

Ning Sun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7032290/publications.pdf>

Version: 2024-02-01

40
papers

4,316
citations

236925

25
h-index

302126

39
g-index

44
all docs

44
docs citations

44
times ranked

5267
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Properties of Ionic Liquids: Database and Evaluation. Journal of Physical and Chemical Reference Data, 2006, 35, 1475-1517.	4.2	1,045
2	Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate. Green Chemistry, 2009, 11, 646.	9.0	906
3	Where are ionic liquid strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?. Chemical Communications, 2011, 47, 1405-1421.	4.1	391
4	Dissolution or extraction of crustacean shells using ionic liquids to obtain high molecular weight purified chitin and direct production of chitin films and fibers. Green Chemistry, 2010, 12, 968.	9.0	364
5	Rapid dissolution of lignocellulosic biomass in ionic liquids using temperatures above the glass transition of lignin. Green Chemistry, 2011, 13, 2038.	9.0	203
6	Understanding pretreatment efficacy of four cholinium and imidazolium ionic liquids by chemistry and computation. Green Chemistry, 2014, 16, 2546-2557.	9.0	138
7	Magnetite-embedded cellulose fibers prepared from ionic liquid. Journal of Materials Chemistry, 2008, 18, 283-290.	6.7	124
8	A Thermophilic Ionic Liquid-Tolerant Cellulase Cocktail for the Production of Cellulosic Biofuels. PLoS ONE, 2012, 7, e37010.	2.5	98
9	Demonstrating a separation-free process coupling ionic liquid pretreatment, saccharification, and fermentation with <i>Rhodospiridium toruloides</i> to produce advanced biofuels. Green Chemistry, 2018, 20, 2870-2879.	9.0	77
10	Prediction of the melting points for two kinds of room temperature ionic liquids. Fluid Phase Equilibria, 2006, 246, 137-142.	2.5	73
11	Use of Polyoxometalate Catalysts in Ionic Liquids to Enhance the Dissolution and Delignification of Woody Biomass. ChemSusChem, 2011, 4, 65-73.	6.8	71
12	Biphasic liquid mixtures of ionic liquids and polyethylene glycols. Physical Chemistry Chemical Physics, 2009, 11, 10916.	2.8	69
13	Composite fibers spun directly from solutions of raw lignocellulosic biomass dissolved in ionic liquids. Green Chemistry, 2011, 13, 1158.	9.0	64
14	Production and extraction of sugars from switchgrass hydrolyzed in ionic liquids. Biotechnology for Biofuels, 2013, 6, 39.	6.2	62
15	Characterizing Variability in Lignocellulosic Biomass: A Review. ACS Sustainable Chemistry and Engineering, 2020, 8, 8059-8085.	6.7	55
16	Development of an E. coli strain for one-pot biofuel production from ionic liquid pretreated cellulose and switchgrass. Green Chemistry, 2016, 18, 4189-4197.	9.0	52
17	Enhanced corn-stover fermentation for biogas production by NaOH pretreatment with CaO additive and ultrasound. Journal of Cleaner Production, 2019, 238, 117813.	9.3	52
18	Activation of lignocellulosic biomass for higher sugar yields using aqueous ionic liquid at low severity process conditions. Biotechnology for Biofuels, 2016, 9, 160.	6.2	44

#	ARTICLE	IF	CITATIONS
19	Acid enhanced ionic liquid pretreatment of biomass. <i>Green Chemistry</i> , 2013, 15, 1264.	9.0	40
20	Impact of Pretreatment Technologies on Saccharification and Isopentenol Fermentation of Mixed Lignocellulosic Feedstocks. <i>Bioenergy Research</i> , 2015, 8, 1004-1013.	3.9	40
21	High-Efficiency Conversion of Ionic Liquid-Pretreated Woody Biomass to Ethanol at the Pilot Scale. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4042-4053.	6.7	40
22	Scale-up of biomass conversion using 1-ethyl-3-methylimidazolium acetate as the solvent. <i>Green Energy and Environment</i> , 2019, 4, 432-438.	8.7	36
23	Deconstruction of Woody Biomass via Protic and Aprotic Ionic Liquid Pretreatment for Ethanol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4422-4432.	6.7	34
24	Blending municipal solid waste with corn stover for sugar production using ionic liquid process. <i>Bioresource Technology</i> , 2015, 186, 200-206.	9.6	28
25	Cooperative Brønsted-Lewis acid sites created by phosphotungstic acid encapsulated metal-organic frameworks for selective glucose conversion to 5-hydroxymethylfurfural. <i>Fuel</i> , 2022, 310, 122459.	6.4	28
26	Scale-up and process integration of sugar production by acidolysis of municipal solid waste/corn stover blends in ionic liquids. <i>Biotechnology for Biofuels</i> , 2017, 10, 13.	6.2	24
27	Xylose induces cellulase production in <i>Thermoascus aurantiacus</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 271.	6.2	24
28	Statistical design of experiments for production and purification of vanillin and aminophenols from commercial lignin. <i>Green Chemistry</i> , 2020, 22, 3917-3926.	9.0	23
29	Theoretical study on the microscopic mechanism of lignin solubilization in Keggin-type polyoxometalate ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2878-2886.	2.8	20
30	Conversion of cellulose rich municipal solid waste blends using ionic liquids: feedstock convertibility and process scale-up. <i>RSC Advances</i> , 2017, 7, 36585-36593.	3.6	16
31	Reinforced magnetic cellulose fiber from ionic liquid solution. <i>Nanomaterials and Energy</i> , 2012, 1, 225-236.	0.2	15
32	Methyl Ketones from Municipal Solid Waste Blends by One-Pot Ionic Liquid Pretreatment, Saccharification, and Fermentation. <i>ChemSusChem</i> , 2019, 12, 4313-4322.	6.8	14
33	Periodicity and map for discovery of new ionic liquids. <i>Science in China Series B: Chemistry</i> , 2006, 49, 103-115.	0.8	9
34	Properties of Cellulose/TiO ₂ Fibers Processed from Ionic Liquids. <i>ACS Symposium Series</i> , 2010, , 261-274.	0.5	8
35	Recovery of low molecular weight compounds from alkaline pretreatment liquor via membrane separations. <i>Green Chemistry</i> , 2022, 24, 3152-3166.	9.0	8
36	Genomics Characterization of an Engineered <i>Corynebacterium glutamicum</i> in Bioreactor Cultivation Under Ionic Liquid Stress. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 766674.	4.1	6

#	ARTICLE	IF	CITATIONS
37	Upgrading of Postconsumer Absorbent Hygiene Products for Bioethanol Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 3589-3595.	6.7	5
38	Conversion of Paper and Food-rich Municipal Solid Waste Streams to Ethanol through Bioprocessing. ACS Sustainable Chemistry and Engineering, 2020, 8, 16889-16896.	6.7	5
39	Fractionation of Lignin Streams Using Tangential Flow Filtration. Industrial & Engineering Chemistry Research, 2022, 61, 4407-4417.	3.7	4
40	Scale-Up of the Ionic Liquid-Based Biomass Conversion Processes. , 2022, , 1-8.		0