

Jinsoo Kim

List of Publications by Year in descending order

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201
papers

7,433
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docs citations

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times ranked

8669
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Spray pyrolysis-assisted synthesis of hollow cobalt nitrogen-doped carbon catalyst for the performance enhancement of membraneless fuel cells. <i>International Journal of Energy Research</i> , 2022, 46, 760-773. | 2.2 | 11 |
| 2 | Pyrolysis kinetics and product distribution of 1 \pm -cellulose: Effect of potassium and calcium impregnation. <i>Renewable Energy</i> , 2022, 181, 329-340. | 4.3 | 11 |
| 3 | Catalytic pyrolysis of spent coffee waste for upgrading sustainable bio-oil in a bubbling fluidized-bed reactor: Experimental and techno-economic analysis. <i>Chemical Engineering Journal</i> , 2022, 427, 130956. | 6.6 | 25 |
| 4 | Chelating Cu-N within Cu ⁺ -incorporated MIL-101 (Cr)-NH ₂ framework for enhanced CO adsorption and CO/CO ₂ selectivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 635, 128076. | 2.3 | 13 |
| 5 | Creating Cu(I)-decorated defective UiO-66(Zr) framework with high CO adsorption capacity and selectivity. <i>Separation and Purification Technology</i> , 2022, 283, 120237. | 3.9 | 22 |
| 6 | Effects of torrefaction on product distribution and quality of bio-oil from food waste pyrolysis in N ₂ and CO ₂ . <i>Waste Management</i> , 2022, 141, 16-26. | 3.7 | 22 |
| 7 | Highly selective hydrodeoxygenation of wood pallet sawdust pyrolysis oil to methyl phenol derivatives using cobalt and iron on activated carbon supported catalysts. <i>Energy Conversion and Management: X</i> , 2022, 14, 100184. | 0.9 | 3 |
| 8 | Co-pyrolysis of lignocellulosic biomass and plastics: A comprehensive study on pyrolysis kinetics and characteristics. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 163, 105464. | 2.6 | 49 |
| 9 | Pyrolysis characteristics and quantitative kinetic model of microalgae <i>Tetraselmis</i> sp.. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 1478-1486. | 1.2 | 11 |
| 10 | Cu(I)-loaded boehmite microspheres prepared by the continuous flow-assisted spray-drying method for selective carbon monoxide separation. <i>Separation and Purification Technology</i> , 2022, 291, 120941. | 3.9 | 2 |
| 11 | Design of Co-NC as efficient electrocatalyst: The unique structure and active site for remarkable durability of proton exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 308, 121220. | 10.8 | 26 |
| 12 | Synthesis of hollow Fe, Co, and N-doped carbon catalysts from conducting polymer-metal-organic-frameworks core-shell particles for their application in an oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 24169-24178. | 3.8 | 18 |
| 13 | Tofu-derived heteroatom-doped carbon for oxygen reduction reaction in an anion exchange membrane-fuel cell. <i>Energy Conversion and Management</i> , 2022, 265, 115754. | 4.4 | 9 |
| 14 | Microwave-assisted synthesis of MgFe ₂ O ₄ -decorated UiO-66(Zr)-NH ₂ composites for collaborative adsorption and photocatalytic degradation of tetracycline. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 2532-2541. | 1.2 | 9 |
| 15 | Spray pyrolysis-derived MoO ₃ @Al ₂ O ₃ @TiO ₂ core-shell structures with enhanced hydrodeoxygenation performance. <i>Catalysis Communications</i> , 2022, 169, 106478. | 1.6 | 5 |
| 16 | Ni,Ti-co-doped MoO ₂ nanoparticles with high stability and improved conductivity for hole transporting material in planar metal halide perovskite solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 94, 376-383. | 2.9 | 8 |
