

Jeong-Myeong Ha

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104
papers

3,052
citations

32
h-index

52
g-index

109
ext. papers

3,605
ext. citations

7.4
avg, IF

5.49
L-index

#	Paper	IF	Citations
104	Catalytic roles of metals and supports on hydrodeoxygenation of lignin monomer guaiacol. <i>Catalysis Communications</i> , 2012 , 17, 54-58	3.2	265
103	Polymorph selectivity under nanoscopic confinement. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3382-3	16.4	200
102	Manipulating crystal growth and polymorphism by confinement in nanoscale crystallization chambers. <i>Accounts of Chemical Research</i> , 2012 , 45, 414-23	24.3	132
101	Heteropolyacid supported on Zr-Beta zeolite as an active catalyst for one-pot transformation of furfural to γ -valerolactone. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 588-597	21.8	94
100	Delamination of layered zeolite precursors under mild conditions: synthesis of UCB-1 via fluoride/chloride anion-promoted exfoliation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3288-91	16.4	87
99	Recent progress in the thermal and catalytic conversion of lignin. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 111, 422-441	16.2	83
98	Phase Behavior and Polymorphism of Organic Crystals Confined within Nanoscale Chambers. <i>Crystal Growth and Design</i> , 2009 , 9, 4766-4777	3.5	82
97	A bioinspired approach for controlling accessibility in calix[4]arene-bound metal cluster catalysts. <i>Nature Chemistry</i> , 2010 , 2, 1062-8	17.6	81
96	Identification of site requirements for reduction of 4-nitrophenol using gold nanoparticle catalysts. <i>Catalysis Science and Technology</i> , 2013 , 3, 2976	5.5	77
95	Comparative study on two-step concentrated acid hydrolysis for the extraction of sugars from lignocellulosic biomass. <i>Bioresource Technology</i> , 2014 , 164, 221-31	11	65
94	Postsynthetic modification of gold nanoparticles with calix[4]arene enantiomers: origin of chiral surface plasmon resonance. <i>Langmuir</i> , 2009 , 25, 153-8	4	64
93	Production of brown algae pyrolysis oils for liquid biofuels depending on the chemical pretreatment methods. <i>Energy Conversion and Management</i> , 2014 , 86, 371-378	10.6	62
92	Synthesis and characterization of accessible metal surfaces in calixarene-bound gold nanoparticles. <i>Langmuir</i> , 2009 , 25, 10548-53	4	59
91	Thermotropic properties of organic nanocrystals embedded in ultrasmall crystallization chambers. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1392-9	3.4	59
90	Catalytic transfer hydrogenation/hydrogenolysis of guaiacol to cyclohexane over bimetallic RuRe/C catalysts. <i>Catalysis Communications</i> , 2016 , 86, 113-118	3.2	58
89	Hydrodeoxygenation of lignin-derived monomers and lignocellulose pyrolysis oil on the carbon-supported Ru catalysts. <i>Catalysis Today</i> , 2016 , 265, 192-198	5.3	54
88	Effective depolymerization of concentrated acid hydrolysis lignin using a carbon-supported ruthenium catalyst in ethanol/formic acid media. <i>Bioresource Technology</i> , 2017 , 234, 424-431	11	54

