Xingmei

List of Publications by Citations

78 papers	3,471 citations	30 h-index	58 g-index
85 ext. papers	4,180 ext. citations	6.1 avg, IF	5.41 L-index

#	Paper	IF	Citations
78	Physical Properties of Ionic Liquids: Database and Evaluation. *Journal of Physical and Chemical Reference Data*, **2006**, 35, 1475-1517	4.3	920
77	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	10	320
76	Rapid dissolution of lignocellulosic biomass in ionic liquids using temperatures above the glass transition of lignin. *Green Chemistry*, **2011**, 13, 2038	10	177
75	Cascade utilization of lignocellulosic biomass to high-value products. *Green Chemistry*, **2019**, 21, 3499-3535	10	139
74	Deep eutectic solvents as highly active catalysts for the fast and mild glycolysis of poly(ethylene terephthalate)(PET). *Green Chemistry*, **2015**, 17, 2473-2479	10	108
73	First-Row Transition Metal-Containing Ionic Liquids as Highly Active Catalysts for the Glycolysis of Poly(ethylene terephthalate) (PET). *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 340-348	8.3	98
72	Electrodeposition in Ionic Liquids. *ChemPhysChem*, **2016**, 17, 335-51	3.2	88
71	Urea as an efficient and reusable catalyst for the glycolysis of poly(ethylene terephthalate) wastes and the role of hydrogen bond in this process. *Green Chemistry*, **2012**, 14, 2559	10	86
70	Fe2r0 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	5.5	62
69	Formation of C C bonds for the production of bio-alkanes under mild conditions. *Green Chemistry*, **2014**, 16, 3589-3595	10	59
68	Conversion of lignin model compounds under mild conditions in pseudo-homogeneous systems. *Green Chemistry*, **2016**, 18, 2341-2352	10	58
67	Lewis AcidBase Synergistic Catalysis for Polyethylene Terephthalate Degradation by 1,3-Dimethylurea/Zn(OAc)2 Deep Eutectic Solvent. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3292-3300	8.3	57
66	Composite fibers spun directly from solutions of raw lignocellulosic biomass dissolved in ionic liquids. *Green Chemistry*, **2011**, 13, 1158	10	54
65	Investigation of solid catalysts for glycolysis of polyethylene terephthalate. *Chemical Engineering Journal*, **2012**, 185-186, 168-177	14.7	50
64	Direct conversion of shrimp shells to O-acylated chitin with antibacterial and anti-tumor effects by natural deep eutectic solvents. *Green Chemistry*, **2019**, 21, 87-98	10	45
63	Alcoholysis of polyethylene terephthalate to produce dioctyl terephthalate using choline chloride-based deep eutectic solvents as efficient catalysts. *Green Chemistry*, **2019**, 21, 897-906	10	44
62	Effective catalysis of poly(ethylene terephthalate) (PET) degradation by metallic acetate ionic liquids. *Pure and Applied Chemistry*, **2012**, 84, 789-801	2.1	44

61	Conversion of biomass derived valerolactone into high octane number gasoline with an ionic liquid. *Green Chemistry*, **2015**, 17, 1065-1070	10	43
60	Degradation of poly(ethylene terephthalate) catalyzed by metal-free choline-based ionic liquids. *Green Chemistry*, **2020**, 22, 3122-3131	10	43
59	A promising method for electrodeposition of aluminium on stainless steel in ionic liquid. *AICHE Journal*, **2009**, 55, 783-796	3.6	42
58	Ultrafast Homogeneous Glycolysis of Waste Polyethylene Terephthalate via a Dissolution-Degradation Strategy. *Industrial & Engineering Chemistry Research*, **2018**, 57, 16239-16245	3.9	42
57	Fast and effective glycolysis of poly(ethylene terephthalate) catalyzed by polyoxometalate. *Polymer Degradation and Stability*, **2015**, 117, 30-36	4.7	41
56	Densities and Viscosities of Binary Mixtures Containing 1,3-Dimethylimidazolium Dimethylphosphate and Alcohols. *Journal of Chemical & Engineering Data*, **2014**, 59, 2377-2388	2.8	41
55	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	8.3	40
54	Highly Efficient Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid with Heteropoly Acids and Ionic Liquids. *ChemSusChem*, **2019**, 12, 2715-2724	8.3	36
53	Using Sub/Supercritical CO2 as 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	8.3	33
52	Effect of nicotinamide on electrodeposition of Al from aluminium chloride (AlCl3)-1-butyl-3-methylimidazolium chloride ([Bmim]Cl) ionic liquids. *Journal of Solid State Electrochemistry*, **2014**, 18, 257-267	2.6	33
51	Electrodeposition of zinc coatings from the solutions of zinc oxide in imidazolium chloride/urea mixtures. *Science China Chemistry*, **2012**, 55, 1587-1597	7.9	32
50	1-Allyl-3-methylimidazolium halometallate ionic liquids as efficient catalysts for the glycolysis of poly(ethylene terephthalate). *Journal of Applied Polymer Science*, **2013**, 129, 3574-3581	2.9	32
49	Rapid and productive extraction of high purity cellulose material via selective depolymerization of the lignin-carbohydrate complex at mild conditions. *Green Chemistry*, **2017**, 19, 2234-2243	10	30
48	Simple and safe synthesis of microporous aluminophosphate molecular sieves by ionothermal approach. *AICHE Journal*, **2008**, 54, 280-288	3.6	30
47	Vinyl-functionalized imidazolium ionic liquids as new electrolyte additives for high-voltage Li-ion batteries. *Journal of Solid State Electrochemistry*, **2013**, 17, 2839-2848	2.6	29
46	A Simple and Mild Approach for the Synthesis of p-Xylene from Bio-Based 2,5-Dimethyfuran by Using Metal Triflates. *ChemSusChem*, **2017**, 10, 2394-2401	8.3	28
45	One-Pot Synthesis of 2,5-Furandicarboxylic Acid from Fructose in Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2018**, 57, 1851-1858	3.9	26
44	Efficient hydrodeoxygenation of lignin-derived phenols and dimeric ethers with synergistic [Bmim]PF6-Ru/SBA-15 catalysis under acid free conditions. *Green Chemistry*, **2019**, 21, 597-605	10	25