| 17 | Formation of structural defects within UiO-66(Zr)-(OH) ₂ framework for enhanced CO ₂ adsorption using a microwave-assisted continuous-flow tubular reactor. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110746. | 2.2 | 45 |
| 18 | Catalytic upgrade for pyrolysis of food waste in a bubbling fluidized-bed reactor. <i>Environmental Pollution</i> , 2021, 275, 116023. | 3.7 | 22 |

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|----|---|-----|-----------|
| 19 | A novel approach to prepare Cu(I)Zn@MIL-100(Fe) adsorbent with high CO adsorption capacity, CO/CO ₂ selectivity and stability via controlled host-guest redox reaction. <i>Chemical Engineering Journal</i> , 2021, 404, 126492. | 6.6 | 34 |
| 20 | Bio-oil production from fast pyrolysis of furniture processing residue. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 306-315. | 1.2 | 5 |
| 21 | Facile synthesis of graphite oxide/MIL-101(Cr) hybrid composites for enhanced adsorption performance towards industrial toxic dyes. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 224-234. | 2.9 | 40 |
| 22 | Esoteric CO adsorption by CuCl-NiCl ₂ embedded microporous MIL-101 (Cr). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 615, 126242. | 2.3 | 22 |
| 23 | Microporous Mo-Uio-66 Metal-Organic Framework Nanoparticles as Gas Adsorbents. <i>ACS Applied Nano Materials</i> , 2021, 4, 4895-4901. | 2.4 | 11 |
| 24 | Double-solvent-assisted synthesis of bimetallic CuFe-incorporated MIL-101(Cr) for improved CO-adsorption performance and oxygen-resistant stability. <i>Applied Surface Science</i> , 2021, 546, 149087. | 3.1 | 23 |
| 25 | High-dispersion Co-Fe-NC electrocatalyst based on leaf-shaped zeolite imidazole framework for oxygen-reduction reaction in acidic medium. <i>International Journal of Energy Research</i> , 2021, 45, 15534-15543. | 2.2 | 8 |
| 26 | Metal-organic frameworks/alginate composite beads as effective adsorbents for the removal of hexavalent chromium from aqueous solution. <i>Chemosphere</i> , 2021, 270, 129487. | 4.2 | 66 |
| 27 | Bimetallic ZIFs derived nitrogen-doped hollow carbon with carbon nanotube bridges as a superior oxygen reduction reaction electrocatalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 466-475. | 2.9 | 19 |
| 28 | Construction of OH sites within MIL-101(Cr)-NH ₂ framework for enhanced CO ₂ adsorption and CO ₂ /N ₂ selectivity. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1676-1685. | 1.2 | 17 |
| 29 | A review on application of activated carbons for carbon dioxide capture: present performance, preparation, and surface modification for further improvement. <i>Environmental Science and Pollution Research</i> , 2021, 28, 43329-43364. | 2.7 | 73 |
| 30 | Fast pyrolysis of pitch pine biomass in a bubbling fluidized-bed reactor for bio-oil production. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 168-179. | 2.9 | 32 |
| 31 | Effect of Batchelor Flow on Polymorphic Crystallization in a Rotating Disk Crystallizer. <i>Crystals</i> , 2021, 11, 701. | 1.0 | 1 |
| 32 | Facile synthesis of magnetic framework composite MgFe ₂ O ₄ @Uio-66(Zr) and its applications in the adsorption-photocatalytic degradation of tetracycline. <i>Environmental Science and Pollution Research</i> , 2021, 28, 68261-68275. | 2.7 | 23 |
| 33 | Facile synthesis of spray pyrolysis-derived CuCl ₂ /Al ₂ O ₃ microspheres and their properties for CO adsorption and CO/CO ₂ separation. <i>Microporous and Mesoporous Materials</i> , 2021, 321, 111132. | 2.2 | 16 |
| 34 | Catalytic hydrodeoxygenation of guaiacol as a model compound of woody bio-oil over Fe/AC and Ni/Al ₂ O ₃ catalysts. <i>Renewable Energy</i> , 2021, 173, 886-895. | 4.3 | 23 |
