Jungho Jae

List of Publications by Citations

95 papers	5,134 citations	36 h-index	70 g-index
97 ext. papers	6,122 ext. citations	9.3 avg, IF	6.05 L-index

#	Paper	IF	Citations
95	Investigation into the shape selectivity of zeolite catalysts for biomass conversion. *Journal of Catalysis*, **2011**, 279, 257-268	7.3	776
94	Production of green aromatics and olefins by catalytic fast pyrolysis of wood sawdust. *Energy and Environmental Science*, **2011**, 4, 145-161	35.4	427
93	Optimizing the aromatic yield and distribution from catalytic fast pyrolysis of biomass over ZSM-5. *Applied Catalysis A: General*, **2012**, 423-424, 154-161	5.1	302
92	Production of renewable aromatic compounds by catalytic fast pyrolysis of lignocellulosic biomass with bifunctional Ga/ZSM-5 catalysts. *Angewandte Chemie - International Edition*, **2012**, 51, 1387-90	16.4	288
91	Production of dimethylfuran from hydroxymethylfurfural through catalytic transfer hydrogenation with ruthenium supported on carbon. *ChemSusChem*, **2013**, 6, 1158-62	8.3	213
90	Depolymerization of lignocellulosic biomass to fuel precursors: maximizing carbon efficiency by combining hydrolysis with pyrolysis. *Energy and Environmental Science*, **2010**, 3, 358	35.4	142
89	Catalytic fast pyrolysis of lignocellulosic biomass in a process development unit with continual catalyst addition and removal. *Chemical Engineering Science*, **2014**, 108, 33-46	4.4	138
88	The Role of Ru and RuO2 in the Catalytic Transfer Hydrogenation of 5-Hydroxymethylfurfural for the Production of 2,5-Dimethylfuran. *ChemCatChem*, **2014**, 6, 848-856	5.2	111
87	Overview of the recent advances in lignocellulose liquefaction for producing biofuels, bio-based materials and chemicals. *Bioresource Technology*, **2019**, 279, 373-384	11	111
86	Catalytic Hydrodeoxygenation of Bio-oil Model Compounds over Pt/HY Catalyst. *Scientific Reports*, **2016**, 6, 28765	4.9	106
85	Heteropolyacid supported on Zr-Beta zeolite as an active catalyst for one-pot transformation of furfural to γvalerolactone. *Applied Catalysis B: Environmental*, **2019**, 241, 588-597	21.8	94
84	Catalytic Copyrolysis of Cellulose and Thermoplastics over HZSM-5 and HY. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1354-1363	8.3	90
83	Recent advances in catalytic co-pyrolysis of biomass and plastic waste for the production of petroleum-like hydrocarbons. *Bioresource Technology*, **2020**, 310, 123473	11	88
82	Cascade of Liquid-Phase Catalytic Transfer Hydrogenation and Etherification of 5-Hydroxymethylfurfural to Potential Biodiesel Components over Lewis Acid Zeolites. *ChemCatChem*, **2014**, 6, 508-513	5.2	85
81	Catalytic co-pyrolysis of torrefied yellow poplar and high-density polyethylene using microporous HZSM-5 and mesoporous Al-MCM-41 catalysts. *Energy Conversion and Management*, **2017**, 149, 966-973	10.6	84
80	Recent progress in the thermal and catalytic conversion of lignin. *Renewable and Sustainable Energy Reviews*, **2019**, 111, 422-441	16.2	83
79	Production of γvalerolactone from furfural by a single-step process using Sn-Al-Beta zeolites: Optimizing the catalyst acid properties and process conditions. *Journal of Industrial and Engineering Chemistry*, **2016**, 40, 62-71	6.3	83

78	In-situ catalytic pyrolysis of lignin in a bench-scale fixed bed pyrolyzer. *Journal of Industrial and Engineering Chemistry*, **2017**, 54, 447-453	6.3	63
