# Wha-Seung Ahn

List of Publications by Year
in descending order



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|---|---|---|---|
| 160 papers | 11,830 citations | 26630 56 h-index | 29157 104 g-index |
| 163 all docs | 163 docs citations | 163 times ranked | 11789 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Adsorptive removal of carbon dioxide using polyethyleneimine-loaded mesoporous silica materials. Microporous and Mesoporous Materials, 2008, 113, 31-40. | 4.4 | 532 |
| 2 | Synthesis of metal-organic frameworks: A mini review. Korean Journal of Chemical Engineering, 2013, 30, 1667-1680. | 2.7 | 487 |
| 3 | CO<sub>2</sub>capture and conversion using Mg-MOF-74 prepared by a sonochemical method. Energy and Environmental Science, 2012, 5, 6465-6473. | 30.8 | 463 |
| 4 | ZIF-8: A comparison of synthesis methods. Chemical Engineering Journal, 2015, 271, 276-280. | 12.7 | 462 |
| 5 | Adsorption/catalytic properties of MIL-125 and NH2-MIL-125. Catalysis Today, 2013, 204, 85-93. | 4.4 | 406 |
| 6 | Sonochemical synthesis of MOF-5. Chemical Communications, 2008, , 6336. | 4.1 | 388 |
| 7 | CO2 cycloaddition of styrene oxide over MOF catalysts. Applied Catalysis A: General, 2013, 453, 175-180. | 4.3 | 359 |
| 8 | Amine-impregnated silica monolith with a hierarchical pore structure: enhancement of CO2 capture capacity. Chemical Communications, 2009, , 3627. | 4.1 | 301 |
| 9 | CO2 adsorption and catalytic application of Co-MOF-74 synthesized by microwave heating. Catalysis Today, 2012, 185, 35-40. | 4.4 | 290 |
| 10 | Metalâ€“organic framework MOF-5 prepared by microwave heating: Factors to be considered. Microporous and Mesoporous Materials, 2008, 116, 727-731. | 4.4 | 285 |
| 11 | Triazine-based covalent organic polymers: design, synthesis and applications in heterogeneous catalysis. Journal of Materials Chemistry A, 2016, 4, 16288-16311. | 10.3 | 271 |
| 12 | Control of catenation in CuTATB-n metalâ€“organic frameworks by sonochemical synthesis and its effect on CO2 adsorption. Journal of Materials Chemistry, 2011, 21, 3070. | 6.7 | 225 |
| 13 | Chromium terephthalate metalâ€“organic framework MIL-101: synthesis, functionalization, and applications for adsorption and catalysis. RSC Advances, 2014, 4, 52500-52525. | 3.6 | 217 |
| 14 | MFI Titanosilicate Nanosheets with Single-Unit-Cell Thickness as an Oxidation Catalyst Using Peroxides. ACS Catalysis, 2011, 1, 901-907. | 11.2 | 206 |
| 15 | High yield 1-L scale synthesis of ZIF-8 via a sonochemical route. Microporous and Mesoporous Materials, 2013, 169, 180-184. | 4.4 | 199 |
| 16 | Amine-Functionalized MIL-125 with Imbedded Palladium Nanoparticles as an Efficient Catalyst for Dehydrogenation of Formic Acid at Ambient Temperature. Journal of Physical Chemistry C, 2013, 117, 22805-22810. | 3.1 | 188 |
| 17 | CO2 adsorption over ion-exchanged zeolite beta with alkali and alkaline earth metal ions. Microporous and Mesoporous Materials, 2010, 135, 90-94. | 4.4 | 170 |
| 18 | Carbon dioxide capture using amine-impregnated HMS having textural mesoporosity. Chemical Engineering Journal, 2010, 161, 46-52. | 12.7 | 161 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Microporous covalent triazine polymers: efficient Friedelâ€“Crafts synthesis and adsorption/storage of CO<sub>2</sub> and CH<sub>4</sub>. Journal of Materials Chemistry A, 2015, 3, 6792-6797. | 10.3 | 160 |