| 35 | Effect of amino-defective-MOF materials on the selective hydrodeoxygenation of fatty acid over Pt-based catalysts. <i>Journal of Catalysis</i> , 2021, 400, 283-293. | 3.1 | 18 |
| 36 | Freeze Granulation of Nanoporous Uio-66 Nanoparticles for Capture of Volatile Organic Compounds. <i>ACS Applied Nano Materials</i> , 2021, 4, 8863-8871. | 2.4 | 11 |

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|----|---|------|-----------|
| 37 | Feasibility of a Spherical Hollow Carbon Framework as a Stable Host Material for Reversible Metallic Li Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42732-42740. | 4.0 | 5 |
| 38 | Enhanced CO ₂ adsorption performance on amino-defective UiO-66 with 4-amino benzoic acid as the defective linker. <i>Separation and Purification Technology</i> , 2021, 274, 119079. | 3.9 | 31 |
| 39 | Catalytic hydrogenolysis of alkali lignin in supercritical ethanol over copper monometallic catalyst supported on a chromium-based metal-organic framework for the efficient production of aromatic monomers. <i>Bioresource Technology</i> , 2021, 342, 125941. | 4.8 | 17 |
| 40 | Controlled hydrodeoxygenation of lignin-derived anisole over supported Pt on UiO-66 based-catalysts through defect engineering approach. <i>Fuel Processing Technology</i> , 2021, 224, 107001. | 3.7 | 11 |
| 41 | Lumped-kinetic modeling and experiments on co-pyrolysis of palm kernel cake with polystyrene using a closed-tubing reactor to upgrade pyrolysis products. <i>Energy Conversion and Management</i> , 2021, 249, 114879. | 4.4 | 17 |
| 42 | Hollow-sphere Co-NC synthesis by incorporation of ultrasonic spray pyrolysis and pseudomorphic replication and its enhanced activity toward oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118192. | 10.8 | 52 |
| 43 | Microporous ZIF-8 and ZIF-67 membranes grown on mesoporous alumina substrate for selective propylene transport. <i>Separation and Purification Technology</i> , 2020, 233, 116026. | 3.9 | 37 |
| 44 | Catalytic pyrolysis of bamboo in a bubbling fluidized-bed reactor with two different catalysts: HZSM-5 and red mud for upgrading bio-oil. <i>Renewable Energy</i> , 2020, 149, 1434-1445. | 4.3 | 57 |
| 45 | Spray pyrolysis synthesis of bimetallic NiMo/Al ₂ O ₃ -TiO ₂ catalyst for hydrodeoxygenation of guaiacol: Effects of bimetallic composition and reduction temperature. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 351-358. | 2.9 | 39 |
| 46 | Preparation of eco-friendly alginate-based Pickering stabilizers using a dual ultrasonic nebulizer spray method. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 96-105. | 2.9 | 10 |
| 47 | Efficient Metal Halide Perovskite Solar Cells Prepared by Reproducible Electrospray Coating on Vertically Aligned TiO ₂ Nanorod Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 886-892. | 4.0 | 7 |
| 48 | ZIF-8 tubular membrane for propylene purification: Effect of surface curvature and zinc salts on separation performance. <i>Separation and Purification Technology</i> , 2020, 251, 117354. | 3.9 | 17 |
| 49 | Hydrodeoxygenation of a bio-oil model compound derived from woody biomass using spray-pyrolysis-derived spherical Al ₂ O ₃ -SiO ₂ catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 92, 243-251. | 2.9 | 32 |
| 50 | Bimodal-porous hollow MgO sphere embedded mixed matrix membranes for CO ₂ capture. <i>Separation and Purification Technology</i> , 2020, 250, 117065. | 3.9 | 22 |
| 51 | Microwave-assisted continuous flow synthesis of mesoporous metal-organic framework MIL-100 (Fe) and its application to Cu(I)-loaded adsorbent for CO/CO ₂ separation. <i>Materials Chemistry and Physics</i> , 2020, 253, 123278. | 2.0 | 36 |
