

Young-Woong Suh

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,167
citations

430874

18
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434195

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61
all docs

61
docs citations

61
times ranked

1232
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in dehydrogenation catalysts for heterocyclic and homocyclic liquid organic hydrogen carriers. Korean Journal of Chemical Engineering, 2022, 39, 20-37.	2.7	21
2	Highly efficient and robust Pt ensembles on mesoporous alumina for reversible H ₂ charge and release of commercial benzyltoluene molecules. Applied Catalysis B: Environmental, 2022, 305, 121061.	20.2	16
3	State-of-the-art Catalysts for Hydrogen Storage in Liquid Organic Hydrogen Carriers. Chemistry Letters, 2022, 51, 239-255.	1.3	27
4	Sustainable Catalytic Transformation of Biomass-Derived 5-Hydroxymethylfurfural to 2,5-Bis(hydroxymethyl)tetrahydrofuran. ChemSusChem, 2022, 15, .	6.8	11
5	Efficient Production of Adipic Acid by a Two-Step Catalytic Reaction of Biomass-Derived 2,5-Furandicarboxylic Acid. ChemSusChem, 2022, , .	6.8	6
6	Advanced heterolytic H ₂ adsorption of K-added Ru/MgO catalysts for accelerating hydrogen storage into aromatic benzyltoluenes. Journal of Energy Chemistry, 2022, 71, 333-343.	12.9	8
7	Yttria-Stabilized Zirconia of Balanced Acid-Base Pair for Selective Dehydration of 4-Methyl-2-pentanol to 4-Methyl-1-pentene. Catalysts, 2022, 12, 559.	3.5	3
8	5-(Chloromethyl)Furfural as a Potential Source for Continuous Hydrogenation of 5-(Hydroxymethyl)Furfural to 2,5-Bis(Hydroxymethyl)Furan. ChemPlusChem, 2022, 87, .	2.8	1
9	Feasible coupling of CH ₄ /H ₂ mixtures to H ₂ storage in liquid organic hydrogen carrier systems. Journal of Power Sources, 2022, 541, 231721.	7.8	8
10	Mesoporous sulfur-decorated Pt-Al ₂ O ₃ for dehydrogenation of perhydro benzyltoluenes: Activity-favorable adsorption of reaction species onto electron-deficient Pt atoms. Journal of Catalysis, 2022, 413, 127-137.	6.2	21
11	Kinetic Modeling of Ethylene Oligomerization to High-Chain-Length Olefins Over Al-SBA-15-Supported Ni Catalyst with LiAlH ₄ Co-catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2021, 132, 499-511.	1.7	1
12	Operation of bio-aviation fuel manufacturing facility via hydroprocessed esters and fatty acids process and optimization of fuel property for turbine engine test. Korean Journal of Chemical Engineering, 2021, 38, 1205-1223.	2.7	7
13	Stable Performance of Supported PdOx Catalyst on Mesoporous Silica-Alumina of Water Tolerance for Methane Combustion under Wet Conditions. Catalysts, 2021, 11, 670.	3.5	2
14	Remarkably fast low-temperature hydrogen storage into aromatic benzyltoluenes over MgO-supported Ru nanoparticles with homolytic and heterolytic H ₂ adsorption. Applied Catalysis B: Environmental, 2021, 286, 119889.	20.2	40
15	Hydrogenation of 5-hydroxymethylfurfural into 2,5-bis(hydroxymethyl)furan over mesoporous Cu-Al ₂ O ₃ catalyst: From batch to continuous processing. Journal of Industrial and Engineering Chemistry, 2021, 102, 186-194.	5.8	22
16	Superior Long-Term Stability of a Mesoporous Alumina-Supported Pt Catalyst in the Hydrodeoxygenation of Palm Oil. ACS Sustainable Chemistry and Engineering, 2021, 9, 1193-1202.	6.7	23
17	Phases of Cu/Zn/Al/Zr precursors linked to the property and activity of their final catalysts in CO ₂ hydrogenation to methanol. Catalysis Today, 2020, 347, 70-78.	4.4	17
18	Density functional theory study on the dehydrogenation of 1,2-dimethyl cyclohexane and 2-methyl piperidine on Pd and Pt catalysts. Catalysis Today, 2020, 352, 345-353.	4.4	30