| 20 | Selective Adsorption of Rare Earth Elements over Functionalized Cr-MIL-101. ACS Applied Materials & Interfaces, 2018, 10, 23918-23927. | 8.0 | 160 |
| 21 | Facile synthesis of covalent organic frameworks COF-1 and COF-5 by sonochemical method. RSC Advances, 2012, 2, 10179. | 3.6 | 159 |
| 22 | CO2 capture by amine-functionalized nanoporous materials: A review. Korean Journal of Chemical Engineering, 2014, 31, 1919-1934. | 2.7 | 148 |
| 23 | Amineâ€“silica composites for CO2 capture: A short review. Journal of Energy Chemistry, 2017, 26, 868-880. | 12.9 | 145 |
| 24 | Synthesis of nanoporous materials via recycling coal fly ash and other solid wastes: A mini review. Chemical Engineering Journal, 2017, 317, 821-843. | 12.7 | 143 |
| 25 | EDTA-functionalized KCC-1 and KIT-6 mesoporous silicas for Nd3+ ion recovery from aqueous solutions. Journal of Industrial and Engineering Chemistry, 2018, 67, 210-218. | 5.8 | 143 |
| 26 | CO2 capture using zeolite 13X prepared from bentonite. Applied Surface Science, 2014, 292, 63-67. | 6.1 | 136 |
| 27 | Synthesis of mesoporous materials SBA-15 and CMK-3 from fly ash and their application for CO2 adsorption. Journal of Porous Materials, 2009, 16, 545-551. | 2.6 | 135 |
| 28 | A new heterogeneous catalyst for epoxidation of alkenes via one-step post-functionalization of IRMOF-3 with a manganese(ii) acetylacetonate complex. Chemical Communications, 2011, 47, 3637. | 4.1 | 133 |
| 29 | Microporous amine-functionalized aromatic polymers and their carbonized products for CO2 adsorption. Chemical Engineering Journal, 2017, 319, 65-74. | 12.7 | 123 |
| 30 | Zeolitic Imidazolate Frameworks: Synthesis, Functionalization, and Catalytic/Adsorption Applications. Catalysis Surveys From Asia, 2014, 18, 101-127. | 2.6 | 119 |
| 31 | Efficient carbon dioxide capture over a nitrogen-rich carbon having a hierarchical micro-mesopore structure. Fuel, 2012, 95, 360-364. | 6.4 | 118 |
| 32 | Enhanced adsorptive removal of fluoride using mesoporous alumina. Microporous and Mesoporous Materials, 2010, 127, 152-156. | 4.4 | 116 |
| 33 | CO2 adsorption and conversion into cyclic carbonates over a porous ZnBr2-grafted N-heterocyclic carbene-based aromatic polymer. Applied Catalysis B: Environmental, 2019, 251, 195-205. | 20.2 | 112 |
| 34 | Covalent triazine polymers using a cyanuric chloride precursor via Friedelâ€“Crafts reaction for CO2 adsorption/separation. Chemical Engineering Journal, 2016, 283, 184-192. | 12.7 | 102 |
| 35 | Carbon dioxide adsorption over zeolite-like metal organic frameworks (ZMOFs) having a sod topology: Structure and ion-exchange effect. Chemical Engineering Journal, 2011, 168, 1134-1139. | 12.7 | 101 |
| 36 | Post-synthesis functionalization of MIL-101 using diethylenetriamine: a study on adsorption and catalysis. CrystEngComm, 2012, 14, 4142. | 2.6 | 94 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Porous Covalent Triazine Polymer as a Potential Nanocargo for Cancer Therapy and Imaging. ACS Applied Materials & Interfaces, 2016, 8, 8947-8955. | 8.0 | 87 |
| 38 | Post-synthesis functionalization of a zeolitic imidazolate structure ZIF-90: a study on removal of Hg(<scp>ii</scp>) from water and epoxidation of alkenes. CrystEngComm, 2015, 17, 2575-2582. | 2.6 | 85 |
| 39 | Pilot-scale synthesis of a zirconium-benzenedicarboxylate UiO-66 for CO2 adsorption and catalysis. Catalysis Today, 2015, 245, 54-60. | 4.4 | 76 |