| 52 | Ethylenediamine-incorporated MIL-101(Cr)-NH ₂ metal-organic frameworks for enhanced CO ₂ adsorption. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1206-1211. | 1.2 | 29 |
| 53 | Facile synthesis of mesoporous Cr ₂ O ₃ microspheres by spray pyrolysis and their photocatalytic activity: Effects of surfactant and pyrolysis temperature. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 571-575. | 1.2 | 19 |
| 54 | Rapid defect engineering of UiO-67 (Zr) via microwave-assisted continuous-flow synthesis: Effects of modulator species and concentration on the toluene adsorption. <i>Microporous and Mesoporous Materials</i> , 2020, 306, 110405. | 2.2 | 55 |

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|----|--|-----|-----------|
| 55 | Microwave-assisted continuous-flow synthesis of mixed-ligand UiO-66(Zr) frameworks and their application to toluene adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 86, 178-185. | 2.9 | 48 |
| 56 | Counter-diffusion-based in situ synthesis of ZIF-67 membranes for propylene/propane separation. <i>Materials Letters</i> , 2020, 271, 127777. | 1.3 | 10 |
| 57 | Highly CO selective Cu(I)-doped MIL-100(Fe) adsorbent with high CO/CO ₂ selectivity due to π -complexation: Effects of Cu(I) loading and activation temperature. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 17-24. | 2.2 | 54 |
| 58 | Facile Synthesis of UiO-66(Zr) Using a Microwave-Assisted Continuous Tubular Reactor and Its Application for Toluene Adsorption. <i>Crystal Growth and Design</i> , 2019, 19, 4949-4956. | 1.4 | 49 |
| 59 | Intensification of Pseudocapacitance by Nanopore Engineering on Waste-Bamboo-Derived Carbon as a Positive Electrode for Lithium-Ion Batteries. <i>Materials</i> , 2019, 12, 2733. | 1.3 | 5 |
| 60 | Cost-effective and eco-friendly synthesis of MIL-101(Cr) from waste hexavalent chromium and its application for carbon monoxide separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 345-351. | 2.9 | 64 |
| 61 | Synthesis of Cu-doped MOF-235 for the Degradation of Methylene Blue under Visible Light Irradiation. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 112-117. | 1.0 | 27 |
| 62 | A new etching process for zinc oxide with etching rate and crystal plane control: experiment, calculation, and membrane application. <i>Nanoscale</i> , 2019, 11, 12337-12346. | 2.8 | 3 |
| 63 | Fast pyrolysis of acid-washed oil palm empty fruit bunch for bio-oil production in a bubbling fluidized-bed reactor. <i>Energy</i> , 2019, 179, 517-527. | 4.5 | 26 |
| 64 | Microporous ZIF-8 membrane prepared from secondary growth for improved propylene permeance and selectivity. <i>Microporous and Mesoporous Materials</i> , 2019, 285, 178-184. | 2.2 | 40 |
| 65 | Biomass-Derived Air Cathode Materials: Pore-Controlled S,N-Co-doped Carbon for Fuel Cells and Metal-Air Batteries. <i>ACS Catalysis</i> , 2019, 9, 3389-3398. | 5.5 | 117 |
| 66 | Fast pyrolysis of fermentation residue derived from <i>Saccharina japonica</i> for a hybrid biological and thermal process. <i>Energy</i> , 2019, 170, 239-249. | 4.5 | 14 |
| 67 | Preparation of Mixed Matrix Membranes Containing ZIF-8 and UiO-66 for Multicomponent Light Gas Separation. <i>Crystals</i> , 2019, 9, 15. | 1.0 | 15 |
| 68 | Catalytic Hydrodeoxygenation of Fast Pyrolysis Bio-Oil from <i>Saccharina japonica</i> Alga for Bio-Oil Upgrading. <i>Catalysts</i> , 2019, 9, 1043. | 1.6 | 18 |
| 69 | Wood forming tissue-specific bicistronic expression of <i>Pd-GA_{20ox1}</i> and <i>Ptr-MYB221</i> improves both the quality and quantity of woody biomass production in a hybrid poplar. <i>Plant Biotechnology Journal</i> , 2019, 17, 1048-1057. | 4.1 | 37 |
