

# Jong-Wook Bae

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3812690/publications.pdf>

Version: 2024-02-01

214  
papers

6,566  
citations

57758

44  
h-index

106344

65  
g-index

214  
all docs

214  
docs citations

214  
times ranked

6031  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alumina-supported iron oxide nanoparticles as Fischer-Tropsch catalysts: Effect of particle size of iron oxide. <i>Journal of Molecular Catalysis A</i> , 2010, 323, 84-90.	4.8	188
2	Recent progress for direct synthesis of dimethyl ether from syngas on the heterogeneous bifunctional hybrid catalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 494-522.	20.2	181
3	Fischer-Tropsch Synthesis by Carbon Dioxide Hydrogenation on Fe-Based Catalysts. <i>Catalysis Surveys From Asia</i> , 2008, 12, 170-183.	2.6	177
4	Modeling of the Kinetics for Methanol Synthesis using Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> Catalyst: Influence of Carbon Dioxide during Hydrogenation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 10448-10455.	3.7	165
5	Facile Synthesis of Hierarchically Structured Bi <sub>2</sub> S <sub>3</sub> /Bi <sub>2</sub> WO <sub>6</sub> Photocatalysts for Highly Efficient Reduction of Cr(VI). <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2847-2855.	6.7	146
6	Synthesis Strategies, Catalytic Applications, and Performance Regulation of Single-Atom Catalysts. <i>Advanced Functional Materials</i> , 2021, 31, 2008318.	14.9	133
7	Synthesis of nano-sized porous $\gamma$ -alumina powder via a precipitation/digestion route. <i>Applied Catalysis A: General</i> , 2007, 321, 109-116.	4.3	130
8	Synthesis and characterization of a highly active alumina catalyst for methanol dehydration to dimethyl ether. <i>Applied Catalysis A: General</i> , 2008, 348, 113-120.	4.3	129
9	Recent Advances in Direct Synthesis of Value-Added Aromatic Chemicals from Syngas by Cascade Reactions over Bifunctional Catalysts. <i>Advanced Materials</i> , 2019, 31, e1803390.	21.0	106
10	Single-step synthesis of DME from syngas on Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> /zeolite bifunctional catalysts: The superiority of ferrierite over the other zeolites. <i>Fuel Processing Technology</i> , 2008, 89, 1281-1286.	7.2	103
11	Enhanced Stability of Spatially Confined Copper Nanoparticles in an Ordered Mesoporous Alumina for Dimethyl Ether Synthesis from Syngas. <i>ACS Catalysis</i> , 2016, 6, 5629-5640.	11.2	101
12	Microtopography-Guided Conductive Patterns of Liquid-Driven Graphene Nanoplatelet Networks for Stretchable and Skin-Conformal Sensor Array. <i>Advanced Materials</i> , 2017, 29, 1606453.	21.0	101
13	Synthesis of DME from syngas on the bifunctional Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> /Zr-modified ferrierite: Effect of Zr content. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 426-435.	20.2	95
14	Key properties of Ni-MgO-CeO <sub>2</sub> , Ni-MgO-ZrO <sub>2</sub> , and Ni-MgO-CeO <sub>2</sub> (1-x)/ZrO <sub>2</sub> (x) catalysts for the reforming of methane with carbon dioxide. <i>Green Chemistry</i> , 2018, 20, 1621-1633.	9.0	90
15	Dimethyl ether synthesis from syngas over the composite catalysts of Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> /Zr-modified zeolites. <i>Catalysis Communications</i> , 2008, 9, 2035-2039.	3.3	78
16	Novel aluminophosphate (AlPO) bound ZSM-5 extrudates with improved catalytic properties for methanol to propylene (MTP) reaction. <i>Applied Catalysis A: General</i> , 2010, 374, 18-25.	4.3	73
17	Coproduction of Methanol and Dimethyl Ether from Biomass-Derived Syngas on a Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> / $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Hybrid Catalyst. <i>Energy &amp; Fuels</i> , 2008, 22, 223-230.	5.1	72
18	Fischer-Tropsch Synthesis Using Zeolite-supported Iron Catalysts for the Production of Light Hydrocarbons. <i>Catalysis Letters</i> , 2008, 125, 264-270.	2.6	71

#	ARTICLE	IF	CITATIONS
19	ZSM-5 supported iron catalysts for Fischer-Tropsch production of light olefin. <i>Fuel Processing Technology</i> , 2010, 91, 399-403.	7.2	64
20	Roles of Structural Promoters for Direct CO <sub>2</sub> Hydrogenation to Dimethyl Ether over Ordered Mesoporous Bifunctional Cu/M <sup>+</sup> Al <sub>2</sub> O <sub>3</sub> (M = Ga or Zn). <i>ACS Catalysis</i> , 2019, 9, 679-690.	11.2	64
21	Highly Ordered Mesoporous Fe <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> Bimetal Oxides for an Enhanced CO Hydrogenation Activity to Hydrocarbons with Their Structural Stability. <i>ACS Catalysis</i> , 2017, 7, 5955-5964.	11.2	63
22	Ga-doped Cu/H-nanozeolite-Y catalyst for selective hydrogenation and hydrodeoxygenation of lignin-derived chemicals. <i>Green Chemistry</i> , 2018, 20, 3253-3270.	9.0	60
23	Catalytic performance on iron-based Fischer-Tropsch catalyst in fixed-bed and bubbling fluidized-bed reactor. <i>Applied Catalysis B: Environmental</i> , 2011, 103, 169-180.	20.2	59
24	Review of Acetic Acid Synthesis from Various Feedstocks Through Different Catalytic Processes. <i>Catalysis Surveys From Asia</i> , 2016, 20, 173-193.	2.6	58
25	Stabilized ordered-mesoporous Co <sub>3</sub> O <sub>4</sub> structures using Al pillar for the superior CO hydrogenation activity to hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 139-149.	20.2	57
26	Effect of support and cobalt precursors on the activity of Co/AlPO <sub>4</sub> catalysts in Fischer-Tropsch synthesis. <i>Journal of Molecular Catalysis A</i> , 2009, 311, 7-16.	4.8	56
27	ZSM-5 Supported Cobalt Catalyst for the Direct Production of Gasoline Range Hydrocarbons by Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , 2011, 141, 1464-1471.	2.6	56
28	Effect of copper surface area and acidic sites to intrinsic catalytic activity for dimethyl ether synthesis from biomass-derived syngas. <i>Applied Catalysis B: Environmental</i> , 2012, 126, 1-8.	20.2	56
29	Slurry-Phase Fischer-Tropsch Synthesis Using Co/Al <sub>2</sub> O <sub>3</sub> , Co/SiO <sub>2</sub> and Co/TiO <sub>2</sub> : Effect of Support on Catalyst Aggregation. <i>Catalysis Letters</i> , 2009, 130, 403-409.	2.6	55
30	Phosphorus induced hydrothermal stability and enhanced catalytic activity of ZSM-5 in methanol to DME conversion. <i>Fuel</i> , 2009, 88, 1915-1921.	6.4	55
31	Efficient Utilization of Greenhouse Gas in a Gas-to-Liquids Process Combined with Carbon Dioxide Reforming of Methane. <i>Environmental Science &amp; Technology</i> , 2010, 44, 1412-1417.	10.0	55
32	Combined Steam and Carbon Dioxide Reforming of Methane on Ni/MgAl <sub>2</sub> O <sub>4</sub> : Effect of CeO <sub>2</sub> Promoter to Catalytic Performance. <i>Catalysis Letters</i> , 2011, 141, 224-234.	2.6	55
33	Reduction and oxidation kinetics of different phases of iron oxides. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2613-2620.	7.1	55
34	Aqueous Phase Synthesis of 5-Hydroxymethylfurfural from Glucose over Large Pore Mesoporous Zirconium Phosphates: Effect of Calcination Temperature. <i>ACS Omega</i> , 2018, 3, 808-820.	3.5	54
35	Effect of alkali and alkaline earth metal on Co/CeO <sub>2</sub> catalyst for the water-gas shift reaction of waste derived synthesis gas. <i>Applied Catalysis A: General</i> , 2018, 551, 63-70.	4.3	51
36	Effect of precipitants during the preparation of Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> /Zr-ferrierite catalyst on the DME synthesis from syngas. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 566-572.	5.8	50

#	ARTICLE	IF	CITATIONS
37	Catalyst deactivation by carbon formation during CO hydrogenation to hydrocarbons on mesoporous Co <sub>3</sub> O <sub>4</sub> . <i>Microporous and Mesoporous Materials</i> , 2014, 188, 196-202.	4.4	50
38	Selective carbonylation of dimethyl ether to methyl acetate on Ferrierite. <i>Catalysis Communications</i> , 2016, 75, 28-31.	3.3	50
39	Hydrodechlorination of CCl <sub>4</sub> over Pt/Al <sub>2</sub> O <sub>3</sub> : effects of platinum particle size on product distribution. <i>Applied Catalysis A: General</i> , 2003, 240, 129-142.	4.3	49
40	Roles of Rutheniumâ€“Support Interactions of Size-Controlled Ruthenium Nanoparticles for the Product Distribution of Fischerâ€“Tropsch Synthesis. <i>ACS Catalysis</i> , 2014, 4, 1054-1060.	11.2	49
41	Metal oxide (MgO, CaO, and La <sub>2</sub> O <sub>3</sub> ) promoted Ni-Ce <sub>0.8</sub> Zr <sub>0.2</sub> O <sub>2</sub> catalysts for H <sub>2</sub> and CO production from two major greenhouse gases. <i>Renewable Energy</i> , 2015, 79, 91-95.	8.9	47
42	Enhanced Fischerâ€“Tropsch activity on Co/Pâ€“Al <sub>2</sub> O <sub>3</sub> catalyst: Effect of phosphorous content. <i>Catalysis Communications</i> , 2009, 10, 1358-1362.	3.3	46
43	Enhanced Catalytic Performance for Dimethyl Ether Synthesis from Syngas with the Addition of Zr or Ga on a Cuâ€“ZnOâ€“Al <sub>2</sub> O <sub>3</sub> /Î³-Al <sub>2</sub> O <sub>3</sub> Bifunctional Catalyst. <i>Energy &amp; Fuels</i> , 2010, 24, 804-810.	5.1	46
44	Synthesis and characterization of Pt-, Pd-, and Ru-promoted Niâ€“Ce <sub>0.6</sub> Zr <sub>0.4</sub> O <sub>2</sub> catalysts for efficient biodiesel production by deoxygenation of oleic acid. <i>Fuel</i> , 2019, 236, 928-933.	6.4	45
45	Effect of CO <sub>2</sub> in the feed stream on the deactivation of Co/Î³-Al <sub>2</sub> O <sub>3</sub> Fischerâ€“Tropsch catalyst. <i>Catalysis Communications</i> , 2008, 9, 2269-2273.	3.3	44
46	Crucial factors for catalyst aggregation and deactivation on Co/Al <sub>2</sub> O <sub>3</sub> in a slurry-phase Fischerâ€“Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2012, 413-414, 310-321.	4.3	44
47	Highly stable and selective layered Co-Al-O catalysts for low-temperature CO <sub>2</sub> methanation. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121303.	20.2	43
48	Ru promoted cobalt catalyst on Î³-Al <sub>2</sub> O <sub>3</sub> support: Influence of pre-synthesized nanoparticles on Fischerâ€“Tropsch reaction. <i>Journal of Molecular Catalysis A</i> , 2011, 344, 153-160.	4.8	42
49	New reaction pathways and kinetic parameter estimation for methanol dehydration over modified ZSM-5 catalysts. <i>Applied Catalysis A: General</i> , 2011, 395, 95-106.	4.3	42
50	Ni/M-Al <sub>2</sub> O <sub>3</sub> (M=Sm, Ce or Mg) for combined steam and CO <sub>2</sub> reforming of CH <sub>4</sub> from coke oven gas. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 21, 211-218.	6.8	42
51	Influence of Ru segregation on the activity of Ruâ€“Co/Î³-Al <sub>2</sub> O <sub>3</sub> during FT synthesis: A comparison with that of Ruâ€“Co/SiO <sub>2</sub> catalysts. <i>Catalysis Communications</i> , 2008, 9, 2282-2286.	3.3	39
52	Enhanced Catalytic Performance by Zirconium Phosphateâ€“Modified SiO <sub>2</sub> -Supported Ru/Î³-Co Catalyst for Fischerâ€“Tropsch Synthesis. <i>ChemCatChem</i> , 2011, 3, 1342-1347.	3.7	39
53	Non-stoichiometric SnS microspheres with highly enhanced photoreduction efficiency for Cr( <sup>vi</sup> ) ions. <i>RSC Advances</i> , 2017, 7, 30533-30541.	3.6	38
54	Influence of pH of the Impregnation Solution on the Catalytic Properties of Co/Î³-Alumina for Fischerâ€“Tropsch Synthesis. <i>Energy &amp; Fuels</i> , 2008, 22, 2885-2891.	5.1	37

