

Jong-Wook Bae

List of Publications by Year in descending order

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214
papers

6,566
citations

57758

44
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106344

65
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all docs

214
docs citations

214
times ranked

6031
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermal stability of Ni nanoparticles in ordered mesoporous supports for dry reforming of methane with CO ₂ . <i>Catalysis Today</i> , 2022, 388-389, 224-230.	4.4	19
2	Kinetic modeling for direct synthesis of dimethyl ether from syngas over a hybrid Cu/ZnO/Al ₂ O ₃ /ferrierite catalyst. <i>Catalysis Today</i> , 2022, 388-389, 323-328.	4.4	9
3	Noble-Metal-Based Catalytic Oxidation Technology Trends for Volatile Organic Compound (VOC) Removal. <i>Catalysts</i> , 2022, 12, 63.	3.5	25
4	Oxidative dehydrogenation of ethane and subsequent CO ₂ activation on Ce-incorporated FeTiO _x metal oxides. <i>Chemical Engineering Journal</i> , 2022, 433, 134621.	12.7	12
5	Catalytically stable monodispersed multi-core Ni-Co nanoparticles encapsulated with SiO ₂ shells for dry reforming of CH ₄ with CO ₂ . <i>Journal of CO₂ Utilization</i> , 2022, 60, 101984.	6.8	9
6	Unprecedented contributions of In ₂ O ₃ promoter on ordered mesoporous Cu/Al ₂ O ₃ for CO ₂ hydrogenation to oxygenates. <i>Chemical Engineering Journal</i> , 2022, 439, 135649.	12.7	11
7	Highly stable and selective layered Co-Al-O catalysts for low-temperature CO ₂ methanation. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121303.	20.2	43
8	Dimethyl ether conversion to hydrocarbons on the closely interconnected FER@ZSM-5 nanostructures. <i>Microporous and Mesoporous Materials</i> , 2022, 340, 112034.	4.4	3
9	Mechanistic kinetic modeling for catalytic conversion of DME to gasoline-range hydrocarbons over nanostructured ZSM-5. <i>Catalysis Science and Technology</i> , 2022, 12, 4798-4810.	4.1	2
10	Nanosized seed-derived ferrierite zeolite for a gas-phase carbonylation of dimethyl ether to methyl acetate. <i>Catalysis Today</i> , 2022, , .	4.4	3
11	Crucial factors to maximize DME productivity on hydrophobic bifunctional Cu-ZnO-Al ₂ O ₃ /ferrierite by direct CO ₂ hydrogenation. <i>Catalysis Today</i> , 2021, 369, 112-122.	4.4	13
12	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
13	Effects of self-reduction of Co nanoparticles on mesoporous graphitic carbon-nitride to CO hydrogenation activity to hydrocarbons. <i>Fuel</i> , 2021, 287, 119437.	6.4	8
14	Synthesis Strategies, Catalytic Applications, and Performance Regulation of Single-Atom Catalysts. <i>Advanced Functional Materials</i> , 2021, 31, 2008318.	14.9	133
15	Single-Atom Catalysts: Synthesis Strategies, Catalytic Applications, and Performance Regulation of Single-Atom Catalysts (<i>Adv. Funct. Mater.</i> 12/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170081.	14.9	9
16	Dehydrogenation of ethane and subsequent activation of CO ₂ on hierarchically-structured bimetallic FeM@ZSM-5 (M=Ce, Ga, and Sn). <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1129-1138.	2.7	3
17	Contributions of post-synthesized mesopore structures of ferrierite zeolite for gas-phase dimethyl ether carbonylation activity. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1231-1239.	2.7	5
18	Contributions of acidic-basic sites on hybridized FER@g-C ₃ N ₄ for liquid-phase decarboxylation of naphthenic acids. <i>Fuel</i> , 2021, 296, 120679.	6.4	3