| 40 | Bench-scale preparation of Cu3(BTC)2 by ethanol reflux: Synthesis optimization and adsorption/catalytic applications. Microporous and Mesoporous Materials, 2012, 161, 48-55. | 4.4 | 74 |
| 41 | Synthesis of hexagonal and cubic mesoporous silica using power plant bottom ash. Microporous and Mesoporous Materials, 2008, 111, 455-462. | 4.4 | 73 |
| 42 | Highly active palladium nanoparticles immobilized on NH2-MIL-125 as efficient and recyclable catalysts for Suzukiâ€“Miyaura cross coupling reaction. Catalysis Communications, 2015, 65, 91-95. | 3.3 | 73 |
| 43 | Adsorption of volatile organic compounds over MIL-125-NH2. Polyhedron, 2018, 154, 343-349. | 2.2 | 73 |
| 44 | One-pot catalytic transformation of olefins into cyclic carbonates over an imidazolium bromide-functionalized Mn(III)-porphyrin metalâ€“organic framework. Applied Catalysis B: Environmental, 2020, 273, 119059. | 20.2 | 73 |
| 45 | Aminoethanethiol-Grafted Porous Organic Polymer for Hg<sup>2+</sup> Removal in Aqueous Solution. Industrial & Engineering Chemistry Research, 2017, 56, 10174-10182. | 3.7 | 69 |
| 46 | Highly efficient adsorptive removal of sulfamethoxazole from aqueous solutions by porphyrinic MOF-525 and MOF-545. Chemosphere, 2020, 250, 126133. | 8.2 | 68 |
| 47 | Polyethylenimine-incorporated zeolite 13X with mesoporosity for post-combustion CO2 capture. Applied Surface Science, 2015, 332, 167-171. | 6.1 | 67 |
| 48 | Recent Progress in Direct Conversion of Methane to Methanol Over Copper-Exchanged Zeolites. Frontiers in Chemistry, 2019, 7, 514. | 3.6 | 67 |
| 49 | Hydroxylamine-Anchored Covalent Aromatic Polymer for CO<sub>2</sub> Adsorption and Fixation into Cyclic Carbonates. ACS Sustainable Chemistry and Engineering, 2018, 6, 9324-9332. | 6.7 | 66 |
| 50 | Amine-Functionalized Metalâ€“Organic Frameworks and Covalent Organic Polymers as Potential Sorbents for Removal of Formaldehyde in Aqueous Phase: Experimental Versus Theoretical Study. ACS Applied Materials & Interfaces, 2019, 11, 1426-1439. | 8.0 | 65 |
| 51 | Microwave preparation of a titanium-substituted mesoporous molecular sieve. Catalysis Letters, 1999, 59, 45-49. | 2.6 | 64 |
| 52 | A new site-isolated acidâ€“base bifunctional metalâ€“organic framework for one-pot tandem reaction. RSC Advances, 2014, 4, 23064. | 3.6 | 61 |
| 53 | Sonochemical synthesis of Zr-based porphyrinic MOF-525 and MOF-545: Enhancement in catalytic and adsorption properties. Microporous and Mesoporous Materials, 2021, 316, 110985. | 4.4 | 61 |
| 54 | CO<sub>2</sub> Capture by Porous Hyper-Cross-Linked Aromatic Polymers Synthesized Using Tetrahedral Precursors. Industrial & Engineering Chemistry Research, 2016, 55, 7917-7923. | 3.7 | 60 |

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| 55 | Ionic liquid entrapped UiO-66: Efficient adsorbent for Gd3+ capture from water. Chemical Engineering Journal, 2019, 370, 792-799. | 12.7 | 60 |
| 56 | Amine-functionalized MIL-53(Al) for CO2/N2 separation: Effect of textural properties. Fuel, 2012, 102, 574-579. | 6.4 | 58 |
| 57 | Friedelâ€“Crafts Acylation of p-Xylene over Sulfonated Zirconium Terephthalates. Catalysis Letters, 2014, 144, 817-824. | 2.6 | 57 |
| 58 | Adsorption properties of advanced functional materials against gaseous formaldehyde. Environmental Research, 2019, 178, 108672. | 7.5 | 57 |