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19	Ethylene Oligomerization over SiO ₂ -Al ₂ O ₃ Supported Ni ₂ P Catalyst. ChemCatChem, 2020, 12, 135-140.	3.7	14
20	Highly Active Mesoporous Cu-Al ₂ O ₃ Catalyst for the Hydrodeoxygenation of Furfural to 2-methylfuran. ChemCatChem, 2020, 12, 105-111.	3.7	22
21	Comparison of activity and stability of supported Ni ₂ P and Pt catalysts in the hydroprocessing of palm oil into normal paraffins. Journal of Industrial and Engineering Chemistry, 2020, 83, 189-199.	5.8	26
22	Benefits of the SiO ₂ -supported nickel phosphide catalyst on ethylene oligomerization. Applied Catalysis A: General, 2020, 591, 117376.	4.3	16
23	Ru/MnCo ₂ O ₄ as a catalyst for tunable synthesis of 2,5-bis(hydroxymethyl)furan or 2,5-bis(hydroxymethyl)tetrahydrofuran from hydrogenation of 5-hydroxymethylfurfural. Molecular Catalysis, 2020, 484, 110722.	2.0	33
24	Etherification of biomass-derived furanyl alcohols with aliphatic alcohols over silica-supported nickel phosphide catalysts: Effect of surplus P species on the acidity. Applied Catalysis A: General, 2020, 603, 117763.	4.3	16
25	Hydrogen storage into monobenzyltoluene over Ru catalyst supported on SiO ₂ -ZrO ₂ mixed oxides with different Si/Zr ratios. Korean Journal of Chemical Engineering, 2020, 37, 1427-1435.	2.7	14
26	Efficient hydrogen charge into monobenzyltoluene over Ru/MgO catalysts synthesized by thermolysis of Ru ₃ (CO) ₁₂ on porous Mg(OH) ₂ powder. Advanced Powder Technology, 2020, 31, 1682-1692.	4.1	10
27	Methane Combustion over Pd Catalysts Supported on Mesoporous Alumina. Transactions of the Korean Society of Automotive Engineers, 2020, 28, 353-357.	0.3	1
28	Direct Conversion of CO ₂ into Dimethyl Ether over Al ₂ O ₃ /Cu/ZnO Catalysts Prepared by Sequential Precipitation. Catalysts, 2019, 9, 524.	3.5	9
29	Dehydrogenation of 2-[(n-Methylcyclohexyl)Methyl]Piperidine over Mesoporous Pd-Al ₂ O ₃ Catalysts Prepared by Solvent Deficient Precipitation: Influence of Calcination Conditions. Catalysts, 2019, 9, 719.	3.5	8
30	A sustainable mesoporous palladium-alumina catalyst for efficient hydrogen release from N-heterocyclic liquid organic hydrogen carriers. Communications Chemistry, 2019, 2, .	4.5	45
31	Characteristics of exfoliated HNb ₃ O ₈ nanosheet derived from amorphous niobic acid and its application to dehydration of 2-heptanol. Korean Journal of Chemical Engineering, 2019, 36, 843-850.	2.7	4
32	An efficient Cu CeO ₂ citrate catalyst for higher aliphatic ketone synthesis via alkali-free alkylation of acetone with butanol. Materials Chemistry and Physics, 2019, 229, 402-411.	4.0	6
33	Effects of Al ³⁺ precipitation onto primitive amorphous Cu-Zn precipitate on methanol synthesis over Cu/ZnO/Al ₂ O ₃ catalyst. Korean Journal of Chemical Engineering, 2019, 36, 191-196.	2.7	6
34	2-(n-Methylbenzyl)pyridine: A Potential Liquid Organic Hydrogen Carrier with Fast H ₂ Release and Stable Activity in Consecutive Cycles. ChemSusChem, 2018, 11, 641-641.	6.8	1
35	Enhanced activity of CuO/ZnO catalyst on the decomposition of dimethylhexane-1,6-dicarbamate into dimethylhexane-1,6-diisocyanate. Research on Chemical Intermediates, 2018, 44, 3787-3796.	2.7	1
36	2-(n-Methylbenzyl)pyridine: A Potential Liquid Organic Hydrogen Carrier with Fast H ₂ Release and Stable Activity in Consecutive Cycles. ChemSusChem, 2018, 11, 661-665.	6.8	60

