

Kwang Ho Kim

List of Publications by Year in descending order

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46
papers

2,234
citations

304368

22
h-index

243296

44
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all docs

46
docs citations

46
times ranked

2571
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic pyrolysis of individual components of lignocellulosic biomass. <i>Green Chemistry</i> , 2014, 16, 727-735.	4.6	429
2	Biomass pretreatment using deep eutectic solvents from lignin derived phenols. <i>Green Chemistry</i> , 2018, 20, 809-815.	4.6	235
3	Formation of phenolic oligomers during fast pyrolysis of lignin. <i>Fuel</i> , 2014, 128, 170-179.	3.4	199
4	Pyrolytic Sugars from Cellulosic Biomass. <i>ChemSusChem</i> , 2012, 5, 2228-2236.	3.6	155
5	Lignin to Materials: A Focused Review on Recent Novel Lignin Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4626.	1.3	112
6	Investigation of a Lignin-Based Deep Eutectic Solvent Using <i>p</i> -Hydroxybenzoic Acid for Efficient Woody Biomass Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12542-12553.	3.2	83
7	Integration of renewable deep eutectic solvents with engineered biomass to achieve a closed-loop biorefinery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13816-13824.	3.3	68
8	Hydrogen-Donor-Assisted Solvent Liquefaction of Lignin to Short-Chain Alkylphenols Using a Micro Reactor/Gas Chromatography System. <i>Energy & Fuels</i> , 2014, 28, 6429-6437.	2.5	67
9	The influence of alkali and alkaline earth metals on char and volatile aromatics from fast pyrolysis of lignin. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 127, 385-393.	2.6	63
10	Recent Efforts to Prevent Undesirable Reactions From Fractionation to Depolymerization of Lignin: Toward Maximizing the Value From Lignin. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	63
11	Biocompatible Choline-Based Deep Eutectic Solvents Enable One-Pot Production of Cellulosic Ethanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8914-8919.	3.2	63
12	Pyrolysis mechanisms of methoxy substituted β -O-4 lignin dimeric model compounds and detection of free radicals using electron paramagnetic resonance analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 110, 254-263.	2.6	61
13	Rapid room temperature solubilization and depolymerization of polymeric lignin at high loadings. <i>Green Chemistry</i> , 2016, 18, 6012-6020.	4.6	60
14	Quantitative Investigation of Free Radicals in Bio-Oil and their Potential Role in Condensed-Phase Polymerization. <i>ChemSusChem</i> , 2015, 8, 894-900.	3.6	56
15	Chemoselective Methylation of Phenolic Hydroxyl Group Prevents Quinone Methide Formation and Repolymerization During Lignin Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3913-3919.	3.2	55
16	Impact of lignin polymer backbone esters on ionic liquid pretreatment of poplar. <i>Biotechnology for Biofuels</i> , 2017, 10, 101.	6.2	48
17	Partial oxidative pyrolysis of acid infused red oak using a fluidized bed reactor to produce sugar rich bio-oil. <i>Fuel</i> , 2014, 130, 135-141.	3.4	33
18	Kinetic understanding of the effect of Na and Mg on pyrolytic behavior of lignin using a distributed activation energy model and density functional theory modeling. <i>Green Chemistry</i> , 2019, 21, 1099-1107.	4.6	33