87	Effects of Carbohydrates on the Hydrodeoxygenation of Lignin-Derived Phenolic Compounds. <i>ACS Catalysis</i> , 2015 , 5, 433-437	13.1	52
86	Efficient depolymerization of lignin in supercritical ethanol by a combination of metal and base catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 57, 45-54	6.3	52
85	Selective oxygen species for the oxidative coupling of methane. <i>Molecular Catalysis</i> , 2017 , 435, 13-23	3.3	51
84	Production of high carbon number hydrocarbon fuels from a lignin-derived 2,2'-bis(4-phenolic dimer, benzyl phenyl ether, via isomerization of ether to alcohols on high-surface-area silica-alumina aerogel catalysts. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 668-676	21.8	50
83	Scaled-up production of C2 hydrocarbons by the oxidative coupling of methane over pelletized Na2WO4/Mn/SiO2 catalysts: Observing hot spots for the selective process. <i>Fuel</i> , 2013 , 106, 851-857	7.1	49
82	Hydro- and solvothermolysis of kraft lignin for maximizing production of monomeric aromatic chemicals. <i>Bioresource Technology</i> , 2016 , 203, 142-9	11	46
81	Effective hydrodeoxygenation of lignin-derived phenols using bimetallic RuRe catalysts: Effect of carbon supports. <i>Catalysis Today</i> , 2018 , 303, 191-199	5.3	42
80	Mild hydrodeoxygenation of phenolic lignin model compounds over a FeReOx/ZrO2 catalyst: zirconia and rhenium oxide as efficient dehydration promoters. <i>Green Chemistry</i> , 2018 , 20, 1472-1483	10	38
79	Oxidative Coupling of Methane Using Mg/Ti-Doped SiO2-Supported Na2WO4/Mn Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3667-3674	8.3	37
78	Design and preparation of high-surface-area Cu/ZnO/Al2O3 catalysts using a modified co-precipitation method for the water-gas shift reaction. <i>Applied Catalysis A: General</i> , 2013 , 462-463, 220-226	5.1	36
77	Oxidative coupling of methane to C2 hydrocarbons on the Mg/Ti mixed oxide-supported catalysts at the lower reaction temperature: Role of surface oxygen atoms. <i>Applied Catalysis A: General</i> , 2013 , 464-465, 68-77	5.1	34
76	Mercaptocalixarene-Capped Gold Nanoparticles via Postsynthetic Modification and Direct Synthesis: Effect of Calixarene Cavity-Metal Interactions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11372-11423	2.8	34
75	Effects of the preparation method on the crystallinity and catalytic activity of LaAlO3 perovskites for oxidative coupling of methane. <i>Applied Surface Science</i> , 2018 , 429, 55-61	6.7	33
74	Transition metal-doped TiO2 nanowire catalysts for the oxidative coupling of methane. <i>Catalysis Communications</i> , 2014 , 50, 54-58	3.2	33
73	Production of phenolic hydrocarbons using catalytic depolymerization of empty fruit bunch (EFB)-derived organosolv lignin on H2O-supported Ru. <i>Chemical Engineering Journal</i> , 2017 , 309, 187-196	14.7	32
72	Synthesis of alumina-carbon composite material for the catalytic conversion of furfural to furfuryl alcohol. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 52, 59-65	6.3	31
71	Hydrodeoxygenation of guaiacol on tungstated zirconia supported Ru catalysts. <i>Applied Catalysis A: General</i> , 2017 , 543, 10-16	5.1	30
70	Ketonization of hexanoic acid to diesel-blendable 6-undecanone on the stable zirconia aerogel catalyst. <i>Applied Catalysis A: General</i> , 2015 , 506, 288-293	5.1	30