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19	Effects of spatially confined nickel nanoparticles in surface-pretreated hydrophobic SBA-15 for dry reforming of CH ₄ with CO ₂ . <i>Journal of CO₂ Utilization</i> , 2021, 51, 101629.	6.8	13
20	Effect of distributor type on microbubble dispersion in a pressurized bubble column. <i>Chemical Engineering Research and Design</i> , 2021, 174, 188-198.	5.6	5
21	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
22	Development of dimethyl ether synthesis processes using by-product gas from a steel-making plant: Single-vs. two-step processes. <i>Journal of Cleaner Production</i> , 2021, 326, 129367.	9.3	6
23	Sulfur-Tolerant Pt/CeO ₂ Catalyst with Enhanced Oxygen Storage Capacity by Controlling the Pt Content for the Waste-to-Hydrogen Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15287-15293.	6.7	21
24	Morphology Effects of Ferrierite on Bifunctional Cu-ZnO-Al ₂ O ₃ /Ferrierite for Direct Syngas Conversion to Dimethyl Ether. <i>ACS Catalysis</i> , 2021, 11, 14210-14223.	11.2	13
25	CO ₂ Reforming of CH ₄ Using Coke Oven Gas over Ni/MgO-Al ₂ O ₃ Catalysts: Effect of the MgO:Al ₂ O ₃ Ratio. <i>Catalysts</i> , 2021, 11, 1468.	3.5	9
26	Highly stable seed-derived ferrierite for carbonylation of dimethyl ether to methyl acetate: Effects of seed content to catalytic stability. <i>Catalysis Today</i> , 2020, 339, 79-85.	4.4	21
27	Increase in stability of BaCo/CeO ₂ 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
28	Current Catalyst Technology of Selective Catalytic Reduction (SCR) for NO _x Removal in South Korea. <i>Catalysts</i> , 2020, 10, 52.	3.5	32
29	Direct synthesis of liquid fuels and aromatics from syngas over mesoporous FeZrO _x catalyst mixed with Mo/ferrierite. <i>Fuel</i> , 2020, 264, 116851.	6.4	6
30	Effects of metal-organic framework-derived iron carbide phases for CO hydrogenation activity to hydrocarbons. <i>Fuel</i> , 2020, 281, 118779.	6.4	17
31	Effects of Pt precursors on Pt/CeO ₂ to water-gas shift (WGS) reaction activity with Langmuir-Hinshelwood model-based kinetics. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26953-26966.	7.1	19
32	Synergy Effects of Cobalt Oxides on Ni/Co-Embedded Al ₂ O ₃ for Hydrogen-Rich Syngas Production by Steam Reforming of Propane. <i>Catalysts</i> , 2020, 10, 461.	3.5	11
33	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
34	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
35	Adjusting Hydrocarbon Distribution on the Stabilized Al-Modified Mesoporous Co ₃ O ₄ -Fe ₂ O ₃ Bimetal Oxides for CO Hydrogenation. <i>ChemCatChem</i> , 2020, 12, 2304-2314.	3.7	5
36	Phosphorus-Modified Mesoporous Inorganic Materials for Production of Hydrocarbon Fuels and Value-Added Chemicals. <i>ChemCatChem</i> , 2020, 12, 4224-4241.	3.7	11