77	Catalytic pyrolysis of lignin using a two-stage fixed bed reactor comprised of in-situ natural zeolite and ex-situ HZSM-5. *Journal of Analytical and Applied Pyrolysis*, **2016**, 122, 282-288	6	59
76	Catalytic transfer hydrogenation/hydrogenolysis of guaiacol to cyclohexane over bimetallic RuRe/C catalysts. *Catalysis Communications*, **2016**, 86, 113-118	3.2	58
75	Global bioenergy potential from high-lignin agricultural residue. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4014-9	11.5	58
74	Effective depolymerization of concentrated acid hydrolysis lignin using a carbon-supported ruthenium catalyst in ethanol/formic acid media. *Bioresource Technology*, **2017**, 234, 424-431	11	54
73	Production of aromatic hydrocarbons via catalytic co-pyrolysis of torrefied cellulose and polypropylene. *Energy Conversion and Management*, **2016**, 129, 81-88	10.6	53
72	Efficient depolymerization of lignin in supercritical ethanol by a combination of metal and base catalysts. *Journal of Industrial and Engineering Chemistry*, **2018**, 57, 45-54	6.3	52
71	Pyrolysis and catalytic upgrading of Citrus unshiu peel. *Bioresource Technology*, **2015**, 194, 312-9	11	50
70	Bench scale catalytic fast pyrolysis of empty fruit bunches over low cost catalysts and HZSM-5 using a fixed bed reactor. *Journal of Cleaner Production*, **2018**, 176, 298-303	10.3	49
69	In-situ and ex-situ catalytic pyrolysis/co-pyrolysis of empty fruit bunches using mesostructured aluminosilicate catalysts. *Chemical Engineering Journal*, **2019**, 366, 330-338	14.7	48
68	Ex-situ catalytic pyrolysis of citrus fruit peels over mesoporous MFI and Al-MCM-41. *Energy Conversion and Management*, **2016**, 125, 277-289	10.6	48
67	Hydro- and solvothermolysis of kraft lignin for maximizing production of monomeric aromatic chemicals. *Bioresource Technology*, **2016**, 203, 142-9	11	46
66	Production of renewable p-xylene from 2,5-dimethylfuran via Diels–Alder cycloaddition and dehydrative aromatization reactions over silica–alumina aerogel catalysts. *Catalysis Communications*, **2015**, 70, 12-16	3.2	45
65	Investigation into the lignin decomposition mechanism by analysis of the pyrolysis product of Pinus radiata. *Bioresource Technology*, **2016**, 219, 371-377	11	45
64	In-situ catalytic copyrolysis of cellulose and polypropylene over desilicated ZSM-5. *Catalysis Today*, **2017**, 293-294, 151-158	5.3	44
63	Effective hydrodeoxygenation of lignin-derived phenols using bimetallic RuRe catalysts: Effect of carbon supports. *Catalysis Today*, **2018**, 303, 191-199	5.3	42
62	Catalytic pyrolysis of lignin for the production of aromatic hydrocarbons: Effect of magnesium oxide catalyst. *Energy*, **2019**, 179, 669-675	7.9	38
61	Mild hydrodeoxygenation of phenolic lignin model compounds over a FeReOx/ZrO2 catalyst: zirconia and rhenium oxide as efficient dehydration promoters. *Green Chemistry*, **2018**, 20, 1472-1483	10	38

60	Oxidative Coupling of Methane Using Mg/Ti-Doped SiO2-Supported Na2WO4/Mn Catalysts. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 3667-3674	8.3	37
59	In-situ catalytic co-pyrolysis of yellow poplar and high-density polyethylene over mesoporous catalysts. *Energy Conversion and Management*, **2017**, 151, 116-122	10.6	35
58	Production of renewable toluene from biomass-derived furans via Diels-Alder and dehydration reactions: A comparative study of Lewis acid catalysts. *Fuel*, **2016**, 182, 588-596	7.1	35
