

Chang Geun Yoo

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

105
papers

2,997
citations

30
h-index

51
g-index

110
ext. papers

4,149
ext. citations

7
avg. IF

6
L-index

#	Paper	IF	Citations
105	Rapid and efficient microwave-assisted guanidine hydrochloride deep eutectic solvent pretreatment for biological conversion of castor stalk. <i>Bioresource Technology</i> , 2022 , 343, 126022	11	1
104	Opportunities and challenges for flow-through hydrothermal pretreatment in advanced biorefineries. <i>Bioresource Technology</i> , 2022 , 343, 126061	11	4
103	Nanoscale FTIR and Mechanical Mapping of Plant Cell Walls for Understanding Biomass Deconstruction. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3016-3026	8.3	2
102	A combination of deep eutectic solvent and ethanol pretreatment for synergistic delignification and enhanced enzymatic hydrolysis for biorefinary process.. <i>Bioresource Technology</i> , 2022 , 350, 126885	11	1
101	Catalytic conversion of waste corrugated cardboard into lactic acid using lanthanide triflates.. <i>Waste Management</i> , 2022 , 144, 41-48	8.6	1
100	Ferric chloride aided peracetic acid pretreatment for effective utilization of sugarcane bagasse. <i>Fuel</i> , 2022 , 319, 123739	7.1	0
99	Ru(II) Polypyridyl-Modified TiO ₂ Nanoparticles for Photocatalytic C _α /C _β Bond Cleavage at Room Temperature. <i>ACS Applied Nano Materials</i> , 2022 , 5, 948-956	5.6	0
98	Effective biomass fractionation and lignin stabilization using a diol DES system. <i>Chemical Engineering Journal</i> , 2022 , 136395	14.7	1
97	A review on physico-chemical delignification as a pretreatment of lignocellulosic biomass for enhanced bioconversion.. <i>Bioresource Technology</i> , 2021 , 346, 126591	11	2
96	Challenges and Perspective of Recent Biomass Pretreatment Solvents. <i>Frontiers in Chemical Engineering</i> , 2021 , 3,	1	3
95	Photocatalytic Chemoselective C _α Bond Cleavage at Room Temperature in Dye-Sensitized Photoelectrochemical Cells. <i>ACS Catalysis</i> , 2021 , 11, 3771-3781	13.1	5
94	Fractionation of Poplar Wood Using a Bifunctional Aromatic Acid under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5364-5376	8.3	4
93	Innovative production of lignin nanoparticles using deep eutectic solvents for multifunctional nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 781-789	7.9	11
92	Conversion and removal strategies for microplastics in wastewater treatment plants and landfills. <i>Chemical Engineering Journal</i> , 2021 , 406, 126715	14.7	53
91	The physiochemical alteration of flax fibers structuring components after different scouring and bleaching treatments. <i>Industrial Crops and Products</i> , 2021 , 160, 113112	5.9	1
90	Tandem conversion of lignin to catechols via demethylation and catalytic hydrogenolysis. <i>Industrial Crops and Products</i> , 2021 , 159, 113095	5.9	9
89	A mechanistic study of cellulase adsorption onto lignin. <i>Green Chemistry</i> , 2021 , 23, 333-339	10	19

88	Recent Advances in Synthesis and Application of Lignin Nanoparticles. <i>ACS Symposium Series</i> , 2021 , 273-293	293	3
87	Recent Advancements in Biological Conversion of Industrial Hemp for Biofuel and Value-Added Products. <i>Fermentation</i> , 2021 , 7, 6	4-7	12
86	Effect of lignin-blocking agent on enzyme hydrolysis of acid pretreated hemp waste.. <i>RSC Advances</i> , 2021 , 11, 22025-22033	3-7	3
85	Sustainable biorefinery processes using renewable deep eutectic solvents. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 27, 100396	7-9	20
84	Engineered Sorghum Bagasse Enables a Sustainable Biorefinery with p-Hydroxybenzoic Acid-Based Deep Eutectic Solvent. <i>ChemSusChem</i> , 2021 , 14, 5235-5244	8-3	2
83	Critical review of FDM 3D printing of PLA biocomposites filled with biomass resources, characterization, biodegradability, upcycling and opportunities for biorefineries. <i>Applied Materials Today</i> , 2021 , 24, 101078	6-6	20
82	Opportunities and Challenges of Lignin Utilization. <i>ACS Symposium Series</i> , 2021 , 1-12	0-4	2
81	The effect of switchgrass plant cell wall properties on its deconstruction by thermochemical pretreatments coupled with fungal enzymatic hydrolysis or <i>Clostridium thermocellum</i> consolidated bioprocessing. <i>Green Chemistry</i> , 2020 , 22, 7924-7945	10	7
80	Increasing the Carbohydrate Output of Bamboo Using a Combinatorial Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7380-7393	8-3	20
79	Transgenic Poplar Designed for Biofuels. <i>Trends in Plant Science</i> , 2020 , 25, 881-896	13-1	17
78	3D printing of biomass-derived composites: application and characterization approaches.. <i>RSC Advances</i> , 2020 , 10, 21698-21723	3-7	30
77	2D HSQC Chemical Shifts of Impurities from Biomass Pretreatment. <i>ChemistrySelect</i> , 2020 , 5, 3359-3364	1-8	1
76	Observation of Potential Contaminants in Processed Biomass Using Fourier Transform Infrared Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4345	2-6	92
75	Effects of the advanced organosolv pretreatment strategies on structural properties of woody biomass. <i>Industrial Crops and Products</i> , 2020 , 146, 112144	5-9	57
74	NaOH-Aided Sulfolane Pretreatment for Effective Fractionation and Utilization of Willow (<i>Salix matsudana</i> cv. Zhuliu). <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17546-17553	3-9	8
73	Measuring Biomass-Derived Products in Biological Conversion and Metabolic Process. <i>Methods in Molecular Biology</i> , 2020 , 2096, 113-124	1-4	
72	Pretreatment of willow using the alkaline-catalyzed sulfolane/water solution for high-purity and antioxidative lignin production. <i>International Journal of Biological Macromolecules</i> , 2020 , 159, 287-294	7-9	16
71	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	3-9	8