| 70 | Upgrading bio-oil by catalytic fast pyrolysis of acid-washed <i>Saccharina japonica</i> alga in a fluidized-bed reactor. <i>Renewable Energy</i> , 2019, 133, 11-22. | 4.3 | 42 |
| 71 | Efficient catalyst recovery systems based on Pd-coated γ -alumina particles. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 471-478. | 2.9 | 5 |
| 72 | Application of Ti-doped MoO ₂ microspheres prepared by spray pyrolysis to partial oxidation of n-dodecane. <i>Applied Catalysis A: General</i> , 2018, 553, 74-81. | 2.2 | 8 |

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|----|---|-----|-----------|
| 73 | Rapid solvothermal synthesis of microporous UiO-66 particles for carbon dioxide capture. Korean Journal of Chemical Engineering, 2018, 35, 764-769. | 1.2 | 27 |
| 74 | Facile synthesis of Mo/Al ₂ O ₃ @TiO ₂ catalysts using spray pyrolysis and their catalytic activity for hydrodeoxygenation. Energy Conversion and Management, 2018, 158, 92-102. | 4.4 | 44 |
| 75 | Facile synthesis and characterization of γ -AlOOH/PVA composite granules for Cr(VI) adsorption. Journal of Industrial and Engineering Chemistry, 2018, 60, 485-492. | 2.9 | 44 |
| 76 | Synthesis of Ni promoted molybdenum dioxide nanoparticles using solvothermal cracking process for catalytic partial oxidation of n-dodecane. Korean Journal of Chemical Engineering, 2018, 35, 283-288. | 1.2 | 6 |
| 77 | Spray pyrolysis synthesis of mesoporous TiO ₂ microspheres and their post modification for improved photocatalytic activity. Korean Journal of Chemical Engineering, 2018, 35, 2480-2486. | 1.2 | 13 |
| 78 | From grass to battery anode: agricultural biomass hemp-derived carbon for lithium storage. RSC Advances, 2018, 8, 32231-32240. | 1.7 | 37 |
| 79 | Pyrolysis Kinetics of Genetically Engineered Hybrid Poplars for Bio-Oil Production. Computer Aided Chemical Engineering, 2018, 43, 1589-1594. | 0.3 | 1 |
| 80 | Catalytic pyrolysis of tulip tree (Liriodendron) in bubbling fluidized-bed reactor for upgrading bio-oil using dolomite catalyst. Energy, 2018, 162, 564-575. | 4.5 | 48 |
| 81 | Facile Spray Pyrolysis Synthesis of Various Metal-Doped MoO ₂ Microspheres for Catalytic Partial Oxidation of n-Dodecane. Catalysis Letters, 2018, 148, 2510-2515. | 1.4 | 1 |
| 82 | Biomass Waste, Coffee Grounds-derived Carbon for Lithium Storage. Journal of Electrochemical Science and Technology, 2018, 9, 163-168. | 0.9 | 11 |
| 83 | Thermogravimetric characteristics and pyrolysis kinetics of high-density-aquacultured Saccharina Japonica : Effects of water-washing. Fuel, 2017, 193, 159-167. | 3.4 | 19 |
| 84 | Pyrolysis characteristics and kinetics of microalgal Aurantiochytrium sp. KRS101. Energy, 2017, 118, 369-376. | 4.5 | 62 |
| 85 | Effects of water-washing Saccharina japonica on fast pyrolysis in a bubbling fluidized-bed reactor. Biomass and Bioenergy, 2017, 98, 112-123. | 2.9 | 45 |
| 86 | High-performance thin PVC-POEM/ZIF-8 mixed matrix membranes on alumina supports for CO ₂ /CH ₄ separation. Journal of Industrial and Engineering Chemistry, 2017, 53, 127-133. | 2.9 | 21 |
| 87 | MnO ₂ Nanowire/Biomass-Derived Carbon from Hemp Stem for High-Performance Supercapacitors. Langmuir, 2017, 33, 5140-5147. | 1.6 | 89 |
| 88 | Hydrodeoxygenation of 2-furyl methyl ketone as a model compound of algal Saccharina Japonica bio-oil using iron phosphide catalyst. Chemical Engineering Journal, 2017, 317, 302-308. | 6.6 | 22 |
| 89 | Bio-ETBE determination in a mixture of gasoline using low level liquid scintillation counting. Journal of Industrial and Engineering Chemistry, 2017, 49, 26-29. | 2.9 | 2 |