#	ARTICLE	IF	CITATIONS
55	Development of a kinetic model of the Fischer–Tropsch synthesis reaction with a cobalt-based catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 104, 483-502.	1.7	36
56	Faradaic reaction of dual-redox additive in zwitterionic gel electrolyte boosts the performance of flexible supercapacitors. <i>Electrochimica Acta</i> , 2019, 319, 672-681.	5.2	36
57	Influence of bimodal pore size distribution of Ru/Co/ZrO <sub>2</sub> –Al <sub>2</sub> O <sub>3</sub> during Fischer–Tropsch synthesis in fixed-bed and slurry reactor. <i>Journal of Molecular Catalysis A</i> , 2009, 298, 81-87.	4.8	35
58	Gas-Phase Carbonylation of Dimethyl Ether on the Stable Seed-Derived Ferrierite. <i>ACS Catalysis</i> , 2020, 10, 5135-5146.	11.2	35
59	Effect of Cu content on the bifunctional Fischer–Tropsch Fe–Cu–K/ZSM5 catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 798-802.	5.8	34
60	Combined Steam and CO <sub>2</sub> Reforming of CH <sub>4</sub> on LaSrNiO <sub>x</sub> /Mixed Oxides Supported on Al <sub>2</sub> O <sub>3</sub> -Modified SiC Support. <i>Energy &amp; Fuels</i> , 2015, 29, 1055-1065.	5.1	34
61	Successive reduction-oxidation activity of FeO <sub>x</sub> /TiO <sub>2</sub> for dehydrogenation of ethane and subsequent CO <sub>2</sub> activation. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118887.	20.2	34
62	Direct conversion of synthesis gas to light olefins using dual bed reactor. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 847-853.	5.8	33
63	Reaction modeling on the phosphorous-treated Ru/Co/Zr/SiO <sub>2</sub> Fischer–Tropsch catalyst with the estimation of kinetic parameters and hydrocarbon distribution. <i>Fuel</i> , 2011, 90, 1383-1394.	6.4	33
64	Hydrodechlorination of CCl <sub>4</sub> over Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , 2001, 217, 79-89.	4.3	32
65	Effect of Preparation Method of Fe-based Fischer–Tropsch Catalyst on their Light Olefin Production. <i>Catalysis Letters</i> , 2009, 130, 630-636.	2.6	32
66	Fischer–Tropsch synthesis on cobalt/Al <sub>2</sub> O <sub>3</sub> -modified SiC catalysts: effect of cobalt–alumina interactions. <i>Catalysis Science and Technology</i> , 2014, 4, 343-351.	4.1	32
67	Fischer–Tropsch synthesis on Co/AlSBA-15: effects of hydrophilicity of supports on cobalt dispersion and product distributions. <i>Catalysis Science and Technology</i> , 2015, 5, 3525-3535.	4.1	32
68	Optimization of Cobalt Loading in Co–CeO <sub>2</sub> Catalyst for the High Temperature Water–Gas Shift Reaction. <i>Topics in Catalysis</i> , 2017, 60, 721-726.	2.8	32
69	Adjusted interactions of nickel nanoparticles with cobalt-modified MgAl <sub>2</sub> O <sub>4</sub> -SiC for an enhanced catalytic stability during steam reforming of propane. <i>Applied Catalysis A: General</i> , 2018, 549, 117-133.	4.3	32
70	Current Catalyst Technology of Selective Catalytic Reduction (SCR) for NO <sub>x</sub> Removal in South Korea. <i>Catalysts</i> , 2020, 10, 52.	3.5	32
71	Role of ZSM5 Distribution on Co/SiO <sub>2</sub> Fischer–Tropsch Catalyst for the Production of C <sub>5</sub> –C <sub>22</sub> Hydrocarbons. <i>Energy &amp; Fuels</i> , 2012, 26, 6061-6069.	5.1	31
72	Single-step synthesis of dimethyl ether from syngas on Al <sub>2</sub> O <sub>3</sub> -modified CuO–ZnO–Al <sub>2</sub> O <sub>3</sub> /ferrierite catalysts: Effects of Al <sub>2</sub> O <sub>3</sub> content. <i>Catalysis Today</i> , 2014, 228, 175-182.	4.4	31

