

Wha-Seung Ahn

List of Publications by Year in descending order

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160
papers

11,830
citations

32410

55
h-index

33145

104
g-index

163
all docs

163
docs citations

163
times ranked

13339
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorptive removal of carbon dioxide using polyethyleneimine-loaded mesoporous silica materials. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 31-40.	2.2	532
2	Synthesis of metal-organic frameworks: A mini review. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1667-1680.	1.2	487
3	CO ₂ capture and conversion using Mg-MOF-74 prepared by a sonochemical method. <i>Energy and Environmental Science</i> , 2012, 5, 6465-6473.	15.6	463
4	ZIF-8: A comparison of synthesis methods. <i>Chemical Engineering Journal</i> , 2015, 271, 276-280.	6.6	462
5	Adsorption/catalytic properties of MIL-125 and NH ₂ -MIL-125. <i>Catalysis Today</i> , 2013, 204, 85-93.	2.2	406
6	Sonochemical synthesis of MOF-5. <i>Chemical Communications</i> , 2008, , 6336.	2.2	388
7	CO ₂ cycloaddition of styrene oxide over MOF catalysts. <i>Applied Catalysis A: General</i> , 2013, 453, 175-180.	2.2	359
8	Amine-impregnated silica monolith with a hierarchical pore structure: enhancement of CO ₂ capture capacity. <i>Chemical Communications</i> , 2009, , 3627.	2.2	301
9	CO ₂ adsorption and catalytic application of Co-MOF-74 synthesized by microwave heating. <i>Catalysis Today</i> , 2012, 185, 35-40.	2.2	290
10	Metal-organic framework MOF-5 prepared by microwave heating: Factors to be considered. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 727-731.	2.2	285
11	Triazine-based covalent organic polymers: design, synthesis and applications in heterogeneous catalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16288-16311.	5.2	271
12	Control of catenation in CuTATB-n metal-organic frameworks by sonochemical synthesis and its effect on CO ₂ adsorption. <i>Journal of Materials Chemistry</i> , 2011, 21, 3070.	6.7	225
13	Chromium terephthalate metal-organic framework MIL-101: synthesis, functionalization, and applications for adsorption and catalysis. <i>RSC Advances</i> , 2014, 4, 52500-52525.	1.7	217
14	MFI Titanosilicate Nanosheets with Single-Unit-Cell Thickness as an Oxidation Catalyst Using Peroxides. <i>ACS Catalysis</i> , 2011, 1, 901-907.	5.5	206
15	High yield 1-L scale synthesis of ZIF-8 via a sonochemical route. <i>Microporous and Mesoporous Materials</i> , 2013, 169, 180-184.	2.2	199
16	Amine-Functionalized MIL-125 with Imbedded Palladium Nanoparticles as an Efficient Catalyst for Dehydrogenation of Formic Acid at Ambient Temperature. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22805-22810.	1.5	188
17	CO ₂ adsorption over ion-exchanged zeolite beta with alkali and alkaline earth metal ions. <i>Microporous and Mesoporous Materials</i> , 2010, 135, 90-94.	2.2	170
18	Carbon dioxide capture using amine-impregnated HMS having textural mesoporosity. <i>Chemical Engineering Journal</i> , 2010, 161, 46-52.	6.6	161