| 90 | Continuous synthesis of molybdenum oxide microspheres by ultrasonic spray pyrolysis. Journal of Industrial and Engineering Chemistry, 2017, 47, 254-259. | 2.9 | 19 |

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|-----|---|-----|-----------|
| 91 | Delayed Sequential Co-Delivery of Gefitinib and Doxorubicin for Targeted Combination Chemotherapy. <i>Molecular Pharmaceutics</i> , 2017, 14, 4551-4559. | 2.3 | 30 |
| 92 | Genetically engineered hybrid poplars for the pyrolytic production of bio-oil: Pyrolysis characteristics and kinetics. <i>Energy Conversion and Management</i> , 2017, 153, 48-59. | 4.4 | 15 |
| 93 | Synthesis of mesoporous spherical γ -Al ₂ O ₃ particles with varying porosity by spray pyrolysis of commercial boehmite. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 56, 151-156. | 2.9 | 11 |
| 94 | A general reaction network and kinetic model of the hydrothermal liquefaction of microalgae <i>Tetraselmis</i> sp.. <i>Bioresource Technology</i> , 2017, 241, 610-619. | 4.8 | 61 |
| 95 | Scalable synthesis of Ti-doped MoO ₂ nanoparticle-hole-transporting-material with high moisture stability for CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Chemical Engineering Journal</i> , 2017, 330, 698-705. | 6.6 | 37 |
| 96 | Complete removal of carbon monoxide by functional nanoparticles for hydrogen fuel cell application. <i>Chemical Engineering Science</i> , 2017, 172, 688-693. | 1.9 | 8 |
| 97 | Facile scalable synthesis of MoO ₂ nanoparticles by new solvothermal cracking process and their application to hole transporting layer for CH ₃ NH ₃ PbI ₃ planar perovskite solar cells. <i>Chemical Engineering Journal</i> , 2017, 310, 179-186. | 6.6 | 30 |
| 98 | Spray pyrolysis synthesis of γ -Al ₂ O ₃ supported metal and metal phosphide catalysts and their activity in the hydrodeoxygenation of a bio-oil model compound. <i>Energy Conversion and Management</i> , 2016, 127, 545-553. | 4.4 | 29 |
| 99 | Thermogravimetric characteristics of β -cellulose and decomposition kinetics in a micro-tubing reactor. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3128-3133. | 1.2 | 11 |
| 100 | Kinetics study of the hydrothermal liquefaction of the microalga <i>Aurantiochytrium</i> sp. KRS101. <i>Chemical Engineering Journal</i> , 2016, 306, 763-771. | 6.6 | 68 |
| 101 | Enhanced autotrophic growth of <i>Nannochloris</i> sp. with trona buffer for sustainable carbon recycle. <i>Biotechnology and Bioprocess Engineering</i> , 2016, 21, 422-429. | 1.4 | 2 |
| 102 | Architecture of Directed-Channel Mesoporous Silica/Titania Shell on Bi-Alkaline-Earth Carbonate Particles for Core-Shell Structure. <i>ChemistrySelect</i> , 2016, 1, 3520-3526. | 0.7 | 2 |
| 103 | Fast pyrolysis of <i>Saccharina japonica</i> alga in a fixed-bed reactor for bio-oil production. <i>Energy Conversion and Management</i> , 2016, 122, 526-534. | 4.4 | 105 |
| 104 | Microporous ZIF-7 membranes prepared by in-situ growth method for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10366-10373. | 3.8 | 25 |
| 105 | A facile synthesis of rutile-rich titanium oxide nanoparticles using reverse micelle method and their photocatalytic applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 369-373. | 2.9 | 22 |
| 106 | Effect of hydrophilic Cu ₃ (BTC) ₂ additives on the performance of PVDF membranes for water flux improvement. <i>Desalination and Water Treatment</i> , 2016, 57, 17637-17645. | 1.0 | 19 |
| 107 | Pyrolysis of <i>Quercus Variabilis</i> in a Bubbling Fluidized Bed Reactor. <i>Korean Chemical Engineering Research</i> , 2016, 54, 687-692. | 0.2 | 3 |
| 108 | Zeolitic imidazolate framework membranes for gas separation: A review of synthesis methods and gas separation performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 28, 1-15. | 2.9 | 129 |

