Won-Jun Jang

List of Publications by Year
in descending order

64 papers	2,824 citations	147801 31 h-index	175258 52 g-index
64 all docs	64 docs citations	64 times ranked	2468 citing authors

#	Article	IF	Citations
1	A review on dry reforming of methane in aspect of catalytic properties. Catalysis Today, 2019, 324, 15-26.	4.4	477
2	Combined steam and carbon dioxide reforming of methane and side reactions: Thermodynamic equilibrium analysis and experimental application. Applied Energy, 2016, 173, 80-91.	10.1	172
3	Low-temperature waterâ€“gas shift reaction over supported Cu catalysts. Renewable Energy, 2014, 65, 102-107.	8.9	119
4	Study on coke formation over Ni/Î³-Al2O3, Co-Ni/Î³-Al2O3, and Mg-Co-Ni/Î³-Al2O3 catalysts for carbon dioxide reforming of methane. Fuel, 2014, 136, 194-200.	6.4	116
5	Key properties of Niâ€“MgOâ€“CeO₂, Niâ€“MgOâ€“ZrO₂, and Niâ€“MgOâ€“Ce_(1âˆ’x)Zr_(x)O₂catalysts for the reforming of methane with carbon dioxide. Green Chemistry, 2018, 20, 1621-1633.	9.0	90
6	Effect of preparation method on the oxygen vacancy concentration of CeO 2 -promoted Cu/Î³-Al 2 O 3 catalysts for HTS reactions. Chemical Engineering Journal, 2016, 306, 908-915.	12.7	86
7	Hydrogen production by the water-gas shift reaction using CuNi/Fe₂O₃ catalyst. Catalysis Science and Technology, 2015, 5, 2752-2760.	4.1	83
8	A crucial role for the CeO₂â€“ZrO₂ support for the low temperature water gas shift reaction over Cuâ€“CeO₂â€“ZrO₂ catalysts. Catalysis Science and Technology, 2015, 5, 3706-3713.	4.1	77
9	H2 production from a single stage waterâ€“gas shift reaction over Pt/CeO2, Pt/ZrO2, and Pt/Ce(1âˆ')Zr()O2 catalysts. International Journal of Hydrogen Energy, 2013, 38, 4502-4507.	7.1	76
10	Hydrogen production from low temperature WGS reaction on co-precipitated Cuâ€“CeO2 catalysts: An optimization of Cu loading. International Journal of Hydrogen Energy, 2014, 39, 9135-9142.	7.1	68
11	H2 and CO production over a stable Niâ€“MgOâ€“Ce0.8Zr0.2O2 catalyst from CO2 reforming of CH4. International Journal of Hydrogen Energy, 2013, 38, 4508-4512.	7.1	59
12	Comparative study on cubic and tetragonal Cuâ€“CeO2â€“ZrO2 catalysts for water gas shift reaction. Journal of Industrial and Engineering Chemistry, 2015, 27, 35-39.	5.8	57
13	Optimization of unsupported CoMo catalysts for decarboxylation of oleic acid. Catalysis Communications, 2015, 67, 16-20.	3.3	53
14	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
15	The effect of preparation method on the catalytic performance over superior MgO-promoted Niâ€“Ce0.8Zr0.2O2 catalyst for CO2 reforming of CH4. International Journal of Hydrogen Energy, 2013, 38, 13649-13654.	7.1	49
16	High-Temperature Water Gas Shift Reaction Over Fe/Al/Cu Oxide Based Catalysts Using Simulated Waste-Derived Synthesis Gas. Catalysis Letters, 2013, 143, 438-444.	2.6	48
17	Deoxygenation of oleic acid over Ce(1â€“x)Zr(x)O2 catalysts in hydrogen environment. Renewable Energy, 2014, 65, 36-40.	8.9	48
18	Metal oxide (MgO, CaO, and La2O3) promoted Ni-Ce0.8Zr0.2O2 catalysts for H2 and CO production from two major greenhouse gases. Renewable Energy, 2015, 79, 91-95.	8.9	47