69	Effects of metal or metal oxide additives on oxidative coupling of methane using Na ₂ WO ₄ /SiO ₂ catalysts: Reducibility of metal additives to manipulate the catalytic activity. <i>Applied Catalysis A: General</i> , 2018 , 562, 114-119	5.1	30
68	Heteropolyacid catalysts for Diels-Alder cycloaddition of 2,5-dimethylfuran and ethylene to renewable p-xylene. <i>Catalysis Today</i> , 2017 , 293-294, 167-175	5.3	29
67	Upgrading of sawdust pyrolysis oil to hydrocarbon fuels using tungstate-zirconia-supported Ru catalysts with less formation of cokes. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 56, 74-81	6.3	28
66	Water-Assisted Selective Hydrodeoxygenation of Lignin-Derived Guaiacol to Monoxygenates. <i>ChemCatChem</i> , 2015 , 7, 2669-2674	5.2	27
65	Oxidative coupling of methane over LaAlO ₃ perovskite catalysts prepared by a co-precipitation method: Effect of co-precipitation pH value. <i>Journal of Energy Chemistry</i> , 2019 , 35, 1-8	12	26
64	Two-step continuous upgrading of sawdust pyrolysis oil to deoxygenated hydrocarbons using hydrotreating and hydrodeoxygenating catalysts. <i>Catalysis Today</i> , 2018 , 303, 130-135	5.3	25
63	Catalytic fast co-pyrolysis of organosolv lignin and polypropylene over in-situ red mud and ex-situ HZSM-5 in two-step catalytic micro reactor. <i>Applied Surface Science</i> , 2020 , 511, 145521	6.7	24
62	Combined experimental and density functional theory (DFT) studies on the catalyst design for the oxidative coupling of methane. <i>Journal of Catalysis</i> , 2019 , 375, 478-492	7.3	23
61	Production of high-energy-density fuels by catalytic α -pinene dimerization: Effects of the catalyst surface acidity and pore width on selective dimer production. <i>Energy Conversion and Management</i> , 2016 , 116, 72-79	10.6	23
60	One-pot catalytic reaction to produce high-carbon-number dimeric deoxygenated hydrocarbons from lignin-derived monophenyl vanillin using Al ₂ O ₃ -cogelled Ru nanoparticles. <i>Applied Catalysis A: General</i> , 2016 , 524, 243-250	5.1	23
59	Continuous pyrolysis of organosolv lignin and application of biochar on gasification of high density polyethylene. <i>Applied Energy</i> , 2019 , 255, 113801	10.7	22
58	Alignment of Organic Crystals under Nanoscale Confinement. <i>Crystal Growth and Design</i> , 2012 , 12, 4494-4504	3.5	22
57	Low-temperature oxidative coupling of methane using alkaline earth metal oxide-supported perovskites. <i>Catalysis Today</i> , 2020 , 352, 127-133	5.3	22
56	Water-promoted selective heterogeneous catalytic trimerization of xylose-derived 2-methylfuran to diesel precursors. <i>Applied Catalysis A: General</i> , 2015 , 495, 200-205	5.1	21
55	Catalytic dehydrofluorination of 1,1,1,2,3-pentafluoropropane (HFC-245eb) to 2,3,3,3-tetrafluoropropene (HFO-1234yf) using in-situ fluorinated chromium oxyfluoride catalyst. <i>Catalysis Today</i> , 2017 , 293-294, 42-48	5.3	20
54	Production of phenolic hydrocarbons from organosolv lignin and lignocellulose feedstocks of hardwood, softwood, grass and agricultural waste. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 304-314	6.3	20
53	Layered MWW zeolite-supported Rh catalysts for the hydrodeoxygenation of lignin model compounds. <i>Catalysis Today</i> , 2017 , 293-294, 142-150	5.3	19
52	Preparation of LaAlO ₃ perovskite catalysts by simple solid-state method for oxidative coupling of methane. <i>Catalysis Today</i> , 2020 , 352, 134-139	5.3	19

51	A K ₂ NiF ₄ -type La ₂ Li _{0.5} Al _{0.5} O ₄ catalyst for the oxidative coupling of methane (OCM). <i>Catalysis Communications</i> , 2019 , 128, 105702	3.2	16
50	Highly durable Pt-supported niobia-silica aerogel catalysts in the aqueous-phase hydrodeoxygenation of 1-propanol. <i>Catalysis Communications</i> , 2012 , 29, 40-47	3.2	16
49	Catalytic behavior of ABO ₃ perovskites in the oxidative coupling of methane. <i>Molecular Catalysis</i> , 2020 , 489, 110925	3.3	15
48	On the synthesis and characterization of all-silica CHA zeolite particles. <i>Microporous and Mesoporous Materials</i> , 2014 , 184, 47-54	5.3	15
47	The roles of Ce _{0.5} Zr _{0.5} O ₂ in propane dehydrogenation: Enhancing catalytic stability and decreasing coke combustion temperature. <i>Applied Catalysis A: General</i> , 2012 , 443-444, 59-66	5.1	15
46	High-quality and phenolic monomer-rich bio-oil production from lignin in supercritical ethanol over synergistic Ru and Mg-Zr-oxide catalysts. <i>Chemical Engineering Journal</i> , 2020 , 396, 125175	14.7	14
45	Production of deoxygenated high carbon number hydrocarbons from furan condensates: Hydrodeoxygenation of biomass-based oxygenates. <i>Chemical Engineering Journal</i> , 2019 , 377, 119985	14.7	14
44	Plasma assisted oxidative coupling of methane (OCM) over Ag/SiO ₂ and subsequent regeneration at low temperature. <i>Applied Catalysis A: General</i> , 2018 , 557, 39-45	5.1	13
43	Oxidative Coupling of Methane over Mn ₂ O ₃ -Na ₂ WO ₄ /SiC Catalysts. <i>Catalysts</i> , 2019 , 9, 363	4	12
42	Formation of defect site on ZIF-7 and its effect on the methoxycarbonylation of aniline with dimethyl carbonate. <i>Journal of Catalysis</i> , 2019 , 380, 297-306	7.3	12
41	Condensation of pentose-derived furan compounds to C ₁₅ fuel precursors using supported phosphotungstic acid catalysts: Strategy for designing heterogeneous acid catalysts based on the acid strength and pore structures. <i>Applied Catalysis A: General</i> , 2019 , 570, 238-244	5.1	12
40	Accessibility in Calix[8]arene-Bound Gold Nanoparticles: Crucial Role of Induced-Fit Binding. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16060-16070	3.8	11
39	Hydrothermal Liquefaction of Concentrated Acid Hydrolysis Lignin in a Bench-Scale Continuous Stirred Tank Reactor. <i>Energy & Fuels</i> , 2019 , 33, 6421-6428	4.1	10
38	Supercritical-phase-assisted highly selective and active catalytic hydrodechlorination of the ozone-depleting refrigerant CHClF ₂ . <i>Chemical Engineering Journal</i> , 2012 , 213, 346-355	14.7	10
37	Role of Anhydride in the Ketonization of Carboxylic Acid: Kinetic Study on Dimerization of Hexanoic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 872-880	3.9	9
36	Effects of sintering-resistance and large metal-support interface of alumina nanorod-stabilized Pt nanoparticle catalysts on the improved high temperature water gas shift reaction activity. <i>Catalysis Communications</i> , 2014 , 56, 11-16	3.2	9
35	Effects of lignin on the ionic-liquid assisted catalytic hydrolysis of cellulose: chemical inhibition by lignin. <i>Cellulose</i> , 2013 , 20, 2349-2358	5.5	9
34	Study on the unsteady state oxidative coupling of methane: effects of oxygen species from O, surface lattice oxygen, and CO on the C selectivity.. <i>RSC Advances</i> , 2020 , 10, 35889-35897	3.7	9