| 59 | Catalytic transfer hydrogenation of bio-based furfural by palladium supported on nitrogen-doped porous carbon. Catalysis Today, 2019, 324, 49-58. | 4.4 | 56 |
| 60 | Oxygenâ€Deficient NiFe<sub>2</sub>O<sub>4</sub> Spinel Nanoparticles as an Enhanced Electrocatalyst for the Oxygen Evolution Reaction. ChemNanoMat, 2019, 5, 1296-1302. | 2.8 | 55 |
| 61 | Synthesis and Adsorption/Catalytic Properties of the Metal Organic Framework CuBTC. Catalysis Surveys From Asia, 2012, 16, 106-119. | 2.6 | 54 |
| 62 | Mesoporous SAPO-34 with amine-grafting for CO2 capture. Fuel, 2013, 108, 515-520. | 6.4 | 54 |
| 63 | Synthesis of AlPO4-5 and CrAPO-5 using aluminum dross. Journal of Hazardous Materials, 2009, 169, 919-925. | 12.4 | 51 |
| 64 | Poly(amidoamine) dendrimer immobilized on mesoporous silica foam (MSF) and fibrous nano-silica KCC-1 for Gd3+ adsorption in water. Chemical Engineering Journal, 2019, 378, 122133. | 12.7 | 50 |
| 65 | Synthesis of copper nanoparticles supported on a microporous covalent triazine polymer: an efficient and reusable catalyst for O-arylation reaction. Catalysis Science and Technology, 2016, 6, 1701-1709. | 4.1 | 49 |
| 66 | Transfer hydrogenation of nitrobenzene to aniline in water using Pd nanoparticles immobilized on amine-functionalized UiO-66. Catalysis Today, 2018, 303, 227-234. | 4.4 | 49 |
| 67 | Hybrid molecularly imprinted polymers modified by deep eutectic solvents and ionic liquids with three templates for the rapid simultaneous purification of rutin, scoparone, and quercetin from Herba Artemisiae Scopariae. Journal of Separation Science, 2016, 39, 4465-4473. | 2.5 | 48 |
| 68 | Catalytic Transfer Hydrogenation of Furfural to Furfuryl Alcohol by using Ultrasmall Rh Nanoparticles Embedded on Diamineâ€Functionalized KITâ€6. ChemCatChem, 2017, 9, 4570-4579. | 3.7 | 47 |
| 69 | Ti-MCM-36: a new mesoporous epoxidation catalyst. Catalysis Letters, 2007, 113, 160-164. | 2.6 | 46 |
| 70 | Cyclic carbonate synthesis from CO2 and epoxides over diamine-functionalized porous organic frameworks. Journal of CO2 Utilization, 2017, 21, 450-458. | 6.8 | 46 |
| 71 | CO2 capture and MWCNTs synthesis using mesoporous silica and zeolite 13X collectively prepared from bottom ash. Catalysis Today, 2012, 190, 15-22. | 4.4 | 43 |
| 72 | High performance carbon supercapacitor electrodes derived from a triazine-based covalent organic polymer with regular porosity. Electrochimica Acta, 2018, 284, 98-107. | 5.2 | 43 |

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| 73 | Metalâ€“Organic Frameworks for Catalysis. Catalysis Surveys From Asia, 2015, 19, 203-222. | 2.6 | 42 |
| 74 | Benzene triamido-tetraphosphonic acid immobilized on mesoporous silica for adsorption of Nd3+ ions in aqueous solution. Microporous and Mesoporous Materials, 2018, 258, 62-71. | 4.4 | 42 |
| 75 | Recent progress on CO2 capture using amine-functionalized silica. Current Opinion in Green and Sustainable Chemistry, 2019, 16, 26-32. | 5.9 | 42 |
| 76 | Preparation and Application of Porous Materials based on Deep Eutectic Solvents. Critical Reviews in Analytical Chemistry, 2018, 48, 73-85. | 3.5 | 41 |
| 77 | Gd<sup>3+</sup> Adsorption over Carboxylic- and Amino-Group Dual-Functionalized UiO-66. Industrial & Engineering Chemistry Research, 2019, 58, 2324-2332. | 3.7 | 41 |
