

# Jungho Jae

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Increased aromatics production by co-feeding waste oil sludge to the catalytic pyrolysis of cellulose. <i>Energy</i> , <b>2022</b> , 239, 122331	7.9	3
94	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> , <b>2022</b> , 261, 115607	10.6	1
93	Valorization of furniture industry-processed residue via catalytic pyrolysis with methane. <i>Energy Conversion and Management</i> , <b>2022</b> , 261, 115652	10.6	1
92	Catalytic pyrolysis of chicken manure over various catalysts. <i>Fuel</i> , <b>2022</b> , 322, 124241	7.1	0
91	Enhancement of Bioaromatics Production from Food Waste through Catalytic Pyrolysis over Zn and Mo-loaded HZSM-5 under an Environment of Decomposed Methane. <i>Chemical Engineering Journal</i> , <b>2022</b> , 137215	14.7	1
90	Effect of surface properties of TiO on the performance of Pt/TiO catalysts for furfural hydrogenation.. <i>RSC Advances</i> , <b>2021</b> , 12, 860-868	3.7	2
89	Bimetallic Ni-Re catalysts for the efficient hydrodeoxygenation of biomass-derived phenols. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 16349-16361	4.5	3
88	Investigation of the activity and selectivity of supported rhenium catalysts for the hydrodeoxygenation of 2-methoxyphenol. <i>Catalysis Today</i> , <b>2021</b> , 375, 164-173	5.3	4
87	Effect of the two-stage process comprised of ether extraction and supercritical hydrodeoxygenation on pyrolysis oil upgrading. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126531	14.7	3
86	Catalytic upgrading of Quercus Mongolica under methane environment to obtain high yield of bioaromatics. <i>Environmental Pollution</i> , <b>2021</b> , 272, 116016	9.3	4
85	Valorization of rice husk to aromatics via thermocatalytic conversion in the presence of decomposed methane. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129264	14.7	8
84	Production of value-added aromatics from wasted COVID-19 mask via catalytic pyrolysis. <i>Environmental Pollution</i> , <b>2021</b> , 283, 117060	9.3	27
83	Diels-Alder Cycloaddition of Biomass-Derived 2,5-Dimethylfuran and Ethylene over Sulfated and Phosphated Metal Oxides for Renewable p-Xylene. <i>Catalysts</i> , <b>2021</b> , 11, 1074	4	1
82	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> , <b>2020</b> , 396, 125175	14.7	14
81	Recent advances in catalytic co-pyrolysis of biomass and plastic waste for the production of petroleum-like hydrocarbons. <i>Bioresource Technology</i> , <b>2020</b> , 310, 123473	11	88
80	Enhanced bioaromatics synthesis via catalytic co-pyrolysis of cellulose and spent coffee ground over microporous HZSM-5 and HY. <i>Environmental Research</i> , <b>2020</b> , 184, 109311	7.9	6
79	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. <i>Environmental Research</i> , <b>2020</b> , 184, 109267	7.9	3