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19	Synthesis and characterization of Pt-, Pd-, and Ru-promoted Niâ€“Ce0.6Zr0.4O2 catalysts for efficient biodiesel production by deoxygenation of oleic acid. Fuel, 2019, 236, 928-933.	6.4	45
20	Hydrogen production from waterâ€“gas shift reaction over Niâ€“Cuâ€“CeO 2 oxide catalyst: TheÂeffect of preparation methods. International Journal of Hydrogen Energy, 2015, 40, 9209-9216.	7.1	43
21	Performance of spinel ferrite catalysts integrated with mesoporous Al2O3 in the high temperature waterâ€“gas shift reaction. Chemical Engineering Journal, 2015, 265, 100-109.	12.7	43
22	Chromium free high temperature waterâ€“gas shift catalyst for the production of hydrogen from waste derived synthesis gas. Applied Catalysis A: General, 2016, 522, 21-31.	4.3	43
23	Synthesis of highly active nano-sized (1 wt.% Pt/CeO2) catalyst for water gas shift reaction in medium temperature application. Catalysis Today, 2012, 185, 113-118.	4.4	42
24	The effect of preparation method on Fe/Al/Cu oxide-based catalyst performance for high temperature water gas shift reaction using simulated waste-derived synthesis gas. International Journal of Hydrogen Energy, 2015, 40, 12268-12274.	7.1	40
25	Design and scale-up of a Cr-free Fe-Al-Cu catalyst for hydrogen production from waste-derived synthesis gas. Applied Catalysis B: Environmental, 2019, 249, 72-81.	20.2	39
26	Facile production of biofuel via solvent-free deoxygenation of oleic acid using a CoMo catalyst. Applied Catalysis B: Environmental, 2018, 239, 644-653.	20.2	38
27	Highly Active and Stable Pt-Loaded Ce_{0.75}Zr_{0.25}O₂ Yolkâ€“Shell Catalyst for Waterâ€“Gas Shift Reaction. ACS Applied Materials & Interfaces, 2016, 8, 17239-17244.	8.0	36
28	Mesoporous NiCuâ€“CeO₂ oxide catalysts for high-temperature waterâ€“gas shift reaction. RSC Advances, 2015, 5, 1430-1437.	3.6	35
29	Synthesis gas production from carbon dioxide reforming of methane over Ni-MgO catalyst: Combined effects of titration rate during co-precipitation and CeO2 addition. Fuel Processing Technology, 2021, 219, 106877.	7.2	34
30	Effect of the redox properties of support oxide over cobalt-based catalysts in high temperature water-gas shift reaction. Molecular Catalysis, 2017, 433, 145-152.	2.0	33
31	Optimization of Cobalt Loading in Coâ€“CeO2 Catalyst for the High Temperature Waterâ€“Gas Shift Reaction. Topics in Catalysis, 2017, 60, 721-726.	2.8	32
32	High temperature waterâ€“gas shift without pre-reduction over spinel ferrite catalysts synthesized by glycine assisted solâ€“gel combustion method. International Journal of Hydrogen Energy, 2016, 41, 3870-3876.	7.1	30
33	Water gas shift reaction on the Mn-modified ordered mesoporous Co 3 O 4. Microporous and Mesoporous Materials, 2016, 221, 204-211.	4.4	29
34	Low temperature steam reforming of methane using metal oxide promoted Ni-Ce0.8Zr0.2O2 catalysts in a compact reformer. International Journal of Hydrogen Energy, 2018, 43, 262-270.	7.1	29
35	A comparison study on high-temperature waterâ€“gas shift reaction over Fe/Al/Cu and Fe/Al/Ni catalysts using simulated waste-derived synthesis gas. Journal of Material Cycles and Waste Management, 2014, 16, 650-656.	3.0	28
36	Effect of precipitation sequence on physicochemical properties of CeO2 support for hydrogen production from low-temperature water-gas shift reaction. International Journal of Hydrogen Energy, 2018, 43, 17718-17725.	7.1	26