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19	Catalytic Effect of Alkali and Alkaline Earth Metals in Lignin Pyrolysis: A Density Functional Theory Study. <i>Energy & Fuels</i> , 2020, 34, 9734-9740.	2.5	32
20	Sustainable biorefinery processes using renewable deep eutectic solvents. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 27, 100396.	3.2	28
21	Tandem conversion of lignin to catechols via demethylation and catalytic hydrogenolysis. <i>Industrial Crops and Products</i> , 2021, 159, 113095.	2.5	27
22	Understanding the Effects of Ethylene Glycol-Assisted Biomass Fractionation Parameters on Lignin Characteristics Using a Full Factorial Design and Computational Modeling. <i>ACS Omega</i> , 2019, 4, 16103-16110.	1.6	25
23	Alkaline sulfonation and thermomechanical pulping pretreatment of softwood chips and pellets to enhance enzymatic hydrolysis. <i>Bioresource Technology</i> , 2020, 315, 123789.	4.8	23
24	Effect of Alkyl Chain Length of Ionic Surfactants on Selective Removal of Asphaltene from Oil Sand Bitumen. <i>Energy & Fuels</i> , 2018, 32, 9304-9313.	2.5	20
25	Cascade Production of Lactic Acid from Universal Types of Sugars Catalyzed by Lanthanum Triflate. <i>ChemSusChem</i> , 2018, 11, 598-604.	3.6	18
26	Evaluating Protic Ionic Liquid for Woody Biomass One-Pot Pretreatment + Saccharification, Followed by <i>Rhodospiridium toruloides</i> Cultivation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 782-791.	3.2	18
27	Improved hydrodeoxygenation of lignin-derived oxygenates and biomass pyrolysis oil into hydrocarbon fuels using titania-supported nickel phosphide catalysts. <i>Energy Conversion and Management</i> , 2022, 266, 115822.	4.4	18
28	Enhancing Enzyme-Mediated Hydrolysis of Mechanical Pulps by Deacetylation and Delignification. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5847-5855.	3.2	13
29	Integrated Process for the Production of Lactic Acid from Lignocellulosic Biomass: From Biomass Fractionation and Characterization to Chemocatalytic Conversion with Lanthanum(III) Triflate. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10832-10839.	1.8	13
30	The production of lactic acid from chemo-thermomechanical pulps using a chemo-catalytic approach. <i>Bioresource Technology</i> , 2021, 324, 124664.	4.8	12
31	Stabilization of acid-rich bio-oil by catalytic mild hydrotreating. <i>Environmental Pollution</i> , 2021, 272, 116180.	3.7	11
32	Pyrolysis kinetics and product distribution of β -D-glucopyranosyl cellulose: Effect of potassium and calcium impregnation. <i>Renewable Energy</i> , 2022, 181, 329-340.	4.3	11
33	Microwave-assisted phenolation of acid-insoluble Klason lignin and its application in adhesion. <i>Green Chemistry</i> , 2022, 24, 2051-2061.	4.6	11
34	Ferric chloride aided peracetic acid pretreatment for effective utilization of sugarcane bagasse. <i>Fuel</i> , 2022, 319, 123739.	3.4	10
35	Engineered Sorghum Bagasse Enables a Sustainable Biorefinery with <i>p</i> -Hydroxybenzoic Acid-Based Deep Eutectic Solvent. <i>ChemSusChem</i> , 2021, 14, 5235-5244.	3.6	9
36	Deep Eutectic Solvent Pretreatment of Transgenic Biomass With Increased C6C1 Lignin Monomers. <i>Frontiers in Plant Science</i> , 2019, 10, 1774.	1.7	8

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37	Enhancing Enzyme-Mediated Cellulose Hydrolysis by Incorporating Acid Groups Onto the Lignin During Biomass Pretreatment. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 608835.	2.0	8
38	Challenges and Perspective of Recent Biomass Pretreatment Solvents. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	8
39	Catalytic conversion of waste corrugated cardboard into lactic acid using lanthanide triflates. <i>Waste Management</i> , 2022, 144, 41-48.	3.7	7
40	Parahydrogen-induced polarization in the hydrogenation of lignin-derived phenols using Wilkinson's catalyst. <i>Fuel</i> , 2019, 255, 115845.	3.4	6
41	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.	6.6	5
42	The use of steam pretreatment to enhance pellet durability and the enzyme-mediated hydrolysis of pellets to fermentable sugars. <i>Bioresource Technology</i> , 2022, 347, 126731.	4.8	4
43	Characteristics of Rapid Pyrolysis for Upgrading Heavy Oils in a Circulating Fluidized Bed Reactor. <i>Energy & Fuels</i> , 2017, 31, 5959-5968.	2.5	3
44	Influence of hydrocracking and ionic liquid pretreatments on composition and properties of <i>Arabidopsis thaliana</i> wild type and CAD mutant lignins. <i>Renewable Energy</i> , 2020, 152, 1241-1249.	4.3	3
45	Tailoring Lignin Structure to Maximize the Value from Lignin. <i>ACS Symposium Series</i> , 2021, , 13-36.	0.5	0
46	Editorial on Special Issue "Biorefinery: Current Status, Challenges, and New Strategies". <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4674.	1.3	0