78	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> , <b>2020</b> , 511, 145521	6.7	24
77	Enhancement of aromatics from catalytic pyrolysis of yellow poplar: Role of hydrogen and methane decomposition. <i>Bioresource Technology</i> , <b>2020</b> , 315, 123835	11	31
76	Increased CODH activity in a bioelectrochemical system improves microbial electrosynthesis with CO. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 5952-5957	5.8	3
75	Catalytic co-conversion of Kraft lignin and linear low-density polyethylene over mesoZSM-5 and Al-SBA-15 catalysts. <i>Catalysis Today</i> , <b>2020</b> , 355, 246-251	5.3	8
74	Diels-Alder cycloaddition of oxidized furans and ethylene over supported heteropolyacid catalysts for renewable terephthalic acid. <i>Catalysis Today</i> , <b>2020</b> , 351, 37-43	5.3	4
73	Production of bio-oil with reduced polycyclic aromatic hydrocarbons via continuous pyrolysis of biobutanol process derived waste lignin. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121231	12.8	14
72	Continuous pyrolysis of organosolv lignin and application of biochar on gasification of high density polyethylene. <i>Applied Energy</i> , <b>2019</b> , 255, 113801	10.7	22
71	Catalytic co-pyrolysis of yellow poplar wood and polyethylene terephthalate over two stage calcium oxide-ZSM-5. <i>Applied Energy</i> , <b>2019</b> , 250, 1706-1718	10.7	32
70	Hydrothermal Liquefaction of Concentrated Acid Hydrolysis Lignin in a Bench-Scale Continuous Stirred Tank Reactor. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 6421-6428	4.1	10
69	Catalytic pyrolysis of wood polymer composites over hierarchical mesoporous zeolites. <i>Energy Conversion and Management</i> , <b>2019</b> , 195, 727-737	10.6	29
68	Recent progress in the thermal and catalytic conversion of lignin. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 111, 422-441	16.2	83
67	Improved activity of a CaCO <sub>3</sub> -supported Ru catalyst for the hydrodeoxygenation of eugenol as a model lignin-derived phenolic compound. <i>Catalysis Communications</i> , <b>2019</b> , 127, 45-50	3.2	5
66	Catalytic co-pyrolysis of cellulose and linear low-density polyethylene over MgO-impregnated catalysts with different acid-base properties. <i>Chemical Engineering Journal</i> , <b>2019</b> , 373, 375-381	14.7	30
65	Catalytic pyrolysis of lignin for the production of aromatic hydrocarbons: Effect of magnesium oxide catalyst. <i>Energy</i> , <b>2019</b> , 179, 669-675	7.9	38
64	Pt black catalyzed methane oxidation to methyl bisulfate in H <sub>2</sub> SO <sub>4</sub> -SO <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2019</b> , 374, 230-236	7.3	3
63	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. <i>Environmental Research</i> , <b>2019</b> , 172, 658-664	7.9	11
62	In-situ and ex-situ catalytic pyrolysis/co-pyrolysis of empty fruit bunches using mesostructured aluminosilicate catalysts. <i>Chemical Engineering Journal</i> , <b>2019</b> , 366, 330-338	14.7	48
61	The use of calcined seashell for the prevention of char foaming/agglomeration and the production of high-quality oil during the pyrolysis of lignin. <i>Renewable Energy</i> , <b>2019</b> , 144, 147-152	8.1	11

60	Catalytic fast pyrolysis of wood plastic composite over microporous zeolites. <i>Chemical Engineering Journal</i> , <b>2019</b> , 377, 119742	14.7	31
59	Co-feeding effect of waste plastic films on the catalytic pyrolysis of <i>Quercus variabilis</i> over microporous HZSM-5 and HY catalysts. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122151	14.7	30
58	Pd/C catalyzed transfer hydrogenation of pyrolysis oil using 2-propanol as hydrogen source. <i>Chemical Engineering Journal</i> , <b>2019</b> , 377, 119986	14.7	20
57	Heteropolyacid supported on Zr-Beta zeolite as an active catalyst for one-pot transformation of furfural to Valerolactone. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 241, 588-597	21.8	94
56	Overview of the recent advances in lignocellulose liquefaction for producing biofuels, bio-based materials and chemicals. <i>Bioresource Technology</i> , <b>2019</b> , 279, 373-384	11	111
55	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. <i>Applied Catalysis A: General</i> , <b>2019</b> , 570, 238-244	5.1	12
54	Enhanced stability of bio-oil and diesel fuel emulsion using Span 80 and Tween 60 emulsifiers. <i>Journal of Environmental Management</i> , <b>2019</b> , 231, 694-700	7.9	31
53	Insight into the effect of metal and support for mild hydrodeoxygenation of lignin-derived phenolics to BTX aromatics. <i>Chemical Engineering Journal</i> , <b>2019</b> , 377, 120121	14.7	31
52	Acetaldehyde removal and increased H/CO gas yield from biomass gasification over metal-loaded Kraft lignin char catalyst. <i>Journal of Environmental Management</i> , <b>2019</b> , 232, 330-335	7.9	8
51	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> , <b>2019</b> , 69, 304-314	6.3	20
50	Production of deoxygenated high carbon number hydrocarbons from furan condensates: Hydrodeoxygenation of biomass-based oxygenates. <i>Chemical Engineering Journal</i> , <b>2019</b> , 377, 119985	14.7	14
49	Reversible absorption of SO <sub>2</sub> with alkyl-anilines: The effects of alkyl group on aniline and water. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 69, 338-344	6.3	13
48	Mild hydrodeoxygenation of phenolic lignin model compounds over a FeReOx/ZrO <sub>2</sub> catalyst: zirconia and rhenium oxide as efficient dehydration promoters. <i>Green Chemistry</i> , <b>2018</b> , 20, 1472-1483	10	38
47	Bench scale catalytic fast pyrolysis of empty fruit bunches over low cost catalysts and HZSM-5 using a fixed bed reactor. <i>Journal of Cleaner Production</i> , <b>2018</b> , 176, 298-303	10.3	49
46	Catalytic copyrolysis of torrefied cork oak and high density polyethylene over a mesoporous HY catalyst. <i>Catalysis Today</i> , <b>2018</b> , 307, 301-307	5.3	27
45	Catalytic copyrolysis of cork oak and bio-oil distillation residue. <i>Applied Surface Science</i> , <b>2018</b> , 429, 95-106.7		8
44	Two-step continuous upgrading of sawdust pyrolysis oil to deoxygenated hydrocarbons using hydrotreating and hydrodeoxygenating catalysts. <i>Catalysis Today</i> , <b>2018</b> , 303, 130-135	5.3	25
43	Effect of methane co-feeding on product selectivity of catalytic pyrolysis of biomass. <i>Catalysis Today</i> , <b>2018</b> , 303, 200-206	5.3	18

