

Jiayu Xin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2743546/publications.pdf>

Version: 2024-02-01

53
papers

2,538
citations

218677

26
h-index

189892

50
g-index

56
all docs

56
docs citations

56
times ranked

2985
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning Screening of Efficient Ionic Liquids for Targeted Cleavage of the β -O-4 Bond of Lignin. <i>Journal of Physical Chemistry B</i> , 2022, 126, 3693-3704.	2.6	6
2	Base-free synthesis of bio-derived 2,5-furandicarboxylic acid using SBA-15-supported heteropoly acids in ionic liquids. <i>ChemistrySelect</i> , 2022, 7, .	1.5	0
3	Removal of trace amount impurities in glycolytic monomer of polyethylene terephthalate by recrystallization. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106277.	6.7	19
4	Progress in the catalytic glycolysis of polyethylene terephthalate. <i>Journal of Environmental Management</i> , 2021, 296, 113267.	7.8	79
5	Metal-free and mild photo-thermal synergism in ionic liquids for lignin C-C bond cleavage to provide aldehydes. <i>Green Chemistry</i> , 2021, 23, 5524-5534.	9.0	15
6	Ethylenediamine Enhances Ionic Liquid Pretreatment Performance at High Solid Loading. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13007-13018.	6.7	27
7	Weak Bonds Joint Effects Catalyze the Cleavage of Strong C-C Bond of Lignin-Inspired Compounds and Lignin in Air by Ionic Liquids. <i>ChemSusChem</i> , 2020, 13, 5945-5953.	6.8	7
8	A renewable co-solvent promoting the selective removal of lignin by increasing the total number of hydrogen bonds. <i>Green Chemistry</i> , 2020, 22, 6393-6403.	9.0	18
9	Adsorption Thermodynamics and Kinetics of Resin for Metal Impurities in Bis(2-hydroxyethyl) Terephthalate. <i>Polymers</i> , 2020, 12, 2866.	4.5	9
10	Selective Deoxygenation of Lignin-Derived Phenols and Dimeric Ethers with Protic Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4864-4871.	3.7	8
11	Degradation of poly(ethylene terephthalate) catalyzed by metal-free choline-based ionic liquids. <i>Green Chemistry</i> , 2020, 22, 3122-3131.	9.0	111
12	Metal-Free Photochemical Degradation of Lignin-Derived Aryl Ethers and Lignin by Autologous Radicals through Ionic Liquid Induction. <i>ChemSusChem</i> , 2019, 12, 4005-4013.	6.8	37
13	Efficient hydrodeoxygenation of lignin-derived phenols and dimeric ethers with synergistic [Bmim]PF ₆ -Ru/SBA-15 catalysis under acid free conditions. <i>Green Chemistry</i> , 2019, 21, 597-605.	9.0	41
14	Theoretical Study on the Conversion Mechanism of Biobased 2,5-Dimethylfuran and Acrylic Acid into Aromatics Catalyzed by Brønsted Acid Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 11111-11120.	3.7	12
15	High Aluminum Content Beta Zeolite as an Active Lewis Acid Catalyst for γ -Valerolactone Decarboxylation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 11841-11848.	3.7	12
16	Highly Efficient Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid with Heteropoly Acids and Ionic Liquids. <i>ChemSusChem</i> , 2019, 12, 2715-2724.	6.8	58
17	Catalytic synthesis of renewable hydrocarbons via hydrodeoxygenation of angelica lactone di/trimers. <i>Fuel</i> , 2018, 221, 311-319.	6.4	3
18	Direct conversion of cellulose to sorbitol via an enhanced pretreatment with ionic liquids. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2617-2624.	3.2	15