57	Catalytic co-pyrolysis of biomass carbohydrates with LLDPE over Al-SBA-15 and mesoporous ZSM-5. *Catalysis Today*, **2017**, 298, 46-52	5.3	34
56	Catalytic co-pyrolysis of yellow poplar wood and polyethylene terephthalate over two stage calcium oxide-ZSM-5. *Applied Energy*, **2019**, 250, 1706-1718	10.7	32
55	Production of phenolic hydrocarbons using catalytic depolymerization of empty fruit bunch (EFB)-derived organosolv lignin on H□supported Ru. *Chemical Engineering Journal*, **2017**, 309, 187-196	14.7	32
54	Catalytic fast pyrolysis of wood plastic composite over microporous zeolites. *Chemical Engineering Journal*, **2019**, 377, 119742	14.7	31
53	Enhancement of aromatics from catalytic pyrolysis of yellow poplar: Role of hydrogen and methane decomposition. *Bioresource Technology*, **2020**, 315, 123835	11	31
52	Enhanced stability of bio-oil and diesel fuel emulsion using Span 80 and Tween 60 emulsifiers. *Journal of Environmental Management*, **2019**, 231, 694-700	7.9	31
51	Insight into the effect of metal and support for mild hydrodeoxygenation of lignin-derived phenolics to BTX aromatics. *Chemical Engineering Journal*, **2019**, 377, 120121	14.7	31
50	Hydrodeoxygenation of guaiacol on tungstated zirconia supported Ru catalysts. *Applied Catalysis A: General*, **2017**, 543, 10-16	5.1	30
49	Catalytic co-pyrolysis of cellulose and linear low-density polyethylene over MgO-impregnated catalysts with different acid-base properties. *Chemical Engineering Journal*, **2019**, 373, 375-381	14.7	30
48	Co-feeding effect of waste plastic films on the catalytic pyrolysis of Quercus variabilis over microporous HZSM-5 and HY catalysts. *Chemical Engineering Journal*, **2019**, 378, 122151	14.7	30
47	Effects of metal or metal oxide additives on oxidative coupling of methane using Na2WO4/SiO2 catalysts: Reducibility of metal additives to manipulate the catalytic activity. *Applied Catalysis A: General*, **2018**, 562, 114-119	5.1	30
46	Heteropolyacid catalysts for Diels-Alder cycloaddition of 2,5-dimethylfuran and ethylene to renewable p -xylene. *Catalysis Today*, **2017**, 293-294, 167-175	5.3	29
45	Catalytic pyrolysis of wood polymer composites over hierarchical mesoporous zeolites. *Energy Conversion and Management*, **2019**, 195, 727-737	10.6	29
44	Upgrading of sawdust pyrolysis oil to hydrocarbon fuels using tungstate-zirconia-supported Ru catalysts with less formation of cokes. *Journal of Industrial and Engineering Chemistry*, **2017**, 56, 74-81	6.3	28
43	Suppressed char agglomeration by rotary kiln reactor with alumina ball during the pyrolysis of Kraft lignin. *Journal of Industrial and Engineering Chemistry*, **2018**, 66, 72-77	6.3	28

42	Catalytic copyrolysis of torrefied cork oak and high density polyethylene over a mesoporous HY catalyst. *Catalysis Today*, **2018**, 307, 301-307	5.3	27
41	Production of value-added aromatics from wasted COVID-19 mask via catalytic pyrolysis. *Environmental Pollution*, **2021**, 283, 117060	9.3	27
40	Two-step continuous upgrading of sawdust pyrolysis oil to deoxygenated hydrocarbons using hydrotreating and hydrodeoxygenating catalysts. *Catalysis Today*, **2018**, 303, 130-135	5.3	25
39	Catalytic co-pyrolysis of epoxy-printed circuit board and plastics over HZSM-5 and HY. *Journal of Cleaner Production*, **2017**, 168, 366-374	10.3	24