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37	One-step selective synthesis of 2-chlorobenzonitrile from 2-chlorotoluene via ammoxidation. <i>New Journal of Chemistry</i> , 2018, 42, 1892-1901.	2.8	11
38	Hydrogenation of the LOHC Compound Monobenzyl Toluene over ZrO ₂ -supported Ru Nanoparticles: A Consequence of Zirconium Hydroxide's Surface Hydroxyl Group and Surface Area. <i>ChemCatChem</i> , 2018, 10, 3406-3410.	3.7	19
39	Enhanced Activity and Stability of a Carbon-Coated Alumina-Supported Pd Catalyst in the Dehydrogenation of a Liquid Organic Hydrogen Carrier, Perhydro-2-methylbenzylpyridine. <i>ChemCatChem</i> , 2018, 10, 3892-3900.	3.7	25
40	An Efficient Catalytic Approach for Epoxidation of Styrene over Activated Marble Powder. <i>ChemistrySelect</i> , 2018, 3, 8473-8478.	1.5	4
41	Hydrogenation of levulinic acid with and without external hydrogen over Ni/SBA-15 catalyst. <i>Applied Petrochemical Research</i> , 2018, 8, 153-162.	1.3	7
42	MnCo ₂ O ₄ spinel supported ruthenium catalyst for air-oxidation of HMF to FDCA under aqueous phase and base-free conditions. <i>Green Chemistry</i> , 2017, 19, 1619-1623.	9.0	158
43	Effect of Glycerol on Coke Characteristics in the Aromatization of Aqueous Glycerol Solution. <i>Topics in Catalysis</i> , 2017, 60, 658-665.	2.8	11
44	Higher Brønsted acidity of WO ₃ /ZrO ₂ catalysts prepared using a high-surface-area zirconium oxyhydroxide. <i>Molecular Catalysis</i> , 2017, 438, 272-279.	2.0	28
45	Deoxygenation of Fatty Acid Over Three-Dimensionally Ordered Mesoporous Carbon Supported Palladium Catalysts. <i>Topics in Catalysis</i> , 2017, 60, 677-684.	2.8	5
46	Direct conversion of cellulose to high-yield methyl lactate over Ga-doped Zn/H-nanozeolite Y catalysts in supercritical methanol. <i>Green Chemistry</i> , 2017, 19, 1969-1982.	9.0	62
47	Hydrogenation of 2-benzylpyridine over alumina-supported Ru catalysts: Use of Ru ₃ (CO) ₁₂ as a Ru precursor. <i>Applied Catalysis A: General</i> , 2017, 547, 183-190.	4.3	18
48	Different catalytic behaviors of Pd and Pt metals in decalin dehydrogenation to naphthalene. <i>Catalysis Science and Technology</i> , 2017, 7, 3728-3735.	4.1	38
49	One-pot synthesis of ethylbenzene/1-phenylethanol and γ -butyrolactone from simultaneous acetophenone hydrogenation and 1,4-butanediol dehydrogenation over copper based catalysts: effects of the support. <i>RSC Advances</i> , 2017, 7, 35346-35356.	3.6	17
50	Coupling of 1,4-Butanediol Dehydrogenation with Nitrobenzene Hydrogenation for Simultaneous Synthesis of γ -Butyrolactone and Aniline over Promoted Cu-MgO Catalysts: Effect of Promoters. <i>Catalysis Letters</i> , 2017, 147, 90-101.	2.6	14
51	Effect of Mg/Al Atomic Ratio of Mg-Al Hydrotalcites on Their Catalytic Properties for the Isomerization of Glucose to Fructose. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8242-8247.	0.9	9
52	Cross-Aldol Condensation of Acetone and n-Butanol into Aliphatic Ketones over Supported Cu Catalysts on Ceria-Zirconia. <i>Catalysts</i> , 2017, 7, 249.	3.5	19
53	Facile Structure Tuning of a Methanol-Synthesis Catalyst towards the Direct Synthesis of Dimethyl Ether from Syngas. <i>ChemCatChem</i> , 2017, 9, 4484-4489.	3.7	8
54	Role of ZrO ₂ in Cu/ZnO/ZrO ₂ catalysts prepared from the precipitated Cu/Zn/Zr precursors. <i>Catalysis Today</i> , 2016, 265, 254-263.	4.4	27

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55	Phosgene-free decomposition of dimethylhexane-1,6-dicarbamate over ZnO. Research on Chemical Intermediates, 2016, 42, 57-70.	2.7	12
56	Activity of coprecipitated CuO/ZnO catalysts in the decomposition of dimethylhexane-1,6-dicarbamate. Catalysis Communications, 2015, 70, 34-39.	3.3	14
57	Aqueous phase reforming of ethylene glycol on Pt/CeO ₂ –ZrO ₂ : effects of cerium to zirconium molar ratio. RSC Advances, 2015, 5, 54806-54815.	3.6	11
58	Esterification of acetic acid with methanol to methyl acetate on Pd-modified zeolites: effect of Brønsted acid site strength on activity. Reaction Kinetics, Mechanisms and Catalysis, 2014, 112, 499-510.	1.7	15
59	Catalytic Vapor Cracking for Improvement of Bio-Oil Quality. Catalysis Surveys From Asia, 2011, 15, 161-180.	2.6	66
60	PLS-based kinetics modeling and optimization of the oxidative coupling of methane over Na ₂ WO ₄ /Mn/SiO ₂ catalyst. Korean Journal of Chemical Engineering, 2011, 28, 2142-2147.	2.7	13