70	The critical role of lignin in lignocellulosic biomass conversion and recent pretreatment strategies: A comprehensive review. <i>Bioresource Technology</i> , 2020 , 301, 122784	11	209
69	Solar-Driven Lignin Oxidation via Hydrogen Atom Transfer with a Dye-Sensitized TiO ₂ Photoanode. <i>ACS Energy Letters</i> , 2020 , 5, 777-784	20.1	20
68	The fractionation of woody biomass under mild conditions using bifunctional phenol-4-sulfonic acid as a catalyst and lignin solvent. <i>Green Chemistry</i> , 2020 , 22, 5414-5422	10	12
67	Recent advancements of plant-based natural fiber-reinforced composites and their applications. <i>Composites Part B: Engineering</i> , 2020 , 200, 108254	10	114
66	Investigation of a Lignin-Based Deep Eutectic Solvent Using p-Hydroxybenzoic Acid for Efficient Woody Biomass Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12542-12553	8.3	37
65	Catalytic Effect of Alkali and Alkaline Earth Metals in Lignin Pyrolysis: A Density Functional Theory Study. <i>Energy & Fuels</i> , 2020 , 34, 9734-9740	4.1	14
64	Correlations of the physicochemical properties of organosolv lignins from <i>Broussonetia papyrifera</i> with their antioxidant activities. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5114-5119	5.8	8
63	Structural changes of lignins in natural <i>Populus</i> variants during different pretreatments. <i>Bioresource Technology</i> , 2020 , 295, 122240	11	28
62	Measurement of Physicochemical Properties of Lignin. <i>ACS Symposium Series</i> , 2019 , 33-47	0.4	3
61	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	3.9	14
60	Overexpression of a serine hydroxymethyltransferase increases biomass production and reduces recalcitrance in the bioenergy crop <i>Populus</i> . <i>Sustainable Energy and Fuels</i> , 2019 , 3, 195-207	5.8	18
59	Downregulation of pectin biosynthesis gene leads to reduced ferulate and lignin-carbohydrate cross-linking in switchgrass. <i>Communications Biology</i> , 2019 , 2, 22	6.7	22
58	Cooperative valorization of lignin and residual sugar to polyhydroxyalkanoate (PHA) for enhanced yield and carbon utilization in biorefineries. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2024-2037	5.8	38
57	Cellulolytic enzyme-aided extraction of hemicellulose from switchgrass and its characteristics. <i>Green Chemistry</i> , 2019 , 21, 3902-3910	10	16
56	Combining loss of function of and --- for lignin reduction and improved saccharification efficiency in. <i>Biotechnology for Biofuels</i> , 2019 , 12, 108	7.8	11
55	Cellulose hydrolysis by <i>Clostridium thermocellum</i> is agnostic to substrate structural properties in contrast to fungal cellulases. <i>Green Chemistry</i> , 2019 , 21, 2810-2822	10	8
54	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	11.5	47
53	Deep Eutectic Solvent Pretreatment of Transgenic Biomass With Increased CC Lignin Monomers. <i>Frontiers in Plant Science</i> , 2019 , 10, 1774	6.2	3

