

Chang Hyun Ko

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,836
citations

257101

24
h-index

174990

52
g-index

53
all docs

53
docs citations

53
times ranked

3600
citing authors

#	ARTICLE	IF	CITATIONS
1	Valorization of hazardous COVID-19 mask waste while minimizing hazardous byproducts using catalytic gasification. <i>Journal of Hazardous Materials</i> , 2022, 423, 127222.	6.5	33
2	Hydrogen-rich gas production via steam gasification of food waste over basic oxides (MgO/CaO/SrO) promoted-Ni/Al ₂ O ₃ catalysts. <i>Chemosphere</i> , 2022, 287, 132224.	4.2	18
3	Simultaneous impregnation of Ni and an additive via one-step melt-infiltration: Effect of alkaline-earth metal (Ca, Mg, Sr, and Ba) addition on Ni/β-Al ₂ O ₃ for CO ₂ methanation. <i>Chemical Engineering Journal</i> , 2022, 428, 131393.	6.6	19
4	Optimization of nano-catalysts for application in compact reformers. <i>Chemical Engineering Journal</i> , 2022, 431, 134299.	6.6	42
5	Production of H ₂ - and CO-rich syngas from the CO ₂ gasification of cow manure over (Sr/Mg)-promoted-Ni/Al ₂ O ₃ catalysts. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37218-37226.	3.8	10
6	Enhancement in nickel-silica interface generation by surfactant-assisted melt-infiltration: Surfactant selection and application in CO ₂ hydrogenation. <i>Chemical Engineering Journal</i> , 2022, 437, 135166.	6.6	5
7	Enhanced CO ₂ electroconversion of <i>Rhodobacter sphaeroides</i> by cobalt-phosphate complex assisted water oxidation. <i>Bioelectrochemistry</i> , 2022, 145, 108102.	2.4	4
8	Bifunctional metal doping engineering of Ni-supported alumina catalyst for dry methane reforming. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108058.	3.3	12
9	Biohydrogen production from catalytic conversion of food waste via steam and air gasification using eggshell- and homo-type Ni/Al ₂ O ₃ catalysts. <i>Bioresource Technology</i> , 2021, 320, 124313.	4.8	59
10	Mesoporous Titania as a Support of Gallium-Based Catalysts for Enhanced Ethane Dehydrogenation Performance. <i>Catalysis Letters</i> , 2021, 151, 2748-2761.	1.4	4
11	Impregnation of probiotics into porous TiO ₂ support for enhanced viability. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 475-479.	1.2	1
12	Effect of eggshell- and homo-type Ni/Al ₂ O ₃ catalysts on the pyrolysis of food waste under CO ₂ atmosphere. <i>Journal of Environmental Management</i> , 2021, 294, 112959.	3.8	16
13	<sc>Solid State</sc> Pseudomorphic Synthesis of Hollow Silica Nanospheres Using Cyclic Diammonium Molecules. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 463-466.	1.0	2
14	Egg-shell-type Ni supported on MgAl ₂ O ₄ pellets as catalyst for steam methane reforming: Enhanced coke-resistance and pellet stability. <i>Catalysis Today</i> , 2020, 352, 157-165.	2.2	19
15	Ni catalysts for dry methane reforming prepared by A-site exsolution on mesoporous defect spinel magnesium aluminate. <i>Applied Catalysis A: General</i> , 2020, 602, 117694.	2.2	40
16	Enhanced CO ₂ Methanation Reaction in C1 Chemistry over a Highly Dispersed Nickel Nanocatalyst Prepared Using the One-Step Melt-Infiltration Method. <i>Catalysts</i> , 2020, 10, 643.	1.6	7
17	Elevated conversion of CO ₂ to versatile formate by a newly discovered formate dehydrogenase from <i>Rhodobacter aestuarii</i> . <i>Bioresource Technology</i> , 2020, 305, 123155.	4.8	23
18	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.	4.3	24