#	ARTICLE	IF	CITATIONS
73	Influence of Ga addition on the methanol synthesis activity of Cu/ZnO catalyst in the presence and absence of alumina. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 665-669.	5.8	30
74	Effect of Copper Precursors to the Activity for Dimethyl Ether Synthesis from Syngas over Cu <sup>2+</sup> /ZnO/Al <sub>2</sub> O <sub>3</sub> Bifunctional Catalysts. <i>Energy &amp; Fuels</i> , 2011, 25, 2438-2443.	5.1	30
75	Effects of Carbon Formation on Catalytic Performance for CO <sub>2</sub> Reforming with Methane on Ni/Al <sub>2</sub> O <sub>3</sub> Catalyst: Comparison of Fixed-Bed with Fluidized-Bed Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 13288-13296.	3.7	30
76	Aqueous phase reforming of polyols for hydrogen production using supported Pt Fe bimetallic catalysts. <i>Renewable Energy</i> , 2016, 95, 396-403.	8.9	30
77	Enhanced Production of C <sub>2</sub> -C <sub>4</sub> Olefins Directly from Synthesis Gas. <i>Catalysis Letters</i> , 2008, 126, 149-154.	2.6	29
78	The role of CeO <sub>2</sub> -ZrO <sub>2</sub> distribution on the Ni/MgAl <sub>2</sub> O <sub>4</sub> catalyst during the combined steam and CO <sub>2</sub> reforming of methane. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 104, 377-388.	1.7	29
79	Water gas shift reaction on the Mn-modified ordered mesoporous Co <sub>3</sub> O <sub>4</sub> . <i>Microporous and Mesoporous Materials</i> , 2016, 221, 204-211.	4.4	29
80	Aqueous phase reforming of ethylene glycol over bimetallic platinum-cobalt on ceria-zirconia mixed oxide. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9892-9902.	7.1	29
81	Gas holdup and hydrodynamic flow regime transition in bubble columns. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 56, 450-462.	5.8	29
82	Low temperature steam reforming of methane using metal oxide promoted Ni-Ce <sub>0.8</sub> Zr <sub>0.2</sub> O <sub>2</sub> catalysts in a compact reformer. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 262-270.	7.1	29
83	Dimethyl ether carbonylation to methyl acetate over highly crystalline zeolite seed-derived ferrierite. <i>Catalysis Science and Technology</i> , 2018, 8, 3060-3072.	4.1	29
84	Hydrodechlorination of CCl <sub>4</sub> over Pt/Al <sub>2</sub> O <sub>3</sub> prepared from different Pt precursors. <i>Applied Catalysis A: General</i> , 2008, 334, 156-167.	4.3	28
85	Combined steam and CO <sub>2</sub> reforming of CH <sub>4</sub> using coke oven gas on nickel-based catalyst: Effects of organic acids to nickel dispersion and activity. <i>Chemical Engineering Journal</i> , 2015, 280, 771-781.	12.7	28
86	Fischer-Tropsch synthesis on the Al <sub>2</sub> O <sub>3</sub> -modified ordered mesoporous Co <sub>3</sub> O <sub>4</sub> with an enhanced catalytic activity and stability. <i>Catalysis Today</i> , 2016, 265, 27-35.	4.4	28
87	Effects of titanium impurity on alumina surface for the activity of Co/Ti-Al <sub>2</sub> O <sub>3</sub> Fischer-Tropsch catalyst. <i>Applied Catalysis A: General</i> , 2012, 419-420, 148-155.	4.3	26
88	Novel heterogeneous Rh-incorporated graphitic-carbon nitride for liquid-phase carbonylation of methanol to acetic acid. <i>Catalysis Communications</i> , 2017, 99, 141-145.	3.3	26
89	Textural Properties and Catalytic Applications of ZSM-5 Monolith Foam for Methanol Conversion. <i>Catalysis Letters</i> , 2009, 129, 408-415.	2.6	25
90	Performance of a slurry bubble column reactor for Fischer-Tropsch synthesis: Determination of optimum condition. <i>Fuel Processing Technology</i> , 2010, 91, 434-439.	7.2	25

#	ARTICLE	IF	CITATIONS
91	Deactivation behaviors of Pt or Ru promoted Co/P-Al <sub>2</sub> O <sub>3</sub> catalysts during slurry-phase Fischer-Tropsch synthesis. <i>Catalysis Communications</i> , 2011, 12, 539-543.	3.3	25
92	Kinetics modeling for the mixed reforming of methane over Ni-CeO <sub>2</sub> /MgAl <sub>2</sub> O <sub>4</sub> catalyst. <i>Journal of Natural Gas Chemistry</i> , 2011, 20, 9-17.	1.8	25
93	Effects of Cu-ZnO Content on Reaction Rate for Direct Synthesis of DME from Syngas with Bifunctional Cu-ZnO/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Catalysis Letters</i> , 2013, 143, 666-672.	2.6	25
94	Deactivation Behavior of Co/SiC Fischer-Tropsch Catalysts by Formation of Filamentous Carbon. <i>Catalysis Letters</i> , 2013, 143, 18-22.	2.6	25
95	Special issue of the 15th Korea-Japan Symposium on Catalysis (15th KJSC). <i>Research on Chemical Intermediates</i> , 2016, 42, 1-2.	2.7	25
96	Unprecedented activity and stability on zirconium phosphates grafted mesoporous silicas for renewable aromatics production from furans. <i>Journal of Catalysis</i> , 2020, 385, 10-20.	6.2	25
97	Noble-Metal-Based Catalytic Oxidation Technology Trends for Volatile Organic Compound (VOC) Removal. <i>Catalysts</i> , 2022, 12, 63.	3.5	25
98	Effect of Al <sub>2</sub> O <sub>3</sub> content on the adsorptive properties of Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> for removal of odorant sulfur compounds. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8733-8740.	7.1	24
99	Optimization of a highly active nano-sized Pt/CeO <sub>2</sub> catalyst via Ce(OH)CO <sub>3</sub> for the water-gas shift reaction. <i>Renewable Energy</i> , 2015, 79, 78-84.	8.9	24
100	Ordered mesoporous CoMO <sub>x</sub> (M = Al or Zr) mixed oxides for Fischer-Tropsch synthesis. <i>Chemical Communications</i> , 2016, 52, 4820-4823.	4.1	24
101	Rh-Mn/tungsten carbides for direct synthesis of mixed alcohols from syngas: Effects of tungsten carbide phases. <i>Microporous and Mesoporous Materials</i> , 2018, 255, 44-52.	4.4	24
102	Effect of calcination temperature on the association between free NiO species and catalytic activity of Ni-Ce <sub>0.6</sub> Zr <sub>0.4</sub> O <sub>2</sub> deoxygenation catalysts for biodiesel production. <i>Renewable Energy</i> , 2019, 131, 144-151.	8.9	24
103	Increase in stability of BaCo/CeO <sub>2</sub> catalyst by optimizing the loading amount of Ba promoter for high-temperature water-gas shift reaction using waste-derived synthesis gas. <i>Renewable Energy</i> , 2020, 145, 2715-2722.	8.9	24
104	Effective Removal of Odorants in Gaseous Fuel for the Hydrogen Station Using Hydrodesulfurization and Adsorption. <i>Energy &amp; Fuels</i> , 2007, 21, 3537-3540.	5.1	23
105	Deactivation by Filamentous Carbon Formation on Co/Aluminum Phosphate during Fischer-Tropsch Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 3228-3233.	3.7	22
106	Morphological variation of highly porous Ni-Sn foams fabricated by electro-deposition in hydrogen-bubble templates and their performance as pseudo-capacitors. <i>Applied Surface Science</i> , 2014, 322, 15-20.	6.1	22
107	Capacitance enhancement in supercapacitors by incorporating ultra-long hydrated vanadium-oxide nanobelts into graphene. <i>Journal of Alloys and Compounds</i> , 2016, 688, 814-821.	5.5	22
108	Direct activation of CH <sub>4</sub> to oxygenates and unsaturated hydrocarbons using N <sub>2</sub> O on Fe-modified zeolites. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 130-140.	4.8	22