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37	Successive reduction-oxidation activity of FeO _x /TiO ₂ for dehydrogenation of ethane and subsequent CO ₂ activation. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118887.	20.2	34
38	Gas-Phase Carbonylation of Dimethyl Ether on the Stable Seed-Derived Ferrierite. <i>ACS Catalysis</i> , 2020, 10, 5135-5146.	11.2	35
39	Effect of calcination temperature on the association between free NiO species and catalytic activity of Ni ²⁺ Ce _{0.6} Zr _{0.4} O ₂ deoxygenation catalysts for biodiesel production. <i>Renewable Energy</i> , 2019, 131, 144-151.	8.9	24
40	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
41	Direct Conversion of CO ₂ into Dimethyl Ether over Al ₂ O ₃ /Cu/ZnO Catalysts Prepared by Sequential Precipitation. <i>Catalysts</i> , 2019, 9, 524.	3.5	9
42	Synergy effects of Al ₂ O ₃ promoter on a highly ordered mesoporous heterogeneous Rh-g-C ₃ N ₄ for a liquid-phase carbonylation of methanol. <i>Applied Catalysis A: General</i> , 2019, 585, 117209.	4.3	10
43	Ordered Mesoporous Co ₃ O ₄ /Al ₂ O ₃ 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
44	Nickel oxide-silica core-shell catalyst for acetylene hydroxycarbonylation. <i>Catalysis Communications</i> , 2019, 123, 86-90.	3.3	4
45	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
46	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
47	Synergy effects of basic graphitic-C ₃ N ₄ over acidic Al ₂ O ₃ for a liquid-phase decarboxylation of naphthenic acids. <i>Fuel Processing Technology</i> , 2019, 184, 36-44.	7.2	15
48	Roles of Structural Promoters for Direct CO ₂ Hydrogenation to Dimethyl Ether over Ordered Mesoporous Bifunctional Cu/M ⁺ Al ₂ O ₃ (M = Ga or Zn). <i>ACS Catalysis</i> , 2019, 9, 679-690.	11.2	64
49	Synthesis and characterization of Pt-, Pd-, and Ru-promoted Ni ²⁺ Ce _{0.6} Zr _{0.4} O ₂ catalysts for efficient biodiesel production by deoxygenation of oleic acid. <i>Fuel</i> , 2019, 236, 928-933.	6.4	45
50	Catalytic Decomposition of Pyrolysis Fuel Oil over in Situ Carbon-Coated Ferrierite Zeolite for Selective Hydrogen Production. <i>Energy & Fuels</i> , 2018, 32, 3792-3799.	5.1	3
51	Key properties of Ni ²⁺ MgO/Ce ₂ O ₃ , Ni ²⁺ MgO/Zr ₂ O ₃ , and Ni ²⁺ MgO/(1-x)Zr(x)O ₂ catalysts for the reforming of methane with carbon dioxide. <i>Green Chemistry</i> , 2018, 20, 1621-1633.	9.0	90
52	Roles of Al ₂ O ₃ promoter for an enhanced structural stability of ordered-mesoporous Co ₃ O ₄ catalyst during CO hydrogenation to hydrocarbons. <i>Fuel</i> , 2018, 225, 460-471.	6.4	17
53	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
54	Low temperature steam reforming of methane using metal oxide promoted Ni-Ce _{0.8} Zr _{0.2} O ₂ catalysts in a compact reformer. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 262-270.	7.1	29