| 78 | Porous Covalent Organic Polymers Comprising a Phosphite Skeleton for Aqueous Nd(III) Capture. ACS Applied Materials & Interfaces, 2019, 11, 11488-11497. | 8.0 | 41 |
| 79 | Aqueous adsorption of bisphenol A over a porphyrinic porous organic polymer. Chemosphere, 2021, 265, 129161. | 8.2 | 39 |
| 80 | Electrochemical determination of quercetin based on porous aromatic frameworks supported Au nanoparticles. Electrochimica Acta, 2016, 216, 181-187. | 5.2 | 38 |
| 81 | Controlling porosity of porous carbon cathode for lithium oxygen batteries: Influence of micro and meso porosity. Journal of Power Sources, 2018, 389, 20-27. | 7.8 | 38 |
| 82 | MgFeAl layered double hydroxide prepared from recycled industrial solid wastes for CO2 fixation by cycloaddition to epoxides. Journal of CO2 Utilization, 2019, 34, 395-403. | 6.8 | 37 |
| 83 | Competitive adsorption of gaseous aromatic hydrocarbons in a binary mixture on nanoporous covalent organic polymers at various partial pressures. Environmental Research, 2019, 173, 1-11. | 7.5 | 37 |
| 84 | Microporous organic polymers for efficient removal of sulfamethoxazole from aqueous solutions. Microporous and Mesoporous Materials, 2020, 296, 109979. | 4.4 | 37 |
| 85 | Triphenylamine-based covalent imine framework for CO2 capture and catalytic conversion into cyclic carbonates. Microporous and Mesoporous Materials, 2020, 297, 110011. | 4.4 | 36 |
| 86 | Synthesis of mesoporous silica from bottom ash and its application for CO2 sorption. Korean Journal of Chemical Engineering, 2010, 27, 1010-1014. | 2.7 | 35 |
| 87 | Chabazite and zeolite 13X for CO2 capture under high pressure and moderate temperature conditions. Chemical Communications, 2014, 50, 4927. | 4.1 | 35 |
| 88 | Porous NH2-MIL-125 as an efficient nano-platform for drug delivery, imaging, and ROS therapy utilized Low-Intensity Visible light exposure system. Colloids and Surfaces B: Biointerfaces, 2017, 160, 1-10. | 5.0 | 34 |
| 89 | Aqueous adsorption of sulfamethoxazole on an N-doped zeolite beta-templated carbon. Journal of Colloid and Interface Science, 2021, 582, 467-477. | 9.4 | 33 |
| 90 | Facile synthesis of a mesoporous organic polymer grafted with 2-aminoethanethiol for Hg2+ removal. Microporous and Mesoporous Materials, 2018, 271, 59-67. | 4.4 | 32 |

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|---|---|---|---|
| 91 | Minimizing energy demand and environmental impact for sustainable NH3 and H2O2 productionâ€"A perspective on contributions from thermal, electro-, and photo-catalysis. Applied Catalysis A: General, 2020, 594, 117419. | 4.3 | 32 |
| 92 | Zeolite-Like Metal Organic Framework (ZMOF) with a rho Topology for a CO<sub>2</sub> Cycloaddition to Epoxides. ACS Sustainable Chemistry and Engineering, 2020, 8, 7078-7086. | 6.7 | 32 |
| 93 | Porphyrinic zirconium metal-organic frameworks: Synthesis and applications for adsorption/catalysis. Korean Journal of Chemical Engineering, 2021, 38, 653-673. | 2.7 | 32 |
| 94 | Synthesis of a sulfonato-salen-nickel(ii) complex immobilized in LDH for tetralinoxidation. New Journal of Chemistry, 2010, 34, 156-162. | 2.8 | 30 |
| 95 | Ethylenediamine grafting on a zeolite-like metal organic framework (ZMOF) for CO2 capture. Materials Letters, 2013, 106, 344-347. | 2.6 | 30 |
| 96 | Catalytic dehydrogenation of formic acid over palladium nanoparticles immobilized on fibrous mesoporous silica KCC-1. Chinese Journal of Catalysis, 2019, 40, 1704-1712. | 14.0 | 30 |