52	PdWND3A, a wood-associated NAC domain-containing protein, affects lignin biosynthesis and composition in Populus. <i>BMC Plant Biology</i> , 2019 , 19, 486	5.3	14
51	Sugar release and growth of biofuel crops are improved by downregulation of pectin biosynthesis. <i>Nature Biotechnology</i> , 2018 , 36, 249-257	44.5	93
50	Characteristics of Lignin Fractions from Dilute Acid Pretreated Switchgrass and Their Effect on Cellobiohydrolase from <i>Trichoderma longibrachiatum</i> . <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	23
49	A structured understanding of cellobiohydrolase I binding to poplar lignin fractions after dilute acid pretreatment. <i>Biotechnology for Biofuels</i> , 2018 , 11, 96	7.8	18
48	An uncondensed lignin depolymerized in the solid state and isolated from lignocellulosic biomass: a mechanistic study. <i>Green Chemistry</i> , 2018 , 20, 4224-4235	10	85
47	³¹ P NMR Chemical Shifts of Solvents and Products Impurities in Biomass Pretreatments. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1265-1270	8.3	23
46	Significance of Lignin S/G Ratio in Biomass Recalcitrance of Populus trichocarpa Variants for Bioethanol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2162-2168	8.3	56
45	Alkaline oxidative cracking for effective depolymerization of biorefining lignin to mono-aromatic compounds and organic acids with molecular oxygen. <i>Biomass and Bioenergy</i> , 2018 , 108, 7-14	5.3	32
44	Insights of Ethanol Organosolv Pretreatment on Lignin Properties of <i>Broussonetia papyrifera</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14767-14773	8.3	30
43	Topochemical Understanding of Lignin Distribution During Hydrothermal Flowthrough Pretreatment. <i>ChemistrySelect</i> , 2018 , 3, 9348-9352	1.8	10
42	Understanding the influences of different pretreatments on recalcitrance of Populus natural variants. <i>Bioresource Technology</i> , 2018 , 265, 75-81	11	16
41	Overexpression of a Domain of Unknown Function 266-containing protein results in high cellulose content, reduced recalcitrance, and enhanced plant growth in the bioenergy crop. <i>Biotechnology for Biofuels</i> , 2017 , 10, 74	7.8	14
40	Understanding the Changes to Biomass Surface Characteristics after Ammonia and Organosolv Pretreatments by Using Time-of-Flight Secondary-Ion Mass Spectrometry (TOF-SIMS). <i>ChemPlusChem</i> , 2017 , 82, 686-690	2.8	8
39	Effects of organosolv and ammonia pretreatments on lignin properties and its inhibition for enzymatic hydrolysis. <i>Green Chemistry</i> , 2017 , 19, 2006-2016	10	111
38	Ionic liquids: Promising green solvents for lignocellulosic biomass utilization. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017 , 5, 5-11	7.9	181
37	Effective conversion of biomass into bromomethylfurfural, furfural, and depolymerized lignin in lithium bromide molten salt hydrate of a biphasic system. <i>RSC Advances</i> , 2017 , 7, 300-308	3.7	44
36	Insights of biomass recalcitrance in natural Populus trichocarpa variants for biomass conversion. <i>Green Chemistry</i> , 2017 , 19, 5467-5478	10	51
35	Defined tetra-allelic gene disruption of the 4-coumarate:coenzyme A ligase 1 (Pv4CL1) gene by CRISPR/Cas9 in switchgrass results in lignin reduction and improved sugar release. <i>Biotechnology for Biofuels</i> , 2017 , 10, 284	7.8	53

34	Synergistic maximization of the carbohydrate output and lignin processability by combinatorial pretreatment. <i>Green Chemistry</i> , 2017 , 19, 4939-4955	10	76
33	Elucidating the Structural Changes to Populus Lignin during Consolidated Bioprocessing with <i>Clostridium thermocellum</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7486-7491	8.3	20
32	Effect of in Vivo Deuteration on Structure of Switchgrass Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8004-8010	8.3	7
31	Isomerization of glucose to fructose catalyzed by lithium bromide in water. <i>Green Chemistry</i> , 2017 , 19, 4402-4411	10	29
30	Adsorption of cellobiohydrolases I onto lignin fractions from dilute acid pretreated <i>Broussonetia papyrifera</i> . <i>Bioresource Technology</i> , 2017 , 244, 957-962	11	21
29	Lignin Exhibits Recalcitrance-Associated Features Following the Consolidated Bioprocessing of <i>Populus trichocarpa</i> Natural Variants. <i>ChemistrySelect</i> , 2017 , 2, 10642-10647	1.8	3
28	Study of traits and recalcitrance reduction of field-grown down-regulated switchgrass. <i>Biotechnology for Biofuels</i> , 2017 , 10, 12	7.8	18
27	An In-Depth Understanding of Biomass Recalcitrance Using Natural Poplar Variants as the Feedstock. <i>ChemSusChem</i> , 2017 , 10, 139-150	8.3	79
26	Comparative evaluation of variants total sugar release and structural features following pretreatment and digestion by two distinct biological systems. <i>Biotechnology for Biofuels</i> , 2017 , 10, 292	7.8	17
25	Overexpression of a Domain of Unknown Function 231-containing protein increases O-xylan acetylation and cellulose biosynthesis in. <i>Biotechnology for Biofuels</i> , 2017 , 10, 311	7.8	15
24	Understanding the Physicochemical Characteristics and the Improved Enzymatic Saccharification of Corn Stover Pretreated with Aqueous and Gaseous Ammonia. <i>Bioenergy Research</i> , 2016 , 9, 67-76	3.1	41
23	Review of NMR Characterization of Pyrolysis Oils. <i>Energy & Fuels</i> , 2016 , 30, 6863-6880	4.1	67
22	Elucidating Structural Characteristics of Biomass using Solution-State 2 D NMR with a Mixture of Deuterated Dimethylsulfoxide and Hexamethylphosphoramide. <i>ChemSusChem</i> , 2016 , 9, 1090-5	8.3	48
21	Production of fermentable sugars from corn fiber using soaking in aqueous ammonia (SAA) pretreatment and fermentation to succinic acid using <i>Escherichia coli</i> AFP184. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2863-2868	2.8	7
20	The occurrence of triclin and its derivatives in plants. <i>Green Chemistry</i> , 2016 , 18, 1439-1454	10	58
19	Consolidated bioprocessing of <i>Populus</i> using <i>Clostridium</i> (<i>Ruminiclostridium</i>) <i>thermocellum</i> : a case study on the impact of lignin composition and structure. <i>Biotechnology for Biofuels</i> , 2016 , 9, 31	7.8	44
18	Fuel Ethanol from Lignocellulosic Biomass 2015 , 1-20		1
17	Cellulose-Hemicellulose and Cellulose-Lignin Interactions during Fast Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 293-301	8.3	182

16	Biomimetic Fenton-catalyzed lignin depolymerization to high-value aromatics and dicarboxylic acids. <i>ChemSusChem</i> , 2015 , 8, 861-71	8.3	75
15	Effect of low-moisture anhydrous ammonia (LMAA) pretreatment on biomass quality and enzymatic hydrolysis for long-term storage. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 174, 2639-51	3.2	10
14	Raman Spectroscopic Characterization of Photonanocatalyst Aided Alkaline Pretreated Corn Stover Biomass. <i>Advanced Materials Research</i> , 2014 , 875-877, 1576-1580	0.5	1
13	Silicon Carbide Whisker-Reinforced Ceramic Tape for High-Power Components. <i>International Journal of Applied Ceramic Technology</i> , 2014 , 11, 240-245	2	3
12	Enzymatic fractionation of SAA-pretreated barley straw for production of fuel ethanol and astaxanthin as a value-added co-product. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 171, 341-51	3.2	35
11	Maximum production of fermentable sugars from barley straw using optimized soaking in aqueous ammonia (SAA) pretreatment. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 169, 2430-41	3.2	19
10	Enhancement of enzymatic hydrolysis and Klason lignin removal of corn stover using photocatalyst-assisted ammonia pretreatment. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 169, 1648-58	3.3	9
9	Front-end recovery of protein from lignocellulosic biomass and its effects on chemical pretreatment and enzymatic saccharification. <i>Bioprocess and Biosystems Engineering</i> , 2013 , 36, 687-94	3.7	9
8	Ethanol and furfural production from corn stover using a hybrid fractionation process with zinc chloride and simultaneous saccharification and fermentation (SSF). <i>Process Biochemistry</i> , 2012 , 47, 319-326	4.8	22
7	Optimization of two-stage fractionation process for lignocellulosic biomass using response surface methodology (RSM). <i>Biomass and Bioenergy</i> , 2011 , 35, 4901-4909	5.3	24
6	Pretreatment of corn stover using low-moisture anhydrous ammonia (LMAA) process. <i>Bioresource Technology</i> , 2011 , 102, 10028-34	11	80
5	Two-stage fractionation of corn stover using aqueous ammonia and hot water. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 164, 729-40	3.2	14
4	Effect of Mobile Phase Composition on Henry's Constants of 2-Amino-3-phenyl-propanoic Acid, 2-Amino-3-(3-indolyl)-propanoic Acid, and 2-Amino-3-(4-hydroxyphenyl)-propanoic Acid in a Capcell Pak C18 Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2613-2621	2.8	16
3	Reversal of Elution Sequence and Selectivity Resulting from the Use of an Ionic Liquid as a Mobile Phase Modifier. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2008 , 31, 1104-1122	1.3	4
2	Comparative Analysis of Single-Cascade Five-Zone and Two-Zone SMB Systems for the Separation of a Ternary Amino Acid Mixture. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 85, 874-882	2.3	6
1	Effect of Ionic Liquid on the Retention and Separation Behavior of Various Amino Acids in Reversed Phase Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007 , 30, 2989-3006	1.3	5