#	ARTICLE	IF	CITATIONS
19	Base-free preparation of low molecular weight chitin from crab shell. Carbohydrate Polymers, 2018, 190, 148-155.	10.2	39
20	One-step preparation of an antibacterial chitin/Zn composite from shrimp shells using urea-Zn(OAc) ₂ ·2H ₂ O aqueous solution. Green Chemistry, 2018, 20, 2212-2217.	9.0	24
21	One-Pot Synthesis of 2,5-Furandicarboxylic Acid from Fructose in Ionic Liquids. Industrial & Engineering Chemistry Research, 2018, 57, 1851-1858.	3.7	46
22	One-Step Conversion of Biomass-Derived Furanics into Aromatics by Brønsted Acid Ionic Liquids at Room Temperature. ACS Sustainable Chemistry and Engineering, 2018, 6, 2541-2551.	6.7	52
23	Separation and characterization of cellulose I material from corn straw by low-cost polyhydric protic ionic liquids. Cellulose, 2018, 25, 3241-3254.	4.9	30
24	Fe/Zr/O catalyzed base-free aerobic oxidation of 5-HMF to 2,5-FDCA as a bio-based polyester monomer. Catalysis Science and Technology, 2018, 8, 164-175.	4.1	88
25	Ultrafast Homogeneous Glycolysis of Waste Polyethylene Terephthalate via a Dissolution-Degradation Strategy. Industrial & Engineering Chemistry Research, 2018, 57, 16239-16245.	3.7	92
26	Facile Synthesis of Cellulose/ZnO Aerogel with Uniform and Tunable Nanoparticles Based on Ionic Liquid and Polyhydric Alcohol. ACS Sustainable Chemistry and Engineering, 2018, 6, 16248-16254.	6.7	14
27	A Simple and Mild Approach for the Synthesis of p-Xylene from Bio-Based 2,5-Dimethylfuran by Using Metal Triflates. ChemSusChem, 2017, 10, 2394-2401.	6.8	40
28	Production of Bio-Based Gasoline by Noble Metal Catalyzed Hydrodeoxygenation of Angelica Lactone Derived Di/Trimers. ChemistrySelect, 2017, 2, 4219-4225.	1.5	14
29	Base-free conversion of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid in ionic liquids. Chemical Engineering Journal, 2017, 323, 473-482.	12.7	76
30	Conversion of bis(2-hydroxyethylene terephthalate) into 1,4-cyclohexanedimethanol by selective hydrogenation using RuPtSn/Al ₂ O ₃ . RSC Advances, 2016, 6, 48737-48744.	3.6	13
31	Ionic liquids and supercritical carbon dioxide: green and alternative reaction media for chemical processes. Reviews in Chemical Engineering, 2016, 32, 587-609.	4.4	24
32	Sub/supercritical carbon dioxide induced phase switching for the reaction and separation in ILs/methanol. Green Energy and Environment, 2016, 1, 144-148.	8.7	13
33	Using Sub/Supercritical CO ₂ as a Phase Separation Switch for the Efficient Production of 5-Hydroxymethylfurfural from Fructose in an Ionic Liquid/Organic Biphasic System. ACS Sustainable Chemistry and Engineering, 2016, 4, 557-563.	6.7	40
34	Conversion of lignin model compounds under mild conditions in pseudo-homogeneous systems. Green Chemistry, 2016, 18, 2341-2352.	9.0	66
35	Hydrodeoxygenation of angelica lactone dimers and trimers over silica-alumina supported nickel catalyst. Renewable Energy, 2016, 86, 943-948.	8.9	15
36	Preparation of 1,4-cyclohexanedimethanol by selective hydrogenation of a waste PET monomer bis(2-hydroxyethylene terephthalate). RSC Advances, 2015, 5, 485-492.	3.6	14

#	ARTICLE	IF	CITATIONS
37	Conversion of biomass derived valerolactone into high octane number gasoline with an ionic liquid. <i>Green Chemistry</i> , 2015, 17, 1065-1070.	9.0	60
38	An effective two-step ionic liquids method for cornstalk pretreatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 2057-2065.	3.2	6
39	Application of solid acid catalyst derived from low value biomass for a cheaper biodiesel production. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1898-1909.	3.2	31
40	Dimethyl carbonate mediated production of biodiesel at different reaction temperatures. <i>Renewable Energy</i> , 2014, 68, 581-587.	8.9	41
41	Ionic liquid-based green processes for energy production. <i>Chemical Society Reviews</i> , 2014, 43, 7838-7869.	38.1	399
42	Effective conversion of non-edible oil with high free fatty acid into biodiesel by sulphonated carbon catalyst. <i>Applied Energy</i> , 2014, 114, 819-826.	10.1	186
43	Efficient Conversion of Î±-Angelica Lactone into Î³-Valerolactone with Ionic Liquids at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 902-909.	6.7	31
44	Formation of C-C bonds for the production of bio-alkanes under mild conditions. <i>Green Chemistry</i> , 2014, 16, 3589-3595.	9.0	68
45	Superbase/cellulose: an environmentally benign catalyst for chemical fixation of carbon dioxide into cyclic carbonates. <i>Green Chemistry</i> , 2014, 16, 3071.	9.0	180
46	Effects of cations and anions of ionic liquids on the production of 5-hydroxymethylfurfural from fructose. <i>Chemical Communications</i> , 2012, 48, 4103.	4.1	84
47	Test methods for the determination of biodiesel stability. <i>Biofuels</i> , 2010, 1, 275-289.	2.4	11
48	Method for Improving Oxidation Stability of Biodiesel. <i>Green Energy and Technology</i> , 2010, , 171-175.	0.6	1
49	Improvement of the oxidation stability of biodiesel as prepared by supercritical methanol method with lignin. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 835-842.	1.5	8
50	Kinetics on the oxidation of biodiesel stabilized with antioxidant. <i>Fuel</i> , 2009, 88, 282-286.	6.4	130
51	Effect of CO ₂ /N ₂ addition to supercritical methanol on reactivities and fuel qualities in biodiesel production. <i>Fuel</i> , 2009, 88, 1329-1332.	6.4	45
52	Oxidation stability of biodiesel fuel as prepared by supercritical methanol. <i>Fuel</i> , 2008, 87, 1807-1813.	6.4	78
53	A techno-economic analysis of bio-gasoline production from corn stover via catalytic conversion. <i>Clean Technologies and Environmental Policy</i> , 0, , 1.	4.1	1