42	Suppressed char agglomeration by rotary kiln reactor with alumina ball during the pyrolysis of Kraft lignin. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 66, 72-77	6.3	28
41	Catalytic hydrodeoxygenation of Geodae-Uksae pyrolysis oil over Ni/desilicated HZSM-5. <i>Journal of Cleaner Production</i> , <b>2018</b> , 174, 763-770	10.3	24
40	Effective hydrodeoxygenation of lignin-derived phenols using bimetallic RuRe catalysts: Effect of carbon supports. <i>Catalysis Today</i> , <b>2018</b> , 303, 191-199	5.3	42
39	Efficient depolymerization of lignin in supercritical ethanol by a combination of metal and base catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 57, 45-54	6.3	52
38	Effects of metal or metal oxide additives on oxidative coupling of methane using Na <sub>2</sub> WO <sub>4</sub> /SiO <sub>2</sub> catalysts: Reducibility of metal additives to manipulate the catalytic activity. <i>Applied Catalysis A: General</i> , <b>2018</b> , 562, 114-119	5.1	30
37	In-situ catalytic copyrolysis of cellulose and polypropylene over desilicated ZSM-5. <i>Catalysis Today</i> , <b>2017</b> , 293-294, 151-158	5.3	44
36	Catalytic co-pyrolysis of torrefied yellow poplar and high-density polyethylene using microporous HZSM-5 and mesoporous Al-MCM-41 catalysts. <i>Energy Conversion and Management</i> , <b>2017</b> , 149, 966-973	10.6	84
35	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> , <b>2017</b> , 56, 74-81	6.3	28
34	Hydrodeoxygenation of guaiacol on tungstated zirconia supported Ru catalysts. <i>Applied Catalysis A: General</i> , <b>2017</b> , 543, 10-16	5.1	30
33	Effective depolymerization of concentrated acid hydrolysis lignin using a carbon-supported ruthenium catalyst in ethanol/formic acid media. <i>Bioresource Technology</i> , <b>2017</b> , 234, 424-431	11	54
32	Oxidative Coupling of Methane Using Mg/Ti-Doped SiO <sub>2</sub> -Supported Na <sub>2</sub> WO <sub>4</sub> /Mn Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 3667-3674	8.3	37
31	Heteropolyacid catalysts for Diels-Alder cycloaddition of 2,5-dimethylfuran and ethylene to renewable p-xylene. <i>Catalysis Today</i> , <b>2017</b> , 293-294, 167-175	5.3	29
30	In-situ catalytic co-pyrolysis of yellow poplar and high-density polyethylene over mesoporous catalysts. <i>Energy Conversion and Management</i> , <b>2017</b> , 151, 116-122	10.6	35
29	Catalytic co-pyrolysis of epoxy-printed circuit board and plastics over HZSM-5 and HY. <i>Journal of Cleaner Production</i> , <b>2017</b> , 168, 366-374	10.3	24
28	Catalytic co-pyrolysis of biomass carbohydrates with LLDPE over Al-SBA-15 and mesoporous ZSM-5. <i>Catalysis Today</i> , <b>2017</b> , 298, 46-52	5.3	34
27	In-situ catalytic pyrolysis of lignin in a bench-scale fixed bed pyrolyzer. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 54, 447-453	6.3	63
26	Pd/C-CaO-catalyzed alkylation and hydrodeoxygenation of an acetone-butanol-ethanol mixture for biogasoline synthesis. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 1486-1493	14.7	16
25	Production of phenolic hydrocarbons using catalytic depolymerization of empty fruit bunch (EFB)-derived organosolv lignin on H <sub>2</sub> -supported Ru. <i>Chemical Engineering Journal</i> , <b>2017</b> , 309, 187-196	14.7	32

