluidized Bed Dryer. <i>Drying Technology</i> , 2014, 32, 268-278.  | 3.1  | 27        |
| 111 | Analysis of thermal parameter effects on an adsorption bed for purification and bulk separation. <i>Separation and Purification Technology</i> , 2017, 181, 95-106.  | 7.9  | 27        |
| 112 | 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.   | 5.1  | 27        |
| 113 | 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.                     | 12.7 | 27        |
| 114 | Alkyl-functionalization of (3-Aminopropyl)triethoxysilane-grafted zeolite beta for carbon dioxide capture in temperature swing adsorption. <i>Chemical Engineering Journal</i> , 2020, 382, 122834.  | 12.7 | 27        |
| 115 | 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.  | 8.8  | 27        |
| 116 | Vapor-Liquid Equilibria for Isobutane + Pentafluoroethane (HFC-125) at 293.15 to 313.15 K and + 1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea) at 303.15 to 323.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2000, 45, 760-763.                           | 1.9  | 26        |
| 117 | Adsorption Isotherms of Toluene and Gasoline Vapors on DAY Zeolite. <i>Journal of Chemical &amp; Engineering Data</i> , 2002, 47, 363-366.   | 1.9  | 26        |
| 118 | Methylene chloride oxidation on oxidative carbon-supported chromium oxide catalyst. <i>Applied Catalysis A: General</i> , 2004, 266, 163-172.  | 4.3  | 26        |
| 119 | Hydrogen separation from reforming gas using organic templating silica/alumina composite membrane. <i>Journal of Membrane Science</i> , 2008, 318, 45-55.  | 8.2  | 26        |
| 120 | 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.  | 6.4  | 26        |
| 121 | Pressure Swing Adsorption Process for Recovering H <sub>2</sub> from the Effluent Gas of a Melting Incinerator. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 15447-15455.  | 3.7  | 25        |
| 122 | Adsorptive cyclic purification process for CO <sub>2</sub> mixtures captured from coal power plants. <i>AIChE Journal</i> , 2017, 63, 1051-1063.   | 3.6  | 25        |
| 123 | Adsorption equilibria and kinetics of propane and propylene on zeolite 13X pellets. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 286-298.  | 4.4  | 25        |
| 124 | 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.   | 4.4  | 25        |
| 125 | Performance evaluation and carbon assessment of IGCC power plant with coal quality. <i>Energy</i> , 2019, 188, 116063.   | 8.8  | 25        |
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