| 97 | Calcium oxide as high temperature CO2 sorbent: Effect of textural properties. Materials Letters, 2012, 75, 140-142. | 2.6 | 29 |
| 98 | Covalent Triazine Polymerâ€"Fe<sub>3</sub>O<sub>4</sub> Nanocomposite for Strontium Ion Removal from Seawater. Industrial & Engineering Chemistry Research, 2017, 56, 4984-4992. | 3.7 | 29 |
| 99 | Diphenylmethane synthesis using ionic liquids as lewis acid catalyst. Korean Journal of Chemical Engineering, 2003, 20, 39-43. | 2.7 | 28 |
| 100 | Ullmann coupling of aryl chlorides in water catalyzed by palladium nanoparticles supported on amine-grafted porous aromatic polymer. Molecular Catalysis, 2017, 437, 73-79. | 2.0 | 28 |
| 101 | Co- and Mn-Coimpregnated ZSM-5 Prepared from Recycled Industrial Solid Wastes for Low-Temperature NH<sub>3</sub>-SCR. Industrial & Engineering Chemistry Research, 2019, 58, 22857-22865. | 3.7 | 28 |
| 102 | Tetralin oxidation over chromium-containing molecular sieve catalysts. Catalysis Today, 2008, 132, 52-57. | 4.4 | 27 |
| 103 | CrAPO-5 catalysts having a hierarchical pore structure for the selective oxidation of tetralin to 1-tetralone. New Journal of Chemistry, 2010, 34, 2971. | 2.8 | 26 |
| 104 | <scp>CO<sub>2</sub></scp> Capture and Ca<sup>2+</sup> Exchange Using Zeolite A and <scp>13X</scp> Prepared from Power Plant Fly Ash. Bulletin of the Korean Chemical Society, 2016, 37, 490-493. | 1.9 | 26 |
| 105 | Fly ash-derived mesoporous silica foams for CO2 capture and aqueous Nd3+ adsorption. Journal of Industrial and Engineering Chemistry, 2019, 72, 241-249. | 5.8 | 25 |
| 106 | Facile synthesis of an IRMOF-3 membrane on porous Al2O3 substrate via a sonochemical route. Microporous and Mesoporous Materials, 2015, 213, 161-168. | 4.4 | 23 |
| 107 | Cycloaddition of CO2 and epoxides over a porous covalent triazine-based polymer incorporated with Fe3O4. New Journal of Chemistry, 2018, 42, 12429-12436. | 2.8 | 23 |
| 108 | Application of Zr-Cluster-Based MOFs for the Adsorptive Removal of Aliphatic Aldehydes (C<sub>1</sub> to C<sub>5</sub>) from an Industrial Solvent. ACS Applied Materials & Interfaces, 2019, 11, 44270-44281. | 8.0 | 23 |

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|---|---|---|---|
| 109 | Synthesis of cubic mesoporous silica and carbon using fly ash. Journal of Non-Crystalline Solids, 2008, 354, 4027-4030. | 3.1 | 22 |
| 110 | Ti-MWW Synthesis and Catalytic Applications in Partial Oxidation Reactions. Topics in Catalysis, 2010, 53, 470-478. | 2.8 | 21 |
| 111 | Dual-functionalized porous organic polymer as reusable catalyst for one-pot cascade C C bond-forming reactions. Molecular Catalysis, 2017, 441, 1-9. | 2.0 | 20 |
| 112 | Metal-free oxidative desulfurization over a microporous triazine polymer catalyst under ambient conditions. Fuel Processing Technology, 2020, 207, 106469. | 7.2 | 20 |
| 113 | Cascade Knoevenagel condensation-chemoselective transfer hydrogenation catalyzed by Pd nanoparticles stabilized on amine-functionalized aromatic porous polymer. Catalysis Today, 2020, 352, 298-307. | 4.4 | 19 |
| 114 | Direct synthesis of oxygenates via partial oxidation of methane in the presence of O2 and H2 over a combination of Fe-ZSM-5 and Pd supported on an acid-functionalized porous polymer. Applied Catalysis A: General, 2020, 602, 117711. | 4.3 | 19 |