24	Catalytic transfer hydrogenation/hydrogenolysis of guaiacol to cyclohexane over bimetallic RuRe/C catalysts. <i>Catalysis Communications</i> , <b>2016</b> , 86, 113-118	3.2	58
23	Production of Valerolactone from furfural by a single-step process using Sn-Al-Beta zeolites: Optimizing the catalyst acid properties and process conditions. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 40, 62-71	6.3	83
22	Catalytic Hydrodeoxygenation of Bio-oil Model Compounds over Pt/HY Catalyst. <i>Scientific Reports</i> , <b>2016</b> , 6, 28765	4.9	106
21	Production of aromatic hydrocarbons via catalytic co-pyrolysis of torrefied cellulose and polypropylene. <i>Energy Conversion and Management</i> , <b>2016</b> , 129, 81-88	10.6	53
20	Production of renewable toluene from biomass-derived furans via Diels-Alder and dehydration reactions: A comparative study of Lewis acid catalysts. <i>Fuel</i> , <b>2016</b> , 182, 588-596	7.1	35
19	Catalytic Copyrolysis of Cellulose and Thermoplastics over HZSM-5 and HY. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1354-1363	8.3	90
18	Ex-situ catalytic pyrolysis of citrus fruit peels over mesoporous MFI and Al-MCM-41. <i>Energy Conversion and Management</i> , <b>2016</b> , 125, 277-289	10.6	48
17	Hydro- and solvothermalysis of kraft lignin for maximizing production of monomeric aromatic chemicals. <i>Bioresource Technology</i> , <b>2016</b> , 203, 142-9	11	46
16	Investigation into the lignin decomposition mechanism by analysis of the pyrolysis product of Pinus radiata. <i>Bioresource Technology</i> , <b>2016</b> , 219, 371-377	11	45
15	Catalytic pyrolysis of lignin using a two-stage fixed bed reactor comprised of in-situ natural zeolite and ex-situ HZSM-5. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 122, 282-288	6	59
14	One-pot catalytic reaction to produce high-carbon-number dimeric deoxygenated hydrocarbons from lignin-derived monophenyl vanillin using Al <sub>2</sub> O <sub>3</sub> -cogelled Ru nanoparticles. <i>Applied Catalysis A: General</i> , <b>2016</b> , 524, 243-250	5.1	23
13	Pyrolysis and catalytic upgrading of Citrus unshiu peel. <i>Bioresource Technology</i> , <b>2015</b> , 194, 312-9	11	50
12	Production of renewable p-xylene from 2,5-dimethylfuran via Diels-Alder cycloaddition and dehydrative aromatization reactions over silica/alumina aerogel catalysts. <i>Catalysis Communications</i> , <b>2015</b> , 70, 12-16	3.2	45
11	Cascade of Liquid-Phase Catalytic Transfer Hydrogenation and Etherification of 5-Hydroxymethylfurfural to Potential Biodiesel Components over Lewis Acid Zeolites. <i>ChemCatChem</i> , <b>2014</b> , 6, 508-513	5.2	85
10	Catalytic fast pyrolysis of lignocellulosic biomass in a process development unit with continual catalyst addition and removal. <i>Chemical Engineering Science</i> , <b>2014</b> , 108, 33-46	4.4	138
9	Hydrolysis of ionic cellulose to glucose. <i>Bioresource Technology</i> , <b>2014</b> , 167, 484-9	11	12
8	The Role of Ru and RuO <sub>2</sub> in the Catalytic Transfer Hydrogenation of 5-Hydroxymethylfurfural for the Production of 2,5-Dimethylfuran. <i>ChemCatChem</i> , <b>2014</b> , 6, 848-856	5.2	111
7	Production of dimethylfuran from hydroxymethylfurfural through catalytic transfer hydrogenation with ruthenium supported on carbon. <i>ChemSusChem</i> , <b>2013</b> , 6, 1158-62	8.3	213

6	Production of renewable aromatic compounds by catalytic fast pyrolysis of lignocellulosic biomass with bifunctional Ga/ZSM-5 catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1387-90	16.4	288
5	Optimizing the aromatic yield and distribution from catalytic fast pyrolysis of biomass over ZSM-5. <i>Applied Catalysis A: General</i> , <b>2012</b> , 423-424, 154-161	5.1	302
4	Global bioenergy potential from high-lignin agricultural residue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 4014-9	11.5	58
3	Production of green aromatics and olefins by catalytic fast pyrolysis of wood sawdust. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 145-161	35.4	427
2	Investigation into the shape selectivity of zeolite catalysts for biomass conversion. <i>Journal of Catalysis</i> , <b>2011</b> , 279, 257-268	7.3	776
1	Depolymerization of lignocellulosic biomass to fuel precursors: maximizing carbon efficiency by combining hydrolysis with pyrolysis. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 358	35.4	142