38	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. *Applied Surface Science*, **2020**, 511, 145521	6.7	24
37	Catalytic hydrodeoxygenation of Geodae-Uksae pyrolysis oil over Ni/desilicated HZSM-5. *Journal of Cleaner Production*, **2018**, 174, 763-770	10.3	24
36	One-pot catalytic reaction to produce high-carbon-number dimeric deoxygenated hydrocarbons from lignin-derived monophenyl vanillin using Al2O3-cogelled Ru nanoparticles. *Applied Catalysis A: General*, **2016**, 524, 243-250	5.1	23
35	Continuous pyrolysis of organosolv lignin and application of biochar on gasification of high density polyethylene. *Applied Energy*, **2019**, 255, 113801	10.7	22
34	Pd/C catalyzed transfer hydrogenation of pyrolysis oil using 2-propanol as hydrogen source. *Chemical Engineering Journal*, **2019**, 377, 119986	14.7	20
33	Production of phenolic hydrocarbons from organosolv lignin and lignocellulose feedstocks of hardwood, softwood, grass and agricultural waste. *Journal of Industrial and Engineering Chemistry*, **2019**, 69, 304-314	6.3	20
32	Effect of methane co-feeding on product selectivity of catalytic pyrolysis of biomass. *Catalysis Today*, **2018**, 303, 200-206	5.3	18
31	Pd/C-CaO-catalyzed □alkylation and hydrodeoxygenation of an acetone-butanol-ethanol mixture for biogasoline synthesis. *Chemical Engineering Journal*, **2017**, 313, 1486-1493	14.7	16
30	High-quality and phenolic monomer-rich bio-oil production from lignin in supercritical ethanol over synergistic Ru and Mg-Zr-oxide catalysts. *Chemical Engineering Journal*, **2020**, 396, 125175	14.7	14
29	Production of deoxygenated high carbon number hydrocarbons from furan condensates: Hydrodeoxygenation of biomass-based oxygenates. *Chemical Engineering Journal*, **2019**, 377, 119985	14.7	14
28	Production of bio-oil with reduced polycyclic aromatic hydrocarbons via continuous pyrolysis of biobutanol process derived waste lignin. *Journal of Hazardous Materials*, **2020**, 384, 121231	12.8	14
27	Reversible absorption of SO2 with alkyl-anilines: The effects of alkyl group on aniline and water. *Journal of Industrial and Engineering Chemistry*, **2019**, 69, 338-344	6.3	13
26	Hydrolysis of ionic cellulose to glucose. *Bioresource Technology*, **2014**, 167, 484-9	11	12
25	Condensation of pentose-derived furan compounds to C15 fuel precursors using supported phosphotungstic acid catalysts: Strategy for designing heterogeneous acid catalysts based on the acid strength and pore structures. *Applied Catalysis A: General*, **2019**, 570, 238-244	5.1	12

24	Production of an upgraded lignin-derived bio-oil using the clay catalysts of bentonite and olivine and the spent FCC in a bench-scale fixed bed pyrolyzer. *Environmental Research*, **2019**, 172, 658-664	7.9	11
23	The use of calcined seashell for the prevention of char foaming/agglomeration and the production of high-quality oil during the pyrolysis of lignin. *Renewable Energy*, **2019**, 144, 147-152	8.1	11
22	Hydrothermal Liquefaction of Concentrated Acid Hydrolysis Lignin in a Bench-Scale Continuous Stirred Tank Reactor. *Energy & Fuels*, **2019**, 33, 6421-6428	4.1	10
21	Catalytic copyrolysis of cork oak and bio-oil distillation residue. *Applied Surface Science*, **2018**, 429, 95-106	6.7	8
20	Acetaldehyde removal and increased H/CO gas yield from biomass gasification over metal-loaded Kraft lignin char catalyst. *Journal of Environmental Management*, **2019**, 232, 330-335	7.9	8