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|-----|--|------|-----------|
| 109 | Production of molybdenum oxide particles with high yield by ultrasonic spray pyrolysis and their catalytic activity toward partial oxidation of n-dodecane. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 112, 276-283. | 2.6 | 21 |
| 110 | Hollow ZIF-8 nanoparticles improve the permeability of mixed matrix membranes for CO ₂ /CH ₄ gas separation. <i>Journal of Membrane Science</i> , 2015, 480, 11-19. | 4.1 | 146 |
| 111 | Effect of acid washing on pyrolysis of <i>Cladophora socialis</i> alga in microtubing reactor. <i>Energy Conversion and Management</i> , 2015, 106, 260-267. | 4.4 | 55 |
| 112 | Polymer Stamps for Imprinting Nanopatterns in Polymer Substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 471-474. | 0.9 | 4 |
| 113 | Mixed matrix membranes consisting of SEBS block copolymers and size-controlled ZIF-8 nanoparticles for CO ₂ capture. <i>Journal of Membrane Science</i> , 2015, 495, 479-488. | 4.1 | 96 |
| 114 | Nickel-based anode with microstructured molybdenum dioxide internal reformer for liquid hydrocarbon-fueled solid oxide fuel cells. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 439-444. | 10.8 | 5 |
| 115 | Fast pyrolysis of macroalga <i>Saccharina japonica</i> in a bubbling fluidized-bed reactor for bio-oil production. <i>Energy</i> , 2015, 93, 1436-1446. | 4.5 | 79 |
| 116 | Scalable continuous solvo-jet process for ZIF-8 nanoparticles. <i>Chemical Engineering Journal</i> , 2015, 266, 56-63. | 6.6 | 30 |
| 117 | Pyrolysis of microalgae residual biomass derived from <i>Dunaliella tertiolecta</i> after lipid extraction and carbohydrate saccharification. <i>Chemical Engineering Journal</i> , 2015, 263, 194-199. | 6.6 | 92 |
| 118 | Highly selective micro-porous ZIF-8 membranes prepared by rapid electrospray deposition. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 575-579. | 2.9 | 37 |
| 119 | The Effect of Hydrotalcite Content in Microporous Composite Membrane on Gas Permeability and Permselectivity. <i>Separation Science and Technology</i> , 2014, 49, 1309-1316. | 1.3 | 14 |
| 120 | Fast Pyrolysis of Pine Wood Chip in a Free Fall Reactor: The Effect of Pyrolysis Temperature and Sweep Gas Flow Rate. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2014, 36, 1158-1165. | 1.2 | 9 |
| 121 | Nano Ni layered anode for enhanced MCFC performance at reduced operating temperature. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12285-12290. | 3.8 | 15 |
| 122 | Predominant Gas Transport in Microporous Hydrotalcite/Silica Membrane. <i>Transport in Porous Media</i> , 2014, 102, 59-70. | 1.2 | 13 |
| 123 | Direct spraying approach for synthesis of ZIF-7 membranes by electrospray deposition. <i>Journal of Membrane Science</i> , 2014, 459, 190-196. | 4.1 | 70 |
| 124 | Growth of <i>Chlorella vulgaris</i> using sodium bicarbonate under no mixing condition. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 604-609. | 0.8 | 5 |
| 125 | Catalytic Pyrolysis of Alga <i>Saccharina japonica</i> Using Co/Al ₂ O ₃ and Ni/Al ₂ O ₃ Catalyst. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2014, 36, 2392-2400. | 1.2 | 8 |
| 126 | YSZ-carbonate dual-phase membranes for high temperature carbon dioxide separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3703-3708. | 2.9 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Gasoline-fueled solid oxide fuel cell using MoO ₂ -Based Anode. Journal of Power Sources, 2014, 268, 546-549. | 4.0 | 25 |
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