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55	Kinetic models of Fischer-Tropsch synthesis reaction over granule-type Pt-promoted Co/Al ₂ O ₃ catalyst. Korean Journal of Chemical Engineering, 2018, 35, 1263-1273.	2.7	12
56	Rh-Mn/tungsten carbides for direct synthesis of mixed alcohols from syngas: Effects of tungsten carbide phases. Microporous and Mesoporous Materials, 2018, 255, 44-52.	4.4	24
57	The effect of titration time on the catalytic performance of Cu/CeO ₂ catalysts for water-gas shift reaction. Catalysis Today, 2018, 309, 83-88.	4.4	20
58	Adjusted interactions of nickel nanoparticles with cobalt-modified MgAl ₂ O ₄ -SiC for an enhanced catalytic stability during steam reforming of propane. Applied Catalysis A: General, 2018, 549, 117-133.	4.3	32
59	Effect of alkali and alkaline earth metal on Co/CeO ₂ catalyst for the water-gas shift reaction of waste derived synthesis gas. Applied Catalysis A: General, 2018, 551, 63-70.	4.3	51
60	Synergistic effects of Nb ₂ O ₅ promoter on Ru/Al ₂ O ₃ for an aqueous-phase hydrodeoxygenation of glycerol to hydrocarbons. Applied Catalysis A: General, 2018, 551, 49-62.	4.3	20
61	Selective ethanol synthesis via multi-step reactions from syngas: Ferrierite-based catalysts and fluidized-bed reactor application. Catalysis Today, 2018, 303, 93-99.	4.4	14
62	Dimethyl ether carbonylation to methyl acetate over highly crystalline zeolite seed-derived ferrierite. Catalysis Science and Technology, 2018, 8, 3060-3072.	4.1	29
63	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
64	Differences in DNA Probe-Mediated Aggregation Behavior of Gold Nanomaterials Based on Their Geometric Appearance. Langmuir, 2018, 34, 14869-14874.	3.5	5
65	Ga-doped Cu/H-nanozeolite-Y catalyst for selective hydrogenation and hydrodeoxygenation of lignin-derived chemicals. Green Chemistry, 2018, 20, 3253-3270.	9.0	60
66	Hydrodynamic characteristics at the layer inversion point in three-phase fluidized beds with binary solids. Chemical Engineering Science, 2017, 157, 99-106.	3.8	11
67	Roles of phosphorous-modified Al ₂ O ₃ for an enhanced stability of Co/Al ₂ O ₃ for CO hydrogenation to hydrocarbons. Journal of Molecular Catalysis A, 2017, 426, 177-189.	4.8	14
68	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
69	Aqueous phase reforming of ethylene glycol over bimetallic platinum-cobalt on ceria-zirconia mixed oxide. International Journal of Hydrogen Energy, 2017, 42, 9892-9902.	7.1	29
70	Optimization of Cobalt Loading in Co/CeO ₂ Catalyst for the High Temperature Water-Gas Shift Reaction. Topics in Catalysis, 2017, 60, 721-726.	2.8	32
71	Reduction-oxidation kinetics of three different iron oxide phases for CO ₂ activation to CO. Fuel, 2017, 202, 547-555.	6.4	20
72	Recent progress for direct synthesis of dimethyl ether from syngas on the heterogeneous bifunctional hybrid catalysts. Applied Catalysis B: Environmental, 2017, 217, 494-522.	20.2	181

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73	Graphene: Microtopography-Guided Conductive Patterns of Liquid-Driven Graphene Nanoplatelet Networks for Stretchable and Skin-Conformal Sensor Array (Adv. Mater. 21/2017). Advanced Materials, 2017, 29, .	21.0	0
74	Non-stoichiometric SnS microspheres with highly enhanced photoreduction efficiency for Cr(V^{6+}) ions. RSC Advances, 2017, 7, 30533-30541.	3.6	38
75	Microtopography-Guided Conductive Patterns of Liquid-Driven Graphene Nanoplatelet Networks for Stretchable and Skin-Conformal Sensor Array. Advanced Materials, 2017, 29, 1606453.	21.0	101
76	Gas holdup and hydrodynamic flow regime transition in bubble columns. Journal of Industrial and Engineering Chemistry, 2017, 56, 450-462.	5.8	29
77	Ni/M-Al ₂ O ₃ (M=Sm, Ce or Mg) for combined steam and CO ₂ reforming of CH ₄ from coke oven gas. Journal of CO ₂ Utilization, 2017, 21, 211-218.	6.8	42
78	Highly Ordered Mesoporous Fe ₂ O ₃ -ZrO ₂ Bimetal Oxides for an Enhanced CO Hydrogenation Activity to Hydrocarbons with Their Structural Stability. ACS Catalysis, 2017, 7, 5955-5964.	11.2	63
79	Effects of CO ₂ on the deactivation behaviors of Co/Al ₂ O ₃ and Co/SiO ₂ in CO hydrogenation to hydrocarbons. Catalysis Science and Technology, 2017, 7, 4079-4091.	4.1	14
80	Novel heterogeneous Rh-incorporated graphitic-carbon nitride for liquid-phase carbonylation of methanol to acetic acid. Catalysis Communications, 2017, 99, 141-145.	3.3	26
81	Direct activation of CH ₄ to oxygenates and unsaturated hydrocarbons using N ₂ O on Fe-modified zeolites. Journal of Molecular Catalysis A, 2017, 426, 130-140.	4.8	22
82	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
83	Methyl Acetate Synthesis by Esterification on the Modified Ferrierite: Correlation of Acid Sites Measured by Pyridine IR and NH ₃ -TPD for Steady-State Activity. Journal of Nanoscience and Nanotechnology, 2016, 16, 4626-4630.	0.9	11
84	Aqueous phase reforming and hydrodeoxygenation of ethylene glycol on Pt/SiO ₂ -Al ₂ O ₃ : effects of surface acidity on product distribution. RSC Advances, 2016, 6, 68433-68444.	3.6	15
85	Dehydrochlorination of polyvinylchloride using Al-modified graphitic-C ₃ N ₄ . RSC Advances, 2016, 6, 20728-20733.	3.6	8
86	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
87	Ordered mesoporous CoMO _x (M = Al or Zr) mixed oxides for Fischer-Tropsch synthesis. Chemical Communications, 2016, 52, 4820-4823.	4.1	24
88	Preferential CO oxidation over supported Pt catalysts. Korean Journal of Chemical Engineering, 2016, 33, 1781-1787.	2.7	9
89	Fischer-Tropsch synthesis on the cobalt impregnated catalyst using carbon-coated Ni/SiO ₂ . Korean Journal of Chemical Engineering, 2016, 33, 1565-1570.	2.7	10
90	Fischer-Tropsch Synthesis on Ordered Mesoporous Cobalt-Based Catalysts with Compact Multichannel Fixed-Bed Reactor Application: A Review. Catalysis Surveys From Asia, 2016, 20, 210-230.	2.6	13