| 115 | Amine-functionalized microporous covalent organic polymers for adsorptive removal of a gaseous aliphatic aldehyde mixture. Environmental Science: Nano, 2020, 7, 3447-3468. | 4.3 | 18 |
| 116 | Metal-free aerobic oxidative desulfurization over a diethyltriamine-functionalized aromatic porous polymer. Fuel Processing Technology, 2021, 215, 106741. | 7.2 | 18 |
| 117 | Aqueous Nd3+ capture using a carboxyl-functionalized porous carbon derived from ZIF-8. Journal of Colloid and Interface Science, 2021, 594, 702-712. | 9.4 | 18 |
| 118 | Synthesis, characterization, and applications of organic-inorganic hybrid mesoporous silica. Korean Journal of Chemical Engineering, 2004, 21, 132-139. | 2.7 | 17 |
| 119 | Heteroatom-doped porous carbon electrodes derived from a carbonyl-based aromatic porous polymer for supercapacitors. Synthetic Metals, 2018, 243, 115-120. | 3.9 | 17 |
| 120 | CO2 cycloaddition to epichlorohydrin over an aluminum fumarate metal-organic framework synthesized by a sonochemical route. Microporous and Mesoporous Materials, 2020, 306, 110432. | 4.4 | 17 |
| 121 | Heterogeneous Aza-Michael Addition Reaction by the Copper-Based Metalâ€“Organic Framework (CuBTC). Catalysis Letters, 2021, 151, 2011-2018. | 2.6 | 16 |
| 122 | Electrocatalytic oxygen reduction over Co@Co3O4/N-doped porous carbon derived from pyrolysis of ZIF-8/67 on cellulose nanofibers. Cellulose, 2020, 27, 2723-2735. | 4.9 | 15 |
| 123 | Effects of polydimethylsiloxane coating of Ni-MOF-74 on CH4 storage. Korean Journal of Chemical Engineering, 2018, 35, 1542-1546. | 2.7 | 14 |
| 124 | Pd nanoparticles on a dual acid-functionalized porous polymer for direct synthesis of H2O2: Contribution by enhanced H2 storage capacity. Journal of Industrial and Engineering Chemistry, 2020, 81, 375-384. | 5.8 | 14 |
| 125 | Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen over Pdâ€supported Metalâ€Organic Framework Catalysts. Bulletin of the Korean Chemical Society, 2015, 36, 1378-1383. | 1.9 | 13 |
| 126 | Ti-MIL-125-NH<sub>2</sub> membrane grown on a TiO<sub>2</sub> disc by combined microwave/ultrasonic heating: facile synthesis for catalytic application. RSC Advances, 2016, 6, 63286-63290. | 3.6 | 13 |

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| 127 | The effects of continuous- and stop-flow gas streams on adsorptive removal of benzene vapor using type â€“ II covalent organic polymers. Environmental Research, 2020, 182, 109043. | 7.5 | 13 |
| 128 | <scp>CO<sub>2</sub></scp> Cycloaddition of Epichlorohydrin over <scp>NH<sub>2</sub></scp>â€Functionalized <scp>MIL</scp>â€101. Bulletin of the Korean Chemical Society, 2015, 36, 363-366. | 1.9 | 12 |
| 129 | An investigation on the selective hydrodealkylation of C<sub>9</sub><sup>+</sup> aromatics over alkali-treated Pt/H-ZSM-5 zeolites. Catalysis Science and Technology, 2016, 6, 5599-5607. | 4.1 | 12 |
| 130 | Pd(II)-immobilized on a nanoporous triazine-based covalent imine framework for facile cyanation of haloarenes with K4Fe(CN)6. Molecular Catalysis, 2019, 473, 110395. | 2.0 | 12 |
| 131 | Morphology control of MSU-1 silica particles. Journal of Non-Crystalline Solids, 2008, 354, 1-9. | 3.1 | 10 |
| 132 | Title is missing!. Reaction Kinetics and Catalysis Letters, 2000, 71, 273-279. | 0.6 | 8 |
| 133 | Physicochemical properties of Ti-grafted SBA-15. Reaction Kinetics and Catalysis Letters, 2004, 82, 27-32. | 0.6 | 8 |