19	Catalytic co-conversion of Kraft lignin and linear low-density polyethylene over mesoZSM-5 and Al-SBA-15 catalysts. *Catalysis Today*, **2020**, 355, 246-251	5.3	8
18	Valorization of rice husk to aromatics via thermocatalytic conversion in the presence of decomposed methane. *Chemical Engineering Journal*, **2021**, 417, 129264	14.7	8
17	Enhanced bioaromatics synthesis via catalytic co-pyrolysis of cellulose and spent coffee ground over microporous HZSM-5 and HY. *Environmental Research*, **2020**, 184, 109311	7.9	6
16	Improved activity of a CaCO3-supported Ru catalyst for the hydrodeoxygenation of eugenol as a model lignin-derived phenolic compound. *Catalysis Communications*, **2019**, 127, 45-50	3.2	5
15	Diels-Alder cycloaddition of oxidized furans and ethylene over supported heteropolyacid catalysts for renewable terephthalic acid. *Catalysis Today*, **2020**, 351, 37-43	5.3	4
14	Investigation of the activity and selectivity of supported rhenium catalysts for the hydrodeoxygenation of 2-methoxyphenol. *Catalysis Today*, **2021**, 375, 164-173	5.3	4
13	Catalytic upgrading of Quercus Mongolica under methane environment to obtain high yield of bioaromatics. *Environmental Pollution*, **2021**, 272, 116016	9.3	4
12	Pt black catalyzed methane oxidation to methyl bisulfate in H2SO4-SO3. *Journal of Catalysis*, **2019**, 374, 230-236	7.3	3
11	Emulsification characteristics of ether extracted pyrolysis-oil in diesel using various combinations of emulsifiers (Span 80, Atlox 4916 and Zephrym PD3315) in double reactor system. *Environmental Research*, **2020**, 184, 109267	7.9	3
10	Increased aromatics production by co-feeding waste oil sludge to the catalytic pyrolysis of cellulose. *Energy*, **2022**, 239, 122331	7.9	3
9	Increased CODH activity in a bioelectrochemical system improves microbial electrosynthesis with CO. *Sustainable Energy and Fuels*, **2020**, 4, 5952-5957	5.8	3
8	Bimetallic Ni-Re catalysts for the efficient hydrodeoxygenation of biomass-derived phenols. *International Journal of Energy Research*, **2021**, 45, 16349-16361	4.5	3
7	Effect of the two-stage process comprised of ether extraction and supercritical hydrodeoxygenation on pyrolysis oil upgrading. *Chemical Engineering Journal*, **2021**, 404, 126531	14.7	3

6	Effect of surface properties of TiO on the performance of Pt/TiO catalysts for furfural hydrogenation.. *RSC Advances*, **2021**, 12, 860-868	3.7	2
5	Diels–Alder Cycloaddition of Biomass-Derived 2,5-Dimethylfuran and Ethylene over Sulfated and Phosphated Metal Oxides for Renewable p-Xylene. *Catalysts*, **2021**, 11, 1074	4	1
4	Direct conversion of lignin to high-quality biofuels by carbon dioxide-assisted hydrolysis combined with transfer hydrogenolysis over supported ruthenium catalysts. *Energy Conversion and Management*, **2022**, 261, 115607	10.6	1
3	Valorization of furniture industry-processed residue via catalytic pyrolysis with methane. *Energy Conversion and Management*, **2022**, 261, 115652	10.6	1
2	Enhancement of Bioaromatics Production from Food Waste through Catalytic Pyrolysis over Zn and Mo-loaded HZSM-5 under an Environment of Decomposed Methane. *Chemical Engineering Journal*, **2022**, 137215	14.7	1
1	Catalytic pyrolysis of chicken manure over various catalysts. *Fuel*, **2022**, 322, 124241	7.1	0