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91	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
92	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
93	Thermo-catalytic decomposition of waste lubricating oil over carbon catalyst. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2891-2897.	2.7	3
94	Effect of Mn promoter on Rh/tungsten carbide on product distributions of alcohols and hydrocarbons by CO hydrogenation. <i>RSC Advances</i> , 2016, 6, 101535-101543.	3.6	8
95	Removal of Benzoic Acid in Heavy Oils by Esterification Using Modified Ferrierite: Roles of Brønsted and Lewis Acid Sites. <i>Energy & Fuels</i> , 2016, 30, 5391-5397.	5.1	7
96	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
97	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
98	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
99	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
100	Selective carbonylation of dimethyl ether to methyl acetate on Ferrierite. <i>Catalysis Communications</i> , 2016, 75, 28-31.	3.3	50
101	Water gas shift reaction on the Mn-modified ordered mesoporous Co ₃ O ₄ . <i>Microporous and Mesoporous Materials</i> , 2016, 221, 204-211.	4.4	29
102	Facile synthesis of flower-like Ni-Co(OH) ₂ nanostructures for electrochemical water splitting and pseudocapacitor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 175-179.	5.8	18
103	Effect of the ordered meso-macroporous structure of Co/SiO ₂ on the enhanced activity of hydrogenation of CO to hydrocarbons. <i>Catalysis Science and Technology</i> , 2016, 6, 4221-4231.	4.1	18
104	Fischer-Tropsch synthesis on the Al ₂ O ₃ -modified ordered mesoporous Co ₃ O ₄ with an enhanced catalytic activity and stability. <i>Catalysis Today</i> , 2016, 265, 27-35.	4.4	28
105	Fischer-Tropsch synthesis on potassium-modified Fe ₃ O ₄ nanoparticles. <i>Research on Chemical Intermediates</i> , 2016, 42, 335-350.	2.7	10
106	Stabilized ordered-mesoporous Co ₃ O ₄ 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
107	Carbonylation of Dimethyl Ether to Methyl Acetate on Zr-Modified Ferrierite. <i>Advanced Porous Materials</i> , 2016, 4, 200-205.	0.3	5
108	Effect of Heat Treatment on the Electrochemical Properties of Mn Oxide-Based Powder Prepared Using a Wet Chemical Process. <i>Science of Advanced Materials</i> , 2016, 8, 89-95.	0.7	3