#	ARTICLE	IF	CITATIONS
109	Thermally Stabilized Cobalt-Based Fischer-Tropsch Catalysts by Phosphorous Modification of Al <sub>2</sub> O <sub>3</sub> : Effect of Calcination Temperatures on Catalyst Stability. ChemCatChem, 2015, 7, 1460-1469.	3.7	21
110	Highly stable seed-derived ferrierite for carbonylation of dimethyl ether to methyl acetate: Effects of seed content to catalytic stability. Catalysis Today, 2020, 339, 79-85.	4.4	21
111	Sulfur-Tolerant Pt/CeO <sub>2</sub> Catalyst with Enhanced Oxygen Storage Capacity by Controlling the Pt Content for the Waste-to-Hydrogen Processes. ACS Sustainable Chemistry and Engineering, 2021, 9, 15287-15293.	6.7	21
112	Modeling a slurry CSTR with Co/Pt-Al <sub>2</sub> O <sub>3</sub> catalyst for Fischer-Tropsch synthesis. Fuel Processing Technology, 2011, 92, 2264-2271.	7.2	20
113	Reduction-oxidation kinetics of three different iron oxide phases for CO <sub>2</sub> activation to CO. Fuel, 2017, 202, 547-555.	6.4	20
114	The effect of titration time on the catalytic performance of Cu/CeO <sub>2</sub> catalysts for water-gas shift reaction. Catalysis Today, 2018, 309, 83-88.	4.4	20
115	Synergistic effects of Nb <sub>2</sub> O <sub>5</sub> promoter on Ru/Al <sub>2</sub> O <sub>3</sub> for an aqueous-phase hydrodeoxygenation of glycerol to hydrocarbons. Applied Catalysis A: General, 2018, 551, 49-62.	4.3	20
116	Effect of Active Component Contents to Catalytic Performance on Fe-Cu-K/ZSM5 Fischer-Tropsch Catalyst. Catalysis Letters, 2010, 134, 233-241.	2.6	19
117	Effects of ordered mesoporous bimodal structures of Fe/KIT-6 for CO hydrogenation activity to hydrocarbons. Chemical Engineering Journal, 2018, 354, 197-207.	12.7	19
118	Enhanced thermal stability of Ni nanoparticles in ordered mesoporous supports for dry reforming of methane with CO <sub>2</sub> . Catalysis Today, 2022, 388-389, 224-230.	4.4	19
119	Effects of Pt precursors on Pt/CeO <sub>2</sub> to water-gas shift (WGS) reaction activity with Langmuir-Hinshelwood model-based kinetics. International Journal of Hydrogen Energy, 2020, 45, 26953-26966.	7.1	19
120	Highly active and stable catalytic performance on phosphorous-promoted Ru/Co/Zr/SiO <sub>2</sub> Fischer-Tropsch catalyst. Catalysis Communications, 2010, 11, 834-838.	3.3	18
121	Facile synthesis of flower-like Ni-Co(OH) <sub>2</sub> nanostructures for electrochemical water splitting and pseudocapacitor applications. Journal of Industrial and Engineering Chemistry, 2016, 37, 175-179.	5.8	18
122	Effect of the ordered meso-macroporous structure of Co/SiO <sub>2</sub> on the enhanced activity of hydrogenation of CO to hydrocarbons. Catalysis Science and Technology, 2016, 6, 4221-4231.	4.1	18
123	Effects of surface modification with zirconium phosphate on Ru/Co/SiO <sub>2</sub> Fischer-Tropsch catalysts analyzed by XPS and TEM analyses. Applied Catalysis A: General, 2013, 450, 88-95.	4.3	17
124	Roles of Al <sub>2</sub> O <sub>3</sub> promoter for an enhanced structural stability of ordered-mesoporous Co <sub>3</sub> O <sub>4</sub> catalyst during CO hydrogenation to hydrocarbons. Fuel, 2018, 225, 460-471.	6.4	17
125	Effects of metal-organic framework-derived iron carbide phases for CO hydrogenation activity to hydrocarbons. Fuel, 2020, 281, 118779.	6.4	17
126	Effect of Calcination Temperature on the Activity and Cobalt Crystallite Size of Fischer-Tropsch Co-Ru-Zr/SiO <sub>2</sub> Catalyst. Catalysis Letters, 2009, 129, 233-239.	2.6	16