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37	H2 production from high temperature shift of the simulated waste derived synthesis gas over magnetite catalysts prepared by citric acid assisted direct synthesis method. International Journal of Hydrogen Energy, 2013, 38, 8699-8703.	7.1	25
38	Optimization of a highly active nano-sized Pt/CeO2 catalyst via Ce(OH)CO3 for the water-gas shift reaction. Renewable Energy, 2015, 79, 78-84.	8.9	24
39	Petroleum like biodiesel production by catalytic decarboxylation of oleic acid over Pd/Ce-ZrO2 under solvent-free condition. Applied Catalysis A: General, 2018, 563, 163-169.	4.3	24
40	Effect of calcination temperature on the association between free NiO species and catalytic activity of Niâˆ'Ce0.6Zr0.4O2 deoxygenation catalysts for biodiesel production. Renewable Energy, 2019, 131, 144-151.	8.9	24
41	Increase in stability of BaCo/CeO2 catalyst by optimizing the loading amount of Ba promoter for high-temperature water-gas shift reaction using waste-derived synthesis gas. Renewable Energy, 2020, 145, 2715-2722.	8.9	24
42	An important parameter for synthesis of Al2O3 supported Cu-Zn catalysts in low-temperature water-gas shift reaction under practical reaction condition. International Journal of Hydrogen Energy, 2019, 44, 14853-14860.	7.1	21
43	Synthesis of a Novel Nano-Sized Pt/ZnO Catalyst for Water Gas Shift Reaction in Medium Temperature Application. Catalysis Letters, 2012, 142, 1075-1081.	2.6	20
44	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
45	Effect of support materials and Ni loading on catalytic performance for carbon dioxide reforming of coke oven gas. International Journal of Hydrogen Energy, 2019, 44, 8233-8242.	7.1	20
46	Deoxygenation of non-edible fatty acid for green diesel production: Effect of metal loading amount over Ni/MgOâ€"Al2O3 on the catalytic performance and reaction pathway. Fuel, 2022, 311, 122488.	6.4	19
47	Catalytic deoxygenation of oleic acid over a Ni-CeZrO2 catalyst. Fuel, 2019, 258, 116179.	6.4	18
48	The optimization of Nb loading amount over Cuâ€"Nbâ€"CeO2 catalysts for hydrogen production via the low-temperature water gas shift reaction. International Journal of Hydrogen Energy, 2020, 45, 9648-9657.	7.1	17
49	The investigation of non-noble metal doped mesoporous cobalt oxide catalysts for the waterâ€"gas shift reaction. RSC Advances, 2016, 6, 52754-52760.	3.6	14
50	Alkali resistant Ni-loaded yolk-shell catalysts for direct internal reforming in molten carbonate fuel cells. Journal of Power Sources, 2017, 352, 1-8.	7.8	14
51	Bio-Diesel Production from Deoxygenation Reaction Over Ce_{0.6}Zr_{0.4}O₂ Supported Transition Metal (Ni, Cu, Co, and Mo) Catalysts. Journal of Nanoscience and Nanotechnology, 2016, 16, 4587-4592.	0.9	13
52	Preparation of a Ni-MgO-Al2O3 catalyst with high activity and resistance to potassium poisoning during direct internal reforming of methane in molten carbonate fuel cells. Journal of Power Sources, 2018, 378, 597-602.	7.8	13
53	The role of additives (Ba, Zr, and Nd) on Ce/Cu/Al2O3 catalyst for water-gas shift reaction. International Journal of Hydrogen Energy, 2020, 45, 24726-24737.	7.1	13
54	Rapid synthesis of magnetite catalysts incorporated with M (Cu, Ni, Zn, and Co) promoters for high temperature water gas shift reaction. New Journal of Chemistry, 2014, 38, 4872-4878.	2.8	12

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55	Effect of precipitation on physico-chemical and catalytic properties of Cu-Zn-Al catalyst for water-gas shift reaction. Korean Journal of Chemical Engineering, 2019, 36, 1243-1248.	2.7	12
56	Preferential CO oxidation over supported Pt catalysts. Korean Journal of Chemical Engineering, 2016, 33, 1781-1787.	2.7	9
57	An important factor for the water gas shift reaction activity of Cu-loaded cubic Ce0.8Zr0.2O2 catalysts. Environmental Engineering Research, 2018, 23, 339-344.	2.5	9
58	One-pot solâ€“gel synthesis of a CoMo catalyst for sustainable biofuel production by solvent- and hydrogen-free deoxygenation: effect of the citric acid ratio. Sustainable Energy and Fuels, 2020, 4, 2841-2849.	4.9	8
59	Reducible oxide (CeO2, ZrO2, and CeO2-ZrO2) promoted Ni-MgO catalysts for carbon dioxide reforming of methane reaction. Korean Journal of Chemical Engineering, 2020, 37, 1130-1136.	2.7	8
60	A comparison of Cu/CeO2 catalysts prepared via different precipitants/digestion methods for single stage water gas shift reactions. Catalysis Today, 2022, 388-389, 237-246.	4.4	8
61	Deactivation of SiO2 supported Ni catalysts by structural change in the direct internal reforming reaction of molten carbonate fuel cell. Catalysis Communications, 2017, 101, 44-47.	3.3	7
62	The Effect of Metal on Catalytic Performance Over MFe₂O₄ Catalysts for High Temperature Water-Gas Shift Reaction. Journal of Nanoelectronics and Optoelectronics, 2015, 10, 530-534.	0.5	4
63	A Study on Cu Based Catalysts for Water Gas Shift Reaction to Produce Hydrogen from Waste-Derived Synthesis Gas. Transactions of the Korean Hydrogen and New Energy Society, 2014, 25, 227-233.	0.6	3
64	Thermodynamic Analysis of Alkane Steam Reforming for Hydrogen Production. Journal of Korea Society of Waste Management, 2021, 38, 395-404.	0.2	0