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109	Stable Syngas Production by Concurrent Methane Decomposition and Carbon Dioxide Gasification with Activated Carbon. <i>Science of Advanced Materials</i> , 2016, 8, 205-211.	0.7	2
110	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
111	The role of the acidity of alumina prepared by aluminum-carbon black composite for CO hydrogenation to dimethyl ether on hybrid Cu ²⁺ /ZnO ²⁺ /Al ₂ O ₃ /alumina. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 116, 173-189.	1.7	13
112	Optimization of a highly active nano-sized Pt/CeO ₂ catalyst via Ce(OH)CO ₃ for the water-gas shift reaction. <i>Renewable Energy</i> , 2015, 79, 78-84.	8.9	24
113	Redox of titanium oxides by methane and water for application to cyclic syngas and hydrogen production systems. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2518-2528.	7.1	4
114	Combined Steam and CO ₂ Reforming of CH ₄ on LaSrNiO _x /Mixed Oxides Supported on Al ₂ O ₃ -Modified SiC Support. <i>Energy & Fuels</i> , 2015, 29, 1055-1065.	5.1	34
115	Reduction and oxidation kinetics of different phases of iron oxides. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2613-2620.	7.1	55
116	Aqueous phase reforming of ethylene glycol on Pt/CeO ₂ -ZrO ₂ : effects of cerium to zirconium molar ratio. <i>RSC Advances</i> , 2015, 5, 54806-54815.	3.6	11
117	Combined steam and CO ₂ reforming of CH ₄ 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
118	Thermally Stabilized Cobalt-Based Fischer-Tropsch Catalysts by Phosphorous Modification of Al ₂ O ₃ : Effect of Calcination Temperatures on Catalyst Stability. <i>ChemCatChem</i> , 2015, 7, 1460-1469.	3.7	21
119	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
120	Modified Nano-Perovskite Catalysts for the Steam and CO ₂ Reforming of Methane. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5889-5892.	0.9	0
121	Facile Synthesis of Hierarchically Structured Bi ₂ S ₃ /Bi ₂ WO ₆ Photocatalysts for Highly Efficient Reduction of Cr(VI). <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2847-2855.	6.7	146
122	Metal oxide (MgO, CaO, and La ₂ O ₃) promoted Ni-Ce _{0.8} Zr _{0.2} O ₂ catalysts for H ₂ and CO production from two major greenhouse gases. <i>Renewable Energy</i> , 2015, 79, 91-95.	8.9	47
123	Single-step synthesis of dimethyl ether from syngas on Al ₂ O ₃ -modified CuO ²⁺ /ZnO ²⁺ /Al ₂ O ₃ /ferrierite catalysts: Effects of Al ₂ O ₃ content. <i>Catalysis Today</i> , 2014, 228, 175-182.	4.4	31
124	Morphological variation of highly porous Ni ²⁺ /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
125	Entrainment of Geldart C particles in fluidized beds with binary particles. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 2094-2100.	2.7	1
126	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

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127	Fischer-Tropsch synthesis on cobalt/Al ₂ O ₃ -modified SiC catalysts: effect of cobalt-alumina interactions. <i>Catalysis Science and Technology</i> , 2014, 4, 343-351.	4.1	32
128	Roles of Ruthenium-Support Interactions of Size-Controlled Ruthenium Nanoparticles for the Product Distribution of Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2014, 4, 1054-1060.	11.2	49
129	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
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	Thermo-catalytic decomposition of propane over carbon black in a fluidized bed for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14800-14807.	7.1	7
132	Catalyst deactivation by carbon formation during CO hydrogenation to hydrocarbons on mesoporous Co ₃ O ₄ . <i>Microporous and Mesoporous Materials</i> , 2014, 188, 196-202.	4.4	50
133	Tungsten oxides supported on nano-size zirconia for cyclic production of syngas and hydrogen by redox operations. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 961-971.	2.7	7
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