#	ARTICLE	IF	CITATIONS
127	Cyclic production of syngas and hydrogen through methane-reforming and water-splitting by using ceria-zirconia solid solutions in a solar volumetric receiver reactor. <i>Solar Energy</i> , 2014, 109, 70-81.	6.1	16
128	Spatially confined cobalt nanoparticles on zirconium phosphate-modified KIT-6 for an enhanced stability of CO hydrogenation to hydrocarbons. <i>Fuel</i> , 2019, 239, 547-558.	6.4	16
129	Liquid-phase hydrodechlorination of CCl <sub>4</sub> in a medium of ethanol with co-production of acetal and diethyl carbonate. <i>Journal of Molecular Catalysis A</i> , 2003, 206, 225-238.	4.8	15
130	Esterification of acetic acid with methanol to methyl acetate on Pd-modified zeolites: effect of Brønsted acid site strength on activity. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014, 112, 499-510.	1.7	15
131	Aqueous phase reforming and hydrodeoxygenation of ethylene glycol on Pt/SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> : effects of surface acidity on product distribution. <i>RSC Advances</i> , 2016, 6, 68433-68444.	3.6	15
132	Synergy effects of basic graphitic-C <sub>3</sub> N <sub>4</sub> over acidic Al <sub>2</sub> O <sub>3</sub> for a liquid-phase decarboxylation of naphthenic acids. <i>Fuel Processing Technology</i> , 2019, 184, 36-44.	7.2	15
133	Optimization of methanol synthesis reaction on Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> catalyst using genetic algorithm: Maximization of the synergetic effect by the optimal CO <sub>2</sub> fraction. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1760-1767.	2.7	14
134	The investigation of non-noble metal doped mesoporous cobalt oxide catalysts for the water-gas shift reaction. <i>RSC Advances</i> , 2016, 6, 52754-52760.	3.6	14
135	Roles of phosphorous-modified Al <sub>2</sub> O <sub>3</sub> for an enhanced stability of Co/Al <sub>2</sub> O <sub>3</sub> for CO hydrogenation to hydrocarbons. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 177-189.	4.8	14
136	Effects of CO <sub>2</sub> on the deactivation behaviors of Co/Al <sub>2</sub> O <sub>3</sub> and Co/SiO <sub>2</sub> in CO hydrogenation to hydrocarbons. <i>Catalysis Science and Technology</i> , 2017, 7, 4079-4091.	4.1	14
137	Selective ethanol synthesis via multi-step reactions from syngas: Ferrierite-based catalysts and fluidized-bed reactor application. <i>Catalysis Today</i> , 2018, 303, 93-99.	4.4	14
138	Effects of Tin on Product Distribution and Catalyst Stability in Hydrodechlorination of CCl <sub>4</sub> over Pt-Sn/Al <sub>2</sub> O <sub>3</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 1721-1730.	3.7	13
139	Controlled Nanocrystal Deposition for Higher Degree of Reduction in Co/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Catalysis Letters</i> , 2009, 130, 198-203.	2.6	13
140	Correlation of the amount of carbonaceous species with catalytic performance on iron-based Fischer-Tropsch catalysts. <i>Fuel Processing Technology</i> , 2013, 109, 141-149.	7.2	13
141	A Fluorescent Tile DNA Diagnocode System for In Situ Rapid and Selective Diagnosis of Cytosolic RNA Cancer Markers. <i>Scientific Reports</i> , 2015, 5, 18497.	3.3	13
142	The role of the acidity of alumina prepared by aluminum-carbon black composite for CO hydrogenation to dimethyl ether on hybrid Cu-ZnO/Al <sub>2</sub> O <sub>3</sub> /alumina. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 116, 173-189.	1.7	13
143	Fischer-Tropsch Synthesis on Ordered Mesoporous Cobalt-Based Catalysts with Compact Multichannel Fixed-Bed Reactor Application: A Review. <i>Catalysis Surveys From Asia</i> , 2016, 20, 210-230.	2.6	13
144	Ordered Mesoporous Co <sub>3</sub> O <sub>4</sub> -Al <sub>2</sub> O <sub>3</sub> Binary Metal Oxides for CO Hydrogenation to Hydrocarbons: Synergy Effects of Phosphorus Modifier for an Enhanced Catalytic Activity and Stability. <i>ChemCatChem</i> , 2019, 11, 1707-1721.	3.7	13

#	ARTICLE	IF	CITATIONS
145	Crucial factors to maximize DME productivity on hydrophobic bifunctional Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> /ferrierite by direct CO <sub>2</sub> hydrogenation. <i>Catalysis Today</i> , 2021, 369, 112-122.	4.4	13
146	Effects of spatially confined nickel nanoparticles in surface-pretreated hydrophobic SBA-15 for dry reforming of CH <sub>4</sub> with CO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 51, 101629.	6.8	13
147	Morphology Effects of Ferrierite on Bifunctional Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> /Ferrierite for Direct Syngas Conversion to Dimethyl Ether. <i>ACS Catalysis</i> , 2021, 11, 14210-14223.	11.2	13
148	Catalytic Performance and Kinetic Models on Zirconium Phosphate Modified Ru/Co/SiO <sub>2</sub> Fischer-Tropsch Catalyst. <i>Catalysis Surveys From Asia</i> , 2012, 16, 121-137.	2.6	12
149	Rapid synthesis of magnetite catalysts incorporated with M (Cu, Ni, Zn, and Co) promoters for high temperature water gas shift reaction. <i>New Journal of Chemistry</i> , 2014, 38, 4872-4878.	2.8	12
150	Kinetic models of Fischer-Tropsch synthesis reaction over granule-type Pt-promoted Co/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1263-1273.	2.7	12
151	Ethanol conversion into 1,3-butadiene over Zn Zr mixed oxide catalysts supported on ordered mesoporous materials. <i>Fuel Processing Technology</i> , 2020, 200, 106317.	7.2	12
152	Carbonylation of dimethyl ether on ferrierite zeolite: Effects of crystallinity to coke distribution and deactivation. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110669.	4.4	12
153	Oxidative dehydrogenation of ethane and subsequent CO <sub>2</sub> activation on Ce-incorporated FeTiO <sub>x</sub> metal oxides. <i>Chemical Engineering Journal</i> , 2022, 433, 134621.	12.7	12
154	Aqueous phase reforming of ethylene glycol on Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> : effects of cerium to zirconium molar ratio. <i>RSC Advances</i> , 2015, 5, 54806-54815.	3.6	11
155	Methyl Acetate Synthesis by Esterification on the Modified Ferrierite: Correlation of Acid Sites Measured by Pyridine IR and NH <sub>3</sub> -TPD for Steady-State Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4626-4630.	0.9	11
156	Hydrodynamic characteristics at the layer inversion point in three-phase fluidized beds with binary solids. <i>Chemical Engineering Science</i> , 2017, 157, 99-106.	3.8	11
157	Synergy Effects of Cobalt Oxides on Ni/Co-Embedded Al <sub>2</sub> O <sub>3</sub> for Hydrogen-Rich Syngas Production by Steam Reforming of Propane. <i>Catalysts</i> , 2020, 10, 461.	3.5	11
158	Phosphorus-Modified Mesoporous Inorganic Materials for Production of Hydrocarbon Fuels and Value-Added Chemicals. <i>ChemCatChem</i> , 2020, 12, 4224-4241.	3.7	11
159	Roles of highly ordered mesoporous structures of Fe-Ni bimetal oxides for an enhanced high-temperature water-gas shift reaction activity. <i>Catalysis Science and Technology</i> , 2021, 11, 3251-3260.	4.1	11
160	Unprecedented contributions of In <sub>2</sub> O <sub>3</sub> promoter on ordered mesoporous Cu/Al <sub>2</sub> O <sub>3</sub> for CO <sub>2</sub> hydrogenation to oxygenates. <i>Chemical Engineering Journal</i> , 2022, 439, 135649.	12.7	11
161	Solid mass flux in a chemical-looping process for hydrogen production in a multistage circulating moving bed reactor. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6052-6058.	7.1	10
162	Effects of phosphorus and saccharide on size, shape, and reducibility of Fischer-Tropsch catalysts for slurry phase and fixed-bed reactions. <i>Applied Catalysis A: General</i> , 2013, 453, 358-369.	4.3	10

#	ARTICLE	IF	CITATIONS
163	Fischer-Tropsch synthesis on the cobalt impregnated catalyst using carbon-coated Ni/SiO <sub>2</sub> . Korean Journal of Chemical Engineering, 2016, 33, 1565-1570.	2.7	10
164	Fischer-Tropsch synthesis on potassium-modified Fe <sub>3</sub> O <sub>4</sub> nanoparticles. Research on Chemical Intermediates, 2016, 42, 335-350.	2.7	10
165	Synergy effects of Al <sub>2</sub> O <sub>3</sub> promoter on a highly ordered mesoporous heterogeneous Rh-g-C <sub>3</sub> N <sub>4</sub> for a liquid-phase carbonylation of methanol. Applied Catalysis A: General, 2019, 585, 117209.	4.3	10
166	Effect of Phosphorus Modification on Cu-Zn-Al <sub>2</sub> O <sub>3</sub> for the Removal of H <sub>2</sub> S. Energy & Fuels, 2008, 22, 2580-2584.	5.1	9
167	Catalytic performance on Cu-Cr <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> mixed oxides for water gas shift reaction: Effects of Ga/Cr molar ratio. Catalysis Communications, 2012, 19, 66-69.	3.3	9
168	Preferential CO oxidation over supported Pt catalysts. Korean Journal of Chemical Engineering, 2016, 33, 1781-1787.	2.7	9
169	Direct Conversion of CO <sub>2</sub> into Dimethyl Ether over Al <sub>2</sub> O <sub>3</sub> /Cu/ZnO Catalysts Prepared by Sequential Precipitation. Catalysts, 2019, 9, 524.	3.5	9
170	Kinetic modeling for direct synthesis of dimethyl ether from syngas over a hybrid Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> /ferriite catalyst. Catalysis Today, 2022, 388-389, 323-328.	4.4	9
171	Single-Atom Catalysts: Synthesis Strategies, Catalytic Applications, and Performance Regulation of Single-Atom Catalysts (Adv. Funct. Mater. 12/2021). Advanced Functional Materials, 2021, 31, 2170081.	14.9	9
172	CO <sub>2</sub> Reforming of CH <sub>4</sub> Using Coke Oven Gas over Ni/MgO-Al <sub>2</sub> O <sub>3</sub> Catalysts: Effect of the MgO:Al <sub>2</sub> O <sub>3</sub> Ratio. Catalysts, 2021, 11, 1468.	3.5	9
173	Catalytically stable monodispersed multi-core Ni-Co nanoparticles encapsulated with SiO <sub>2</sub> shells for dry reforming of CH <sub>4</sub> with CO <sub>2</sub> . Journal of CO <sub>2</sub> Utilization, 2022, 60, 101984.	6.8	9
174	Comparison of normal and reverse precipitation methods in the preparation of Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> catalysts for hydrogenolysis of butyl butyrate. Catalysis Communications, 2014, 54, 1-5.	3.3	8
175	Dehydrochlorination of polyvinylchloride using Al-modified graphitic-C <sub>3</sub> N <sub>4</sub> . RSC Advances, 2016, 6, 20728-20733.	3.6	8
176	Effect of Mn promoter on Rh/tungsten carbide on product distributions of alcohols and hydrocarbons by CO hydrogenation. RSC Advances, 2016, 6, 101535-101543.	3.6	8
177	Horizontal immersed heater-to-bed heat transfer with layer inversion in gas-liquid-solid fluidized beds of binary solids. Chemical Engineering Science, 2017, 170, 501-507.	3.8	8
178	Effects of self-reduction of Co nanoparticles on mesoporous graphitic carbon-nitride to CO hydrogenation activity to hydrocarbons. Fuel, 2021, 287, 119437.	6.4	8
179	Facile Structure Tuning of a Methanol-Synthesis Catalyst towards the Direct Synthesis of Dimethyl Ether from Syngas. ChemCatChem, 2017, 9, 4484-4489.	3.7	8
180	Thermo-catalytic decomposition of propane over carbon black in a fluidized bed for hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 14800-14807.	7.1	7

#	ARTICLE	IF	CITATIONS
181	Tungsten oxides supported on nano-size zirconia for cyclic production of syngas and hydrogen by redox operations. Korean Journal of Chemical Engineering, 2014, 31, 961-971.	2.7	7
182	Removal of Benzoic Acid in Heavy Oils by Esterification Using Modified Ferrierite: Roles of Brønsted and Lewis Acid Sites. Energy & Fuels, 2016, 30, 5391-5397.	5.1	7
183	Direct synthesis of liquid fuels and aromatics from syngas over mesoporous FeZrOx catalyst mixed with Mo/ferrierite. Fuel, 2020, 264, 116851.	6.4	6
184	Development of dimethyl ether synthesis processes using by-product gas from a steel-making plant: Single-vs. two-step processes. Journal of Cleaner Production, 2021, 326, 129367.	9.3	6
185	A Novel Method of CCl <sub>4</sub> Disposal by Disproportionation with CH <sub>4</sub> over Pt on Various Supports. Chemistry Letters, 2001, 30, 264-265.	1.3	5
186	Disposal of CCl <sub>4</sub> by Disproportionation Reaction with CH <sub>4</sub> . Industrial & Engineering Chemistry Research, 2007, 46, 7057-7065.	3.7	5
187	Effect of pressure fluctuations on the heat transfer characteristics in a pressurized slurry bubble column. Korean Journal of Chemical Engineering, 2008, 25, 897-904.	2.7	5
188	Effects of Reaction Variables on Fischer-Tropsch Synthesis with Co-Precipitated K/FeCuAlO <sub>x</sub> Catalysts. Catalysis Letters, 2011, 141, 799-807.	2.6	5
189	Differences in DNA Probe-Mediated Aggregation Behavior of Gold Nanomaterials Based on Their Geometric Appearance. Langmuir, 2018, 34, 14869-14874.	3.5	5
190	Adjusting Hydrocarbon Distribution on the Stabilized Al <sub>3</sub> O <sub>4</sub> -Fe <sub>2</sub> O <sub>3</sub> Bimetal Oxides for CO Hydrogenation. ChemCatChem, 2020, 12, 2304-2314.	3.7	5
191	Contributions of post-synthesized mesopore structures of ferrierite zeolite for gas-phase dimethyl ether carbonylation activity. Korean Journal of Chemical Engineering, 2021, 38, 1231-1239.	2.7	5
192	Effect of distributor type on microbubble dispersion in a pressurized bubble column. Chemical Engineering Research and Design, 2021, 174, 188-198.	5.6	5
193	Carbonylation of Dimethyl Ether to Methyl Acetate on Zr-Modified Ferrierite. Advanced Porous Materials, 2016, 4, 200-205.	0.3	5
194	A superhydrophobic layer formed by fluoro-derivative-treated gold sheets on grown-up zinc oxide nanoparticles for a spherical DNA hydrogel. Colloids and Surfaces B: Biointerfaces, 2013, 111, 342-345.	5.0	4
195	Redox of titanium oxides by methane and water for application to cyclic syngas and hydrogen production systems. International Journal of Hydrogen Energy, 2015, 40, 2518-2528.	7.1	4
196	Nickel oxide-silica core-shell catalyst for acetylene hydroxycarbonylation. Catalysis Communications, 2019, 123, 86-90.	3.3	4
197	Thermo-catalytic decomposition of waste lubricating oil over carbon catalyst. Korean Journal of Chemical Engineering, 2016, 33, 2891-2897.	2.7	3
198	Catalytic Decomposition of Pyrolysis Fuel Oil over in Situ Carbon-Coated Ferrierite Zeolite for Selective Hydrogen Production. Energy & Fuels, 2018, 32, 3792-3799.	5.1	3

#	ARTICLE	IF	CITATIONS
199	Dehydrogenation of ethane and subsequent activation of CO <sub>2</sub> on hierarchically-structured bimetallic FeM@ZSM-5 (M=Ce, Ga, and Sn). Korean Journal of Chemical Engineering, 2021, 38, 1129-1138.	2.7	3
200	Contributions of acidic-basic sites on hybridized FER@g-C <sub>3</sub> N <sub>4</sub> for liquid-phase decarboxylation of naphthenic acids. Fuel, 2021, 296, 120679.	6.4	3
201	Effect of Heat Treatment on the Electrochemical Properties of Mn Oxide-Based Powder Prepared Using a Wet Chemical Process. Science of Advanced Materials, 2016, 8, 89-95.	0.7	3
202	Promoting Effect of Admixed Ce <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> with Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> Methanol Synthesis Catalyst on Catalytic Performance: Influence of Ce/Zr Ratio. Bulletin of the Korean Chemical Society, 2010, 31, 470-472.	1.9	3
203	Dimethyl ether conversion to hydrocarbons on the closely interconnected FER@ZSM-5 nanostructures. Microporous and Mesoporous Materials, 2022, 340, 112034.	4.4	3
204	Nanosized seed-derived ferrierite zeolite for a gas-phase carbonylation of dimethyl ether to methyl acetate. Catalysis Today, 2022, , .	4.4	3
205	Liquid-phase Hydrodechlorination of CCl <sub>4</sub> with Co-production of Diethylcarbonate and Acetal. Chemistry Letters, 2002, 31, 1020-1021.	1.3	2
206	Methane reforming and water splitting by zirconia-supported cerium-tungsten composite oxides for cyclic production of syngas and hydrogen. International Journal of Hydrogen Energy, 2016, 41, 6220-6229.	7.1	2
207	Stable Syngas Production by Concurrent Methane Decomposition and Carbon Dioxide Gasification with Activated Carbon. Science of Advanced Materials, 2016, 8, 205-211.	0.7	2
208	Mechanistic kinetic modeling for catalytic conversion of DME to gasoline-range hydrocarbons over nanostructured ZSM-5. Catalysis Science and Technology, 2022, 12, 4798-4810.	4.1	2
209	Entrainment of Geldart C particles in fluidized beds with binary particles. Korean Journal of Chemical Engineering, 2014, 31, 2094-2100.	2.7	1
210	Modified Kinetic Model for Dichloropropanol Synthesis from Glycerin and Anhydrous HCl at High Pressure. Journal of Chemical Engineering of Japan, 2011, 44, 336-344.	0.6	1
211	Phosphorus Modified Co/Al <sub>2</sub> O <sub>3</sub> Fischer-Tropsch Catalyst for a Slurry Phase CSTR with Enhanced Hydrothermal and Mechanical Stability. Korean Chemical Engineering Research, 2012, 50, 229-237.	0.2	1
212	Fast Pyrolysis of Biomasses in a Bubbling Fluidized Bed Reactor. Journal of Chemical Engineering of Japan, 2012, 45, 862-867.	0.6	1
213	Modified Nano-Perovskite Catalysts for the Steam and CO <sub>2</sub> Reforming of Methane. Journal of Nanoscience and Nanotechnology, 2015, 15, 5889-5892.	0.9	0
214	Graphene: Microtopographyâ€Guided Conductive Patterns of Liquidâ€Driven Graphene Nanoplatelet Networks for Stretchable and Skinâ€Conformal Sensor Array (Adv. Mater. 21/2017). Advanced Materials, 2017, 29, .	21.0	0