33	Production of aromatic compounds from oil palm empty fruit bunches by hydro- and solvothermolysis. <i>Industrial Crops and Products</i> , 2015 , 76, 104-111	5.9	8
32	Phase Transformation of Adefovir Dipivoxil/Succinic Acid Cocrystals Regulated by Polymeric Additives. <i>Polymers</i> , 2014 , 6, 1-11	4.5	8
31	Acid-treated waste red mud as an efficient catalyst for catalytic fast copyrolysis of lignin and polypropylene and ozone-catalytic conversion of toluene. <i>Environmental Research</i> , 2020 , 191, 110149	7.9	7
30	Highly Dispersed Pt Nanoparticles for the Production of Aromatic Hydrocarbons by the Catalytic Degrading of Alkali Lignin. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4565-9	1.3	7
29	Catalytic Depolymerization of Alkali Lignin Using Supported Pt Nanoparticle Catalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4570-5	1.3	7
28	Continuous-flow production of petroleum-replacing fuels from highly viscous Kraft lignin pyrolysis oil using its hydrocracked oil as a solvent. <i>Energy Conversion and Management</i> , 2020 , 213, 112728	10.6	6
27	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , 2021 , 342, 126067	11	6
26	Improved activity of a CaCO ₃ -supported Ru catalyst for the hydrodeoxygenation of eugenol as a model lignin-derived phenolic compound. <i>Catalysis Communications</i> , 2019 , 127, 45-50	3.2	5
25	The Effect of Tin Support Interaction on Catalytic Stability over Pt ₅ Ni ₁₀ /xAl ₂ O ₃ -15 Catalysts for Propane Dehydrogenation. <i>Catalysis Letters</i> , 2012 , 142, 838-844	2.8	5
24	High-temperature hydrodechlorination of ozone-depleting chlorodifluoromethane (HCFC-22) on supported Pd and Ni catalysts. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011 , 46, 989-96	2.3	5
23	SiO ₂ @MnO ₂ @NaWO ₃ @SiO ₂ core-shell-derived catalyst for oxidative coupling of methane.. <i>RSC Advances</i> , 2020 , 10, 37749-37756	3.7	5
22	The production of lactic acid from chemi-thermomechanical pulps using a chemo-catalytic approach. <i>Bioresource Technology</i> , 2021 , 324, 124664	11	5
21	Upgrading bio-oil model compound over bifunctional Ru/HZSM-5 catalysts in biphasic system: Complete hydrodeoxygenation of vanillin. <i>Journal of Hazardous Materials</i> , 2022 , 423, 126525	12.8	5
20	Diels-Alder cycloaddition of oxidized furans and ethylene over supported heteropolyacid catalysts for renewable terephthalic acid. <i>Catalysis Today</i> , 2020 , 351, 37-43	5.3	4
19	Investigation of the activity and selectivity of supported rhenium catalysts for the hydrodeoxygenation of 2-methoxyphenol. <i>Catalysis Today</i> , 2021 , 375, 164-173	5.3	4
18	Pt black catalyzed methane oxidation to methyl bisulfate in H ₂ SO ₄ -SO ₃ . <i>Journal of Catalysis</i> , 2019 , 374, 230-236	7.3	3
17	Enantiotropic phase transition and twinning in 2,2,3,3,4,4-hexafluoropentane-1,5-diol. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2009 , 65, o388-95		3
16	Bis[(2,2-dimethyl-propano-yloxy)meth-yl] {[2-(6-amino-9H-purin-9-yl)eth-oxy]meth-yl}phospho-nate-succinic acid (2/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o809-10		3

