

# Zhaoyang Yuan

## List of Publications by Year in descending order

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31  
papers

853  
citations

430442

18  
h-index

500791

28  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and Characterization of Lignin-Containing Cellulose Nanofibril from Poplar High-Yield Pulp via TEMPO-Mediated Oxidation and Homogenization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6131-6139.	3.2	84
2	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
3	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
4	Improving corn stover enzymatic saccharification via ferric chloride catalyzed dimethyl sulfoxide pretreatment and various additives. <i>Industrial Crops and Products</i> , 2019, 140, 111663.	2.5	44
5	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
6	A biorefinery scheme to fractionate bamboo into high-grade dissolving pulp and ethanol. <i>Biotechnology for Biofuels</i> , 2017, 10, 38.	6.2	39
7	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
8	Hydrogels prepared from cellulose nanofibrils via ferric ion-mediated crosslinking reaction for protecting drilling fluid. <i>Carbohydrate Polymers</i> , 2019, 212, 67-74.	5.1	38
9	Enhancement of hydrophobicity of nanofibrillated cellulose through grafting of alkyl ketene dimer. <i>Cellulose</i> , 2018, 25, 6863-6871.	2.4	37
10	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
11	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
12	Evaluation of Ultraviolet Light and Hydrogen Peroxide Enhanced Ozone Oxidation Treatment for the Production of Cellulose Nanofibrils. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2688-2697.	3.2	31
13	Comparison of alkaline and acid-catalyzed steam pretreatments for ethanol production from tobacco stalk. <i>Industrial Crops and Products</i> , 2019, 142, 111864.	2.5	25
14	Enhancing the redispersibility of TEMPO-mediated oxidized cellulose nanofibrils in N,N-dimethylformamide by modification with cetyltrimethylammonium bromide. <i>Cellulose</i> , 2019, 26, 7769-7780.	2.4	24
15	Preparation and characterization of crosslinked glyoxalated polyacrylamide paper-strengthening agent. <i>Journal of Applied Polymer Science</i> , 2012, 126, E459.	1.3	23
16	Cellulose nanofibril-polymer hybrids for protecting drilling fluid at high salinity and high temperature. <i>Carbohydrate Polymers</i> , 2020, 229, 115465.	5.1	22
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Integrated Two-Stage Alkaline-Oxidative Pretreatment of Hybrid Poplar. Part 1: Impact of Alkaline Pre-Extraction Conditions on Process Performance and Lignin Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 15989-15999.	1.8	19
20	A comparison of different pre-extraction methods followed by steam pretreatment of bamboo to improve the enzymatic digestibility and ethanol production. <i>Energy</i> , 2020, 196, 117156.	4.5	19
21	Zwitterionic Cellulose Nanofibrils with High Salt Sensitivity and Tolerance. <i>Biomacromolecules</i> , 2020, 21, 1471-1479.	2.6	17
22	Ultraviolet light enhanced sodium persulfate oxidation of cellulose to facilitate the preparation of cellulose nanofibers. <i>Cellulose</i> , 2020, 27, 2041-2051.	2.4	15
23	Effective Biomass Fractionation through Oxygen-Enhanced Alkaline-Oxidative Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1118-1127.	3.2	13
24	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
25	Improving the production of nanofibrillated cellulose from bamboo pulp by the combined cellulase and refining treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2178-2186.	1.6	12
26	Response of Biomass Species to Hydrothermal Pretreatment. , 2017, , 95-140.		10
27	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. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 16000-16008.	1.8	9
28	High Titer Ethanol Production from Combined Alkaline/Alkaline Hydrogen Peroxide Pretreated Bamboo at High Solid Loading. <i>Waste and Biomass Valorization</i> , 2020, 11, 2795-2805.	1.8	7
29	Enhancing bagasse enzymatic hydrolysis through combination of ball-milling and LiCl/DMSO dissolution and regeneration. <i>Renewable Energy</i> , 2021, 171, 994-1001.	4.3	7
30	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
31	Insight into fractionation performance of American old corrugated containers pulp in pressure screening. <i>Nordic Pulp and Paper Research Journal</i> , 2020, 35, 34-42.	0.3	1