43	Inhibiting degradation of cellulose dissolved in ionic liquids via amino acids. *Green Chemistry*, **2019**, 21, 2777-2787	10	25
42	Characterization of Solid Acid Catalysts and Their Reactivity in the Glycolysis of Poly(ethylene terephthalate). *Industrial & Engineering Chemistry Research*, **2012**, 51, 11659-11666	3.9	24
41	A facile ionic liquid approach to prepare cellulose-rich aerogels directly from corn stalks. *Green Chemistry*, **2019**, 21, 2699-2708	10	21
40	Chlorine-free alternatives to the synthesis of ionic liquids for biomass processing. *Pure and Applied Chemistry*, **2012**, 84, 745-754	2.1	21
39	Base-free preparation of low molecular weight chitin from crab shell. *Carbohydrate Polymers*, **2018**, 190, 148-155	10.3	20
38	High-efficiency glycolysis of poly(ethylene terephthalate) by sandwich-structure polyoxometalate catalyst with two active sites. *Polymer Degradation and Stability*, **2018**, 156, 22-31	4.7	20
37	A piperidinium-based ionic liquid electrolyte to enhance the electrochemical properties of LiFePO4 battery. *Ionics*, **2015**, 21, 2109-2117	2.7	19
36	One-step preparation of an antibacterial chitin/Zn composite from shrimp shells using urea-Zn(OAc)2□2H2O aqueous solution. *Green Chemistry*, **2018**, 20, 2212-2217	10	19
35	Aluminum Deposition from Lewis Acidic 1-Butyl-3-Methylimidazolium Chloroaluminate Ionic Liquid ([Bmim]Cl/AlCl3) Modified with Methyl Nicotinate. *ChemElectroChem*, **2015**, 2, 1794-1798	4.3	19
34	Separation and characterization of cellulose I material from corn straw by low-cost polyhydric protic ionic liquids. *Cellulose*, **2018**, 25, 3241-3254	5.5	18
33	Theoretical studies on glycolysis of poly(ethylene terephthalate) in ionic liquids.. *RSC Advances*, **2018**, 8, 8209-8219	3.7	17
32	Metal-Free Photochemical Degradation of Lignin-Derived Aryl Ethers and Lignin by Autologous Radicals through Ionic Liquid Induction. *ChemSusChem*, **2019**, 12, 4005-4013	8.3	17
31	Triethylbutylammonium bis(trifluoromethanesulphonyl)imide ionic liquid as an effective electrolyte additive for Li-ion batteries. *Ionics*, **2013**, 19, 887-894	2.7	17
30	Coagulation of Chitin and Cellulose from 1-Ethyl-3-methylimidazolium Acetate Ionic-Liquid Solutions Using Carbon Dioxide. *Angewandte Chemie*, **2013**, 125, 12576-12579	3.6	16
29	Direct conversion of cellulose to sorbitol via an enhanced pretreatment with ionic liquids. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 2617-2624	3.5	14
28	Progress in the catalytic glycolysis of polyethylene terephthalate. *Journal of Environmental Management*, **2021**, 296, 113267	7.9	13
27	Nanoscale Observation of Microfibril Swelling and Dissolution in Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 909-917	8.3	12
26	Electrodeposition of Al from chloroaluminate ionic liquids with different cations. *Ionics*, **2017**, 23, 2449-2455	2.7	9

25	Physicochemical Properties of Various 2-Hydroxyethylammonium Sulfonate -Based Protic Ionic Liquids and Their Potential Application in Hydrodeoxygenation. *Frontiers in Chemistry*, **2019**, 7, 196	5	9
24	In Situ Catalytic Pyrolysis of Low-Rank Coal for the Conversion of Heavy Oils into Light Oils. *Advances in Materials Science and Engineering*, **2017**, 2017, 1-8	1.5	8
23	Enhanced delignification of cornstalk by employing superbase TBD in ionic liquids. *RSC Advances*, **2014**, 4, 27430-27438	3.7	8
22	Preparation of 1,4-cyclohexanedimethanol by selective hydrogenation of a waste PET monomer bis(2-hydroxyethylene terephthalate). *RSC Advances*, **2015**, 5, 485-492	3.7	8
21	Rheological properties of cotton pulp cellulose dissolved in 1-butyl-3-methylimidazolium chloride solutions. *Polymer Engineering and Science*, **2011**, 51, 2381-2386	2.3	8
20	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	8.3	8
19	Periodicity and map for discovery of new ionic liquids. *Science in China Series B: Chemistry*, **2006**, 49, 103-115		6
18	Preparation of the Catalytic Chitin/Zn Composite by Combined Ionic Liquid–Inorganic Salt Aqueous Solution from Shrimp Shells. *ACS Sustainable Chemistry and Engineering*, **2019**,	8.3	5
17	An effective two-step ionic liquids method for cornstalk pretreatment. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 2057-2065	3.5	5
16	Selective Deoxygenation of Lignin-Derