

Zhaoyang Yuan

List of Publications by Year in descending order

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31
papers

853
citations

430442

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32
times ranked

1049
citing authors

#	ARTICLE	IF	CITATIONS
1	Technoeconomic evaluation of recent process improvements in production of sugar and high-value lignin co-products via two-stage Cu-catalyzed alkaline-oxidative pretreatment. , 2022, 15, 45.		3
2	Enhancing bagasse enzymatic hydrolysis through combination of ball-milling and LiCl/DMSO dissolution and regeneration. Renewable Energy, 2021, 171, 994-1001.	4.3	7
3	Effective Biomass Fractionation through Oxygen-Enhanced Alkaline-oxidative Pretreatment. ACS Sustainable Chemistry and Engineering, 2021, 9, 1118-1127.	3.2	13
4	High Titer Ethanol Production from Combined Alkaline/Alkaline Hydrogen Peroxide Pretreated Bamboo at High Solid Loading. Waste and Biomass Valorization, 2020, 11, 2795-2805.	1.8	7
5	Cellulose nanofibril-polymer hybrids for protecting drilling fluid at high salinity and high temperature. Carbohydrate Polymers, 2020, 229, 115465.	5.1	22
6	Ultraviolet light enhanced sodium persulfate oxidation of cellulose to facilitate the preparation of cellulose nanofibers. Cellulose, 2020, 27, 2041-2051.	2.4	15
7	Evaluation of Ultraviolet Light and Hydrogen Peroxide Enhanced Ozone Oxidation Treatment for the Production of Cellulose Nanofibrils. ACS Sustainable Chemistry and Engineering, 2020, 8, 2688-2697.	3.2	31
8	Zwitterionic Cellulose Nanofibrils with High Salt Sensitivity and Tolerance. Biomacromolecules, 2020, 21, 1471-1479.	2.6	17
9	A comparison of different pre-extraction methods followed by steam pretreatment of bamboo to improve the enzymatic digestibility and ethanol production. Energy, 2020, 196, 117156.	4.5	19
10	Insight into fractionation performance of American old corrugated containers pulp in pressure screening. Nordic Pulp and Paper Research Journal, 2020, 35, 34-42.	0.3	1
11	Integrated Two-Stage Alkaline-oxidative Pretreatment of Hybrid Poplar. Part 2: Impact of Cu-Catalyzed Alkaline Hydrogen Peroxide Pretreatment Conditions on Process Performance and Economics. Industrial & Engineering Chemistry Research, 2019, 58, 16000-16008.	1.8	9
12	Enhancing the redispersibility of TEMPO-mediated oxidized cellulose nanofibrils in N,N-dimethylformamide by modification with cetyltrimethylammonium bromide. Cellulose, 2019, 26, 7769-7780.	2.4	24
13	Improving corn stover enzymatic saccharification via ferric chloride catalyzed dimethyl sulfoxide pretreatment and various additives. Industrial Crops and Products, 2019, 140, 111663.	2.5	44
14	Integrated Two-Stage Alkaline-Oxidative Pretreatment of Hybrid Poplar. Part 1: Impact of Alkaline Pre-Extraction Conditions on Process Performance and Lignin Properties. Industrial & Engineering Chemistry Research, 2019, 58, 15989-15999.	1.8	19
15	Improving the production of nanofibrillated cellulose from bamboo pulp by the combined cellulase and refining treatment. Journal of Chemical Technology and Biotechnology, 2019, 94, 2178-2186.	1.6	12
16	Hydrogels prepared from cellulose nanofibrils via ferric ion-mediated crosslinking reaction for protecting drilling fluid. Carbohydrate Polymers, 2019, 212, 67-74.	5.1	38
17	Preparation and Characterization of Lignin-Containing Cellulose Nanofibril from Poplar High-Yield Pulp via TEMPO-Mediated Oxidation and Homogenization. ACS Sustainable Chemistry and Engineering, 2019, 7, 6131-6139.	3.2	84
18	Comparison of alkaline and acid-catalyzed steam pretreatments for ethanol production from tobacco stalk. Industrial Crops and Products, 2019, 142, 111864.	2.5	25

#	ARTICLE	IF	CITATIONS
19	Production of bioethanol and value added compounds from wheat straw through combined alkaline/alkaline-peroxide pretreatment. <i>Bioresource Technology</i> , 2018, 259, 228-236.	4.8	75
20	Ethanol production from bamboo using mild alkaline pre-extraction followed by alkaline hydrogen peroxide pretreatment. <i>Bioresource Technology</i> , 2018, 247, 242-249.	4.8	74
21	Enhancement of hydrophobicity of nanofibrillated cellulose through grafting of alkyl ketene dimer. <i>Cellulose</i> , 2018, 25, 6863-6871.	2.4	37
22	Evaluation of an organosolv-based biorefinery process to fractionate wheat straw into ethanol and co-products. <i>Industrial Crops and Products</i> , 2018, 121, 294-302.	2.5	38
23	Enhancement of sugar recovery and ethanol production from wheat straw through alkaline pre-extraction followed by steam pretreatment. <i>Bioresource Technology</i> , 2018, 266, 194-202.	4.8	37
24	A biorefinery scheme to fractionate bamboo into high-grade dissolving pulp and ethanol. <i>Biotechnology for Biofuels</i> , 2017, 10, 38.	6.2	39
25	Evaluation of an integrated process to fully utilize bamboo biomass during the production of bioethanol. <i>Bioresource Technology</i> , 2017, 236, 202-211.	4.8	19
26	Increasing efficiency of enzymatic hemicellulose removal from bamboo for production of high-grade dissolving pulp. <i>Bioresource Technology</i> , 2017, 223, 40-46.	4.8	35
27	An eco-friendly scheme to eliminate silica problems during bamboo biomass fractionation. <i>Nordic Pulp and Paper Research Journal</i> , 2017, 32, 4-13.	0.3	12
28	Response of Biomass Species to Hydrothermal Pretreatment. , 2017, , 95-140.		10
29	Insight into the evolution of the proton concentration during autohydrolysis and dilute-acid hydrolysis of hemicellulose. <i>Biotechnology for Biofuels</i> , 2016, 9, 224.	6.2	21
30	Effect of alkaline pre-extraction of hemicelluloses and silica on kraft pulping of bamboo (<i>Neosinocalamus affinis</i> Keng). <i>Industrial Crops and Products</i> , 2016, 91, 66-75.	2.5	43
31	Preparation and characterization of crosslinked glyoxalated polyacrylamide paper's strengthening agent. <i>Journal of Applied Polymer Science</i> , 2012, 126, E459.	1.3	23