15	A study on active sites of A2BO4 catalysts with perovskite-like structures in oxidative coupling of methane. <i>Molecular Catalysis</i> , 2021 , 506, 111548	3.3	3
14	Bimetallic Ni-Re catalysts for the efficient hydrodeoxygenation of biomass-derived phenols. <i>International Journal of Energy Research</i> , 2021 , 45, 16349-16361	4.5	3
13	Condensation of furans for the production of diesel precursors: A study on the effects of surface acid sites of sulfonated carbon catalysts. <i>Catalysis Today</i> , 2021 , 375, 155-163	5.3	3
12	Stabilization of acid-rich bio-oil by catalytic mild hydrotreating. <i>Environmental Pollution</i> , 2021 , 272, 116180	9.0	3
11	Upgrading of sulfur-containing biogas into high quality fuel via oxidative coupling of methane. <i>International Journal of Energy Research</i> , 2021 , 45, 19363	4.5	2
10	Hybrid catalysts containing Ba, Ti, Mn, Na, and W for the low-temperature oxidative coupling of methane. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120553	21.8	2
9	Selective hydrodeoxygenation of biomass pyrolysis oil and lignin-derived oxygenates to cyclic alcohols using the bimetallic NiFe core-shell supported on TiO ₂ . <i>Chemical Engineering Journal</i> , 2022 , 430, 136578	14.7	2
8	Process analysis for biphasic dehydration of xylose: effects of solvents on the purification of furfural. <i>Biofuels</i> , 2019 , 1-5	2	1
7	Study of Ag ₂ O/TiO ₂ nanowires synthesis and characterization for heterogeneous reduction reaction catalysis of 4-nitrophenol. <i>Nano Structures Nano Objects</i> , 2021 , 26, 100719	5.6	1
6	Catalytic conversion of waste corrugated cardboard into lactic acid using lanthanide triflates. <i>Waste Management</i> , 2022 , 144, 41-48	8.6	1
5	Direct conversion of lignin to high-quality biofuels by carbon dioxide-assisted hydrolysis combined with transfer hydrogenolysis over supported ruthenium catalysts. <i>Energy Conversion and Management</i> , 2022 , 261, 115607	10.6	1
4	One-pot synthesis of 3D-ZIF-7 supported on 2D-ZnBenzimidazoleAcetate and its catalytic activity in the methoxycarbonylation of aniline with dimethyl carbonate. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 99, 380-387	6.3	0
3	Improved catalytic depolymerization of lignin waste using carbohydrate derivatives. <i>Environmental Pollution</i> , 2021 , 268, 115674	9.3	0
2	One-pot selective production of deoxygenated monomeric, dimeric, and trimeric hydrocarbons from xylose-derived 2-methylfuran using multifunctional tungstate-zirconia-supported Ru, Pd, and Ni catalysts. <i>Chemical Engineering Journal</i> , 2022 , 441, 135581	14.7	0
1	Na ₂ WO ₄ /Mn/SiO ₂ Catalyst Pellets for Upgrading H ₂ S-Containing Biogas via the Oxidative Coupling of Methane. <i>Catalysts</i> , 2021 , 11, 1301	4	0