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19	Microporous covalent triazine polymers: efficient Friedel-Crafts synthesis and adsorption/storage of CO ₂ and CH ₄ . Journal of Materials Chemistry A, 2015, 3, 6792-6797.	5.2	160
20	Selective Adsorption of Rare Earth Elements over Functionalized Cr-MIL-101. ACS Applied Materials & Interfaces, 2018, 10, 23918-23927.	4.0	160
21	Facile synthesis of covalent organic frameworks COF-1 and COF-5 by sonochemical method. RSC Advances, 2012, 2, 10179.	1.7	159
22	CO ₂ capture by amine-functionalized nanoporous materials: A review. Korean Journal of Chemical Engineering, 2014, 31, 1919-1934.	1.2	148
23	Amine-silica composites for CO ₂ capture: A short review. Journal of Energy Chemistry, 2017, 26, 868-880.	7.1	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.	6.6	143
25	EDTA-functionalized KCC-1 and KIT-6 mesoporous silicas for Nd ³⁺ ion recovery from aqueous solutions. Journal of Industrial and Engineering Chemistry, 2018, 67, 210-218.	2.9	143
26	CO ₂ capture using zeolite 13X prepared from bentonite. Applied Surface Science, 2014, 292, 63-67.	3.1	136
27	Synthesis of mesoporous materials SBA-15 and CMK-3 from fly ash and their application for CO ₂ adsorption. Journal of Porous Materials, 2009, 16, 545-551.	1.3	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.	2.2	133
29	Microporous amine-functionalized aromatic polymers and their carbonized products for CO ₂ adsorption. Chemical Engineering Journal, 2017, 319, 65-74.	6.6	123
30	Zeolitic Imidazolate Frameworks: Synthesis, Functionalization, and Catalytic/Adsorption Applications. Catalysis Surveys From Asia, 2014, 18, 101-127.	1.0	119
31	Efficient carbon dioxide capture over a nitrogen-rich carbon having a hierarchical micro-mesopore structure. Fuel, 2012, 95, 360-364.	3.4	118
32	Enhanced adsorptive removal of fluoride using mesoporous alumina. Microporous and Mesoporous Materials, 2010, 127, 152-156.	2.2	116
33	CO ₂ adsorption and conversion into cyclic carbonates over a porous ZnBr ₂ -grafted N-heterocyclic carbene-based aromatic polymer. Applied Catalysis B: Environmental, 2019, 251, 195-205.	10.8	112
34	Covalent triazine polymers using a cyanuric chloride precursor via Friedel-Crafts reaction for CO ₂ adsorption/separation. Chemical Engineering Journal, 2016, 283, 184-192.	6.6	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.	6.6	101
36	Post-synthesis functionalization of MIL-101 using diethylenetriamine: a study on adsorption and catalysis. CrystEngComm, 2012, 14, 4142.	1.3	94

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37	Porous Covalent Triazine Polymer as a Potential Nanocargo for Cancer Therapy and Imaging. ACS Applied Materials & Interfaces, 2016, 8, 8947-8955.	4.0	87
38	Post-synthesis functionalization of a zeolitic imidazolate structure ZIF-90: a study on removal of Hg(sc^{p}) from water and epoxidation of alkenes. CrystEngComm, 2015, 17, 2575-2582.	1.3	85
39	Pilot-scale synthesis of a zirconium-benzenedicarboxylate UiO-66 for CO ₂ adsorption and catalysis. Catalysis Today, 2015, 245, 54-60.	2.2	76
40	Bench-scale preparation of Cu ₃ (BTC) ₂ by ethanol reflux: Synthesis optimization and adsorption/catalytic applications. Microporous and Mesoporous Materials, 2012, 161, 48-55.	2.2	74
41	Synthesis of hexagonal and cubic mesoporous silica using power plant bottom ash. Microporous and Mesoporous Materials, 2008, 111, 455-462.	2.2	73
42	Highly active palladium nanoparticles immobilized on NH ₂ -MIL-125 as efficient and recyclable catalysts for Suzuki-Miyaura cross coupling reaction. Catalysis Communications, 2015, 65, 91-95.	1.6	73
43	Adsorption of volatile organic compounds over MIL-125-NH ₂ . Polyhedron, 2018, 154, 343-349.	1.0	73
44	One-pot catalytic transformation of olefins into cyclic carbonates over an imidazolium bromide-functionalized Mn(III)-porphyrin metal-organic framework. Applied Catalysis B: Environmental, 2020, 273, 119059.	10.8	73
45	Aminoethanethiol-Grafted Porous Organic Polymer for Hg ²⁺ Removal in Aqueous Solution. Industrial & Engineering Chemistry Research, 2017, 56, 10174-10182.	1.8	69
46	Highly efficient adsorptive removal of sulfamethoxazole from aqueous solutions by porphyrinic MOF-525 and MOF-545. Chemosphere, 2020, 250, 126133.	4.2	68
47	Polyethylenimine-incorporated zeolite 13X with mesoporosity for post-combustion CO ₂ capture. Applied Surface Science, 2015, 332, 167-171.	3.1	67
48	Recent Progress in Direct Conversion of Methane to Methanol Over Copper-Exchanged Zeolites. Frontiers in Chemistry, 2019, 7, 514.	1.8	67
49	Hydroxylamine-Anchored Covalent Aromatic Polymer for CO ₂ Adsorption and Fixation into Cyclic Carbonates. ACS Sustainable Chemistry and Engineering, 2018, 6, 9324-9332.	3.2	66
50	Amine-Functionalized Metal-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.	4.0	65
51	Microwave preparation of a titanium-substituted mesoporous molecular sieve. Catalysis Letters, 1999, 59, 45-49.	1.4	64
52	A new site-isolated acid-base bifunctional metal-organic framework for one-pot tandem reaction. RSC Advances, 2014, 4, 23064.	1.7	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.	2.2	61
54	CO ₂ Capture by Porous Hyper-Cross-Linked Aromatic Polymers Synthesized Using Tetrahedral Precursors. Industrial & Engineering Chemistry Research, 2016, 55, 7917-7923.	1.8	60

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55	Ionic liquid entrapped UiO-66: Efficient adsorbent for Gd ³⁺ capture from water. <i>Chemical Engineering Journal</i> , 2019, 370, 792-799.	6.6	60
56	Amine-functionalized MIL-53(Al) for CO ₂ /N ₂ separation: Effect of textural properties. <i>Fuel</i> , 2012, 102, 574-579.	3.4	58
57	Friedel-Crafts Acylation of p-Xylene over Sulfonated Zirconium Terephthalates. <i>Catalysis Letters</i> , 2014, 144, 817-824.	1.4	57
58	Adsorption properties of advanced functional materials against gaseous formaldehyde. <i>Environmental Research</i> , 2019, 178, 108672.	3.7	57
59	Catalytic transfer hydrogenation of bio-based furfural by palladium supported on nitrogen-doped porous carbon. <i>Catalysis Today</i> , 2019, 324, 49-58.	2.2	56
60	Oxygen-deficient NiFe ₂ O ₄ Spinel Nanoparticles as an Enhanced Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemNanoMat</i> , 2019, 5, 1296-1302.	1.5	55
61	Synthesis and Adsorption/Catalytic Properties of the Metal Organic Framework CuBTC. <i>Catalysis Surveys From Asia</i> , 2012, 16, 106-119.	1.0	54
62	Mesoporous SAPO-34 with amine-grafting for CO ₂ capture. <i>Fuel</i> , 2013, 108, 515-520.	3.4	54
63	Synthesis of AlPO ₄ -5 and CrAPO-5 using aluminum dross. <i>Journal of Hazardous Materials</i> , 2009, 169, 919-925.	6.5	51
64	Poly(amidoamine) dendrimer immobilized on mesoporous silica foam (MSF) and fibrous nano-silica KCC-1 for Gd ³⁺ adsorption in water. <i>Chemical Engineering Journal</i> , 2019, 378, 122133.	6.6	50
65	Synthesis of copper nanoparticles supported on a microporous covalent triazine polymer: an efficient and reusable catalyst for O-arylation reaction. <i>Catalysis Science and Technology</i> , 2016, 6, 1701-1709.	2.1	49
66	Transfer hydrogenation of nitrobenzene to aniline in water using Pd nanoparticles immobilized on amine-functionalized UiO-66. <i>Catalysis Today</i> , 2018, 303, 227-234.	2.2	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 <i>Herba Artemisiae Scopariae</i> . <i>Journal of Separation Science</i> , 2016, 39, 4465-4473.	1.3	48
68	Catalytic Transfer Hydrogenation of Furfural to Furfuryl Alcohol by using Ultrasmall Rh Nanoparticles Embedded on Diamine-Functionalized KIT-6. <i>ChemCatChem</i> , 2017, 9, 4570-4579.	1.8	47
69	Ti-MCM-36: a new mesoporous epoxidation catalyst. <i>Catalysis Letters</i> , 2007, 113, 160-164.	1.4	46
70	Cyclic carbonate synthesis from CO ₂ and epoxides over diamine-functionalized porous organic frameworks. <i>Journal of CO₂ Utilization</i> , 2017, 21, 450-458.	3.3	46
71	CO ₂ capture and MWCNTs synthesis using mesoporous silica and zeolite 13X collectively prepared from bottom ash. <i>Catalysis Today</i> , 2012, 190, 15-22.	2.2	43
72	High performance carbon supercapacitor electrodes derived from a triazine-based covalent organic polymer with regular porosity. <i>Electrochimica Acta</i> , 2018, 284, 98-107.	2.6	43

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73	Metal-Organic Frameworks for Catalysis. <i>Catalysis Surveys From Asia</i> , 2015, 19, 203-222.	1.0	42
74	Benzene triamido-tetraphosphonic acid immobilized on mesoporous silica for adsorption of Nd ³⁺ ions in aqueous solution. <i>Microporous and Mesoporous Materials</i> , 2018, 258, 62-71.	2.2	42
75	Recent progress on CO ₂ capture using amine-functionalized silica. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2019, 16, 26-32.	3.2	42
76	Preparation and Application of Porous Materials based on Deep Eutectic Solvents. <i>Critical Reviews in Analytical Chemistry</i> , 2018, 48, 73-85.	1.8	41
77	Gd ³⁺ Adsorption over Carboxylic- and Amino-Group Dual-Functionalized UiO-66. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2324-2332.	1.8	41
78	Porous Covalent Organic Polymers Comprising a Phosphite Skeleton for Aqueous Nd(III) Capture. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11488-11497.	4.0	41
79	Aqueous adsorption of bisphenol A over a porphyrinic porous organic polymer. <i>Chemosphere</i> , 2021, 265, 129161.	4.2	39
80	Electrochemical determination of quercetin based on porous aromatic frameworks supported Au nanoparticles. <i>Electrochimica Acta</i> , 2016, 216, 181-187.	2.6	38
81	Controlling porosity of porous carbon cathode for lithium oxygen batteries: Influence of micro and meso porosity. <i>Journal of Power Sources</i> , 2018, 389, 20-27.	4.0	38
82	MgFeAl layered double hydroxide prepared from recycled industrial solid wastes for CO ₂ fixation by cycloaddition to epoxides. <i>Journal of CO₂ Utilization</i> , 2019, 34, 395-403.	3.3	37
83	Competitive adsorption of gaseous aromatic hydrocarbons in a binary mixture on nanoporous covalent organic polymers at various partial pressures. <i>Environmental Research</i> , 2019, 173, 1-11.	3.7	37
84	Microporous organic polymers for efficient removal of sulfamethoxazole from aqueous solutions. <i>Microporous and Mesoporous Materials</i> , 2020, 296, 109979.	2.2	37
85	Triphenylamine-based covalent imine framework for CO ₂ capture and catalytic conversion into cyclic carbonates. <i>Microporous and Mesoporous Materials</i> , 2020, 297, 110011.	2.2	36
86	Synthesis of mesoporous silica from bottom ash and its application for CO ₂ sorption. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1010-1014.	1.2	35
87	Chabazite and zeolite 13X for CO ₂ capture under high pressure and moderate temperature conditions. <i>Chemical Communications</i> , 2014, 50, 4927.	2.2	35
88	Porous NH ₂ -MIL-125 as an efficient nano-platform for drug delivery, imaging, and ROS therapy utilized Low-Intensity Visible light exposure system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 1-10.	2.5	34
89	Aqueous adsorption of sulfamethoxazole on an N-doped zeolite beta-templated carbon. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 467-477.	5.0	33
90	Facile synthesis of a mesoporous organic polymer grafted with 2-aminoethanethiol for Hg ²⁺ removal. <i>Microporous and Mesoporous Materials</i> , 2018, 271, 59-67.	2.2	32

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91	Minimizing energy demand and environmental impact for sustainable NH ₃ and H ₂ O ₂ production—A perspective on contributions from thermal, electro-, and photo-catalysis. <i>Applied Catalysis A: General</i> , 2020, 594, 117419.	2.2	32
92	Zeolite-Like Metal Organic Framework (ZMOF) with a ρ Topology for a CO ₂ Cycloaddition to Epoxides. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7078-7086.	3.2	32
93	Porphyric zirconium metal-organic frameworks: Synthesis and applications for adsorption/catalysis. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 653-673.	1.2	32
94	Synthesis of a sulfonato-salen-nickel(ii) complex immobilized in LDH for tetralin oxidation. <i>New Journal of Chemistry</i> , 2010, 34, 156-162.	1.4	30
95	Ethylenediamine grafting on a zeolite-like metal organic framework (ZMOF) for CO ₂ capture. <i>Materials Letters</i> , 2013, 106, 344-347.	1.3	30
96	Catalytic dehydrogenation of formic acid over palladium nanoparticles immobilized on fibrous mesoporous silica KCC-1. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1704-1712.	6.9	30
97	Calcium oxide as high temperature CO ₂ sorbent: Effect of textural properties. <i>Materials Letters</i> , 2012, 75, 140-142.	1.3	29
98	Covalent Triazine Polymer—Fe ₃ O ₄ Nanocomposite for Strontium Ion Removal from Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4984-4992.	1.8	29
99	Diphenylmethane synthesis using ionic liquids as lewis acid catalyst. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 39-43.	1.2	28
100	Ullmann coupling of aryl chlorides in water catalyzed by palladium nanoparticles supported on amine-grafted porous aromatic polymer. <i>Molecular Catalysis</i> , 2017, 437, 73-79.	1.0	28
101	Co- and Mn-Coimpregnated ZSM-5 Prepared from Recycled Industrial Solid Wastes for Low-Temperature NH ₃ -SCR. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22857-22865.	1.8	28
102	Tetralin oxidation over chromium-containing molecular sieve catalysts. <i>Catalysis Today</i> , 2008, 132, 52-57.	2.2	27
103	CrAPO-5 catalysts having a hierarchical pore structure for the selective oxidation of tetralin to 1-tetralone. <i>New Journal of Chemistry</i> , 2010, 34, 2971.	1.4	26
104	CO ₂ Capture and Ca ²⁺ Exchange Using Zeolite A and 13X Prepared from Power Plant Fly Ash. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 490-493.	1.0	26
105	Fly ash-derived mesoporous silica foams for CO ₂ capture and aqueous Nd ³⁺ adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 241-249.	2.9	25
106	Facile synthesis of an IRMOF-3 membrane on porous Al ₂ O ₃ substrate via a sonochemical route. <i>Microporous and Mesoporous Materials</i> , 2015, 213, 161-168.	2.2	23
107	Cycloaddition of CO ₂ and epoxides over a porous covalent triazine-based polymer incorporated with Fe ₃ O ₄ . <i>New Journal of Chemistry</i> , 2018, 42, 12429-12436.	1.4	23
108	Application of Zr-Cluster-Based MOFs for the Adsorptive Removal of Aliphatic Aldehydes (C ₁ to C ₅) from an Industrial Solvent. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44270-44281.	4.0	23

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109	Synthesis of cubic mesoporous silica and carbon using fly ash. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4027-4030.	1.5	22
110	Ti-MWW Synthesis and Catalytic Applications in Partial Oxidation Reactions. <i>Topics in Catalysis</i> , 2010, 53, 470-478.	1.3	21
111	Dual-functionalized porous organic polymer as reusable catalyst for one-pot cascade C C bond-forming reactions. <i>Molecular Catalysis</i> , 2017, 441, 1-9.	1.0	20
112	Metal-free oxidative desulfurization over a microporous triazine polymer catalyst under ambient conditions. <i>Fuel Processing Technology</i> , 2020, 207, 106469.	3.7	20
113	Cascade Knoevenagel condensation-chemoselective transfer hydrogenation catalyzed by Pd nanoparticles stabilized on amine-functionalized aromatic porous polymer. <i>Catalysis Today</i> , 2020, 352, 298-307.	2.2	19
114	Direct synthesis of oxygenates via partial oxidation of methane in the presence of O ₂ and H ₂ over a combination of Fe-ZSM-5 and Pd supported on an acid-functionalized porous polymer. <i>Applied Catalysis A: General</i> , 2020, 602, 117711.	2.2	19
115	Amine-functionalized microporous covalent organic polymers for adsorptive removal of a gaseous aliphatic aldehyde mixture. <i>Environmental Science: Nano</i> , 2020, 7, 3447-3468.	2.2	18
116	Metal-free aerobic oxidative desulfurization over a diethyltriamine-functionalized aromatic porous polymer. <i>Fuel Processing Technology</i> , 2021, 215, 106741.	3.7	18
117	Aqueous Nd ³⁺ capture using a carboxyl-functionalized porous carbon derived from ZIF-8. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 702-712.	5.0	18
118	Synthesis, characterization, and applications of organic-inorganic hybrid mesoporous silica. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 132-139.	1.2	17
119	Heteroatom-doped porous carbon electrodes derived from a carbonyl-based aromatic porous polymer for supercapacitors. <i>Synthetic Metals</i> , 2018, 243, 115-120.	2.1	17
120	CO ₂ cycloaddition to epichlorohydrin over an aluminum fumarate metal-organic framework synthesized by a sonochemical route. <i>Microporous and Mesoporous Materials</i> , 2020, 306, 110432.	2.2	17
121	Heterogeneous Aza-Michael Addition Reaction by the Copper-Based Metal-Organic Framework (CuBTC). <i>Catalysis Letters</i> , 2021, 151, 2011-2018.	1.4	16
122	Electrocatalytic oxygen reduction over Co@Co ₃ O ₄ /N-doped porous carbon derived from pyrolysis of ZIF-8/67 on cellulose nanofibers. <i>Cellulose</i> , 2020, 27, 2723-2735.	2.4	15
123	Effects of polydimethylsiloxane coating of Ni-MOF-74 on CH ₄ storage. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1542-1546.	1.2	14
124	Pd nanoparticles on a dual acid-functionalized porous polymer for direct synthesis of H ₂ O ₂ : Contribution by enhanced H ₂ storage capacity. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 375-384.	2.9	14
125	Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen over Pd-supported Metal-Organic Framework Catalysts. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1378-1383.	1.0	13
126	Ti-MIL-125-NH ₂ membrane grown on a TiO ₂ disc by combined microwave/ultrasonic heating: facile synthesis for catalytic application. <i>RSC Advances</i> , 2016, 6, 63286-63290.	1.7	13

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127	The effects of continuous- and stop-flow gas streams on adsorptive removal of benzene vapor using type II covalent organic polymers. <i>Environmental Research</i> , 2020, 182, 109043.	3.7	13
128	CO_2 Cycloaddition of Epichlorohydrin over NH_2 -functionalized MIL-101. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 363-366.	1.0	12
129	An investigation on the selective hydrodealkylation of C_9 aromatics over alkali-treated Pt/H-ZSM-5 zeolites. <i>Catalysis Science and Technology</i> , 2016, 6, 5599-5607.	2.1	12
130	Pd(II)-immobilized on a nanoporous triazine-based covalent imine framework for facile cyanation of haloarenes with $\text{K}_4\text{Fe}(\text{CN})_6$. <i>Molecular Catalysis</i> , 2019, 473, 110395.	1.0	12
131	Morphology control of MSU-1 silica particles. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 1-9.	1.5	10
132	Title is missing!. <i>Reaction Kinetics and Catalysis Letters</i> , 2000, 71, 273-279.	0.6	8
133	Physicochemical properties of Ti-grafted SBA-15. <i>Reaction Kinetics and Catalysis Letters</i> , 2004, 82, 27-32.	0.6	8
134	Iron oxide/MCM-41 mesoporous nanocomposites and their magnetorheology. <i>Colloid and Polymer Science</i> , 2013, 291, 1895-1901.	1.0	8
135	Nanoporous Fe-MCM-22 Additive Effect on Magnetorheological Response of Magnetic Carbonyl Iron Suspension. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 3410-3413.	1.2	8
136	Synthesis gas production process for natural gas conversion over $\text{Ni-La}_2\text{O}_3$ catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 28, 229-235.	2.9	8
137	SYNTHESIS AND ELECTORRHEOLOGY OF MESOPOROUS PARTICLS SUSPENSIONS. <i>International Journal of Modern Physics B</i> , 2002, 16, 2514-2520.	1.0	7
138	Preparation and humidity-sensing properties of nanostructured potassium tantalate thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2004, 15, 25-28.	1.1	7
139	Hydrothermal synthesis of zeolite L in a Na^+/K^+ mixed alkali system. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 1546-1552.	1.2	7
140	Facile synthesis of Ti-TUD-1 for catalytic oxidative desulfurization of model sulfur compounds. <i>Research on Chemical Intermediates</i> , 2011, 37, 1267-1273.	1.3	7
141	Sonochemical synthesis of rho-ZMOF catalyst for an enhanced CO_2 cycloaddition reaction. <i>Materials Letters</i> , 2020, 277, 128387.	1.3	7
142	Extensions in the synthesis and catalytic application of titanium silicalite-1. <i>Catalysis Surveys From Asia</i> , 2005, 9, 51-60.	1.0	6
143	Hydrothermal synthesis and characterization of Fe(III)-substituted mordenites. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 1286-1291.	1.2	6
144	Synthesis of hexagonal mesoporous aluminophosphate using Al dross. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 1389-1394.	1.2	6

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145	Synthesis of organic-inorganic hybrid MSU-1 for separation and catalytic applications. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 232-238.	2.2	6
146	Oxidation of tetralin to 1-tetralone over CrAPO-5. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 701-705.	1.2	5
147	Electrorheological response of microporous covalent triazine-based polymeric particles. <i>Colloid and Polymer Science</i> , 2018, 296, 907-915.	1.0	5
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