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19	Effect of cobalt metal loading on Fischer-Tropsch synthesis activities over Co/Al ₂ O ₃ catalysts: CO conversion, C ₅ + productivity, and λ value. Research on Chemical Intermediates, 2019, 45, 4417-4429.	1.3	7
20	Preparation of Ni-based egg-shell-type catalyst on cylinder-shaped alumina pellets and its application for hydrogen production via steam methane reforming. International Journal of Hydrogen Energy, 2019, 44, 5314-5323.	3.8	15
21	Insight into the effect of metal and support for mild hydrodeoxygenation of lignin-derived phenolics to BTX aromatics. Chemical Engineering Journal, 2019, 377, 120121.	6.6	51
22	Acetaldehyde removal and increased H ₂ /CO gas yield from biomass gasification over metal-loaded Kraft lignin char catalyst. Journal of Environmental Management, 2019, 232, 330-335.	3.8	12
23	Enhanced electrochemical performance for EDLC using ordered mesoporous carbons (CMK-3 and Tj ETQq1 1 0.784314 rgBT /Overlook 90-97.	2.8	62
24	Mild hydrodeoxygenation of phenolic lignin model compounds over a FeReO _x /ZrO ₂ catalyst: zirconia and rhenium oxide as efficient dehydration promoters. Green Chemistry, 2018, 20, 1472-1483.	4.6	59
25	Ordered mesoporous carbon CMK-8 cathodes for high-power and long-cycle life sodium hybrid capacitors. Journal of Alloys and Compounds, 2018, 743, 639-645.	2.8	26
26	Metallic nickel supported on mesoporous silica as catalyst for hydrodeoxygenation: effect of pore size and structure. Research on Chemical Intermediates, 2018, 44, 3723-3735.	1.3	16
27	Rapid evaluation of coke resistance in catalysts for methane reforming using low steam-to-carbon ratio. Catalysis Today, 2018, 309, 140-146.	2.2	27
28	Facile production of biofuel via solvent-free deoxygenation of oleic acid using a CoMo catalyst. Applied Catalysis B: Environmental, 2018, 239, 644-653.	10.8	38
29	Petroleum like biodiesel production by catalytic decarboxylation of oleic acid over Pd/Ce-ZrO ₂ under solvent-free condition. Applied Catalysis A: General, 2018, 563, 163-169.	2.2	24
30	Hydrodeoxygenation of Pyrolysis Bio-Oil Over Ni Impregnated Mesoporous Materials. Journal of Nanoscience and Nanotechnology, 2018, 18, 1331-1335.	0.9	3
31	Catalytic Pyrolysis of Korean Pine (Pinus koraiensis) Nut Shell Over Mesoporous Al ₂ O ₃ . Journal of Nanoscience and Nanotechnology, 2018, 18, 1351-1355.	0.9	1
32	Catalytic Pyrolysis of <i>Pinus densiflora</i> Over Mesoporous Al ₂ O ₃ Catalysts. Journal of Nanoscience and Nanotechnology, 2018, 18, 6300-6303.	0.9	6
33	Preparation of egg-shell-type Ni/Ru bimetal alumina pellet catalysts: Steam methane reforming for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 18350-18357.	3.8	32
34	Catalytic Hydrodeoxygenation of Bio-Oils Derived from Pyrolysis of Cork Oak Using Supercritical Ethanol. Journal of Nanoscience and Nanotechnology, 2017, 17, 2674-2677.	0.9	3
35	Understanding the Effect of NO Adsorption on Potassium-Promoted Co ₃ O ₄ for N ₂ O Decomposition. Catalysis Letters, 2017, 147, 2886-2892.	1.4	7
36	Enhancement of C O bond cleavage to afford aromatics in the hydrodeoxygenation of anisole over ruthenium-supporting mesoporous metal oxides. Applied Catalysis A: General, 2017, 544, 84-93.	2.2	62

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37	Facile preparation of egg-shell-type pellet catalysts using immiscibility between hydrophobic solvent and hydrophilic solution: Enhancement of catalytic activity due to position control of metallic nickel inside alumina pellet. <i>Applied Catalysis A: General</i> , 2017, 530, 211-216.	2.2	19
38	Comparison between unsupported mesoporous Co ₃ O ₄ and supported Co ₃ O ₄ on mesoporous silica as catalysts for N ₂ O decomposition. <i>Catalysis Communications</i> , 2016, 82, 50-54.	1.6	29
39	Catalytic Hydrodeoxygenation of Bio-oil Model Compounds over Pt/HY Catalyst. <i>Scientific Reports</i> , 2016, 6, 28765.	1.6	133
40	Bio-Diesel Production from Deoxygenation Reaction Over Ce _{0.6} Zr _{0.4} O ₂ Supported Transition Metal (Ni, Cu, Co, and Mo) Catalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4587-4592.	0.9	13
41	Catalytic upgrading of lignin derived bio-oil model compound using mesoporous solid catalysts. <i>Research on Chemical Intermediates</i> , 2016, 42, 3-17.	1.3	15
42	Optimization of unsupported CoMo catalysts for decarboxylation of oleic acid. <i>Catalysis Communications</i> , 2015, 67, 16-20.	1.6	53
43	Deoxygenation of oleic acid over Ce(1-x)Zr(x)O ₂ catalysts in hydrogen environment. <i>Renewable Energy</i> , 2014, 65, 36-40.	4.3	48
44	Redox-buffer effect of Fe ²⁺ ions on the selective olefin/paraffin separation and hydrogen tolerance of a Cu ⁺ -based mesoporous adsorbent. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6653.	5.2	22
45	A New Type of Efficient CO ₂ Adsorbent with Improved Thermal Stability: Self-Assembled Nanohybrids with Optimized Microporosity and Gas Adsorption Functions. <i>Advanced Functional Materials</i> , 2013, 23, 4377-4385.	7.8	25
46	Polyimide nonwoven fabric-reinforced, flexible phosphosilicate glass composite membranes for high-temperature/low-humidity proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 18550.	6.7	27
47	Deoxygenation of microalgal oil into hydrocarbon with precious metal catalysts: Optimization of reaction conditions and supports. <i>Energy</i> , 2012, 47, 25-30.	4.5	65
48	Upgrading of biofuel by the catalytic deoxygenation of biomass. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1657-1665.	1.2	81
49	Electrochemical oxidation of some basic alcohols on multiwalled carbon nanotube-platinum composites. <i>Bulletin of Materials Science</i> , 2012, 35, 545-550.	0.8	6
50	Decarboxylation of microalgal oil without hydrogen into hydrocarbon for the production of transportation fuel. <i>Catalysis Today</i> , 2012, 185, 313-317.	2.2	57
51	The effect of calcination temperature on the performance of Ni/MgO-Al ₂ O ₃ catalysts for decarboxylation of oleic acid. <i>Catalysis Today</i> , 2011, 164, 457-460.	2.2	79
52	Hydrocarbon production from decarboxylation of fatty acid without hydrogen. <i>Catalysis Today</i> , 2010, 156, 44-48.	2.2	95
53	Characterization of the Porous Structure of SBA-15. <i>Chemistry of Materials</i> , 2000, 12, 1961-1968.	3.2	1,280