| 134 | Iron oxide/MCM-41 mesoporous nanocomposites and their magnetorheology. Colloid and Polymer Science, 2013, 291, 1895-1901. | 2.1 | 8 |
| 135 | Nanoporous Fe-MCM-22 Additive Effect on Magnetorheological Response of Magnetic Carbonyl Iron Suspension. IEEE Transactions on Magnetics, 2013, 49, 3410-3413. | 2.1 | 8 |
| 136 | Synthesis gas production process for natural gas conversion over Niâ€“La2O3 catalyst. Journal of Industrial and Engineering Chemistry, 2015, 28, 229-235. | 5.8 | 8 |
| 137 | SYNTHESIS AND ELECTRORHEOLOGY OF MESOPOROUS PARTICLS SUSPENSIONS. International Journal of Modern Physics B, 2002, 16, 2514-2520. | 2.0 | 7 |
| 138 | Preparation and humidity-sensing properties of nanostructured potassium tantalate thin films. Journal of Materials Science: Materials in Electronics, 2004, 15, 25-28. | 2.2 | 7 |
| 139 | Hydrothermal synthesis of zeolite L in a Na+/K+ mixed alkali system. Korean Journal of Chemical Engineering, 2008, 25, 1546-1552. | 2.7 | 7 |
| 140 | Facile synthesis of Ti-TUD-1 for catalytic oxidative desulfurization of model sulfur compounds. Research on Chemical Intermediates, 2011, 37, 1267-1273. | 2.7 | 7 |
| 141 | Sonochemical synthesis of rho-ZMOF catalyst for an enhanced CO2 cycloaddition reaction. Materials Letters, 2020, 277, 128387. | 2.6 | 7 |
| 142 | Extensions in the synthesis and catalytic application of titanium silicalite-1. Catalysis Surveys From Asia, 2005, 9, 51-60. | 2.6 | 6 |
| 143 | Hydrothermal synthesis and characterization of Fe(III)-substituted mordenites. Korean Journal of Chemical Engineering, 2008, 25, 1286-1291. | 2.7 | 6 |
| 144 | Synthesis of hexagonal mesoporous aluminophosphate using Al dross. Korean Journal of Chemical Engineering, 2009, 26, 1389-1394. | 2.7 | 6 |

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| 145 | Synthesis of organicâ€“inorganic hybrid MSU-1 for separation and catalytic applications. Microporous and Mesoporous Materials, 2010, 132, 232-238. | 4.4 | 6 |
| 146 | Oxidation of tetralin to 1-tetralone over CrAPO-5. Korean Journal of Chemical Engineering, 2017, 34, 701-705. | 2.7 | 5 |
| 147 | Electrorheological response of microporous covalent triazine-based polymeric particles. Colloid and Polymer Science, 2018, 296, 907-915. | 2.1 | 5 |
| 148 | Electroresponsive Polymerâ€“Inorganic Semiconducting Composite (MCTPâ€“Fe<sub>3</sub>O<sub>4</sub>) Particles and Their Electrorheology. ACS Omega, 2018, 3, 17246-17253. | 3.5 | 5 |
| 149 | Humidity sensing properties of nanostructured- bilayered potassium tantalate: Titania films. Journal of Materials Science: Materials in Electronics, 2005, 16, 517-521. | 2.2 | 4 |
| 150 | Phase transition of mesoporous SiO2 impregnated with an organic templating agent by post-synthetic microwave heating. Journal of Porous Materials, 2008, 15, 93-99. | 2.6 | 4 |
| 151 | Hydrothermal conversion of ETS-10 to TS-1. Journal of Porous Materials, 2011, 18, 133-138. | 2.6 | 4 |
| 152 | Sodium silicate insulating foam reinforced with acid-treated fly ash. Materials Letters, 2018, 218, 56-59. | 2.6 | 3 |
| 153 | A study of intramolecular electron exchange in copper-radical complexes involved in catalysis using ESR spectroscopy. Korean Journal of Chemical Engineering, 1997, 14, 394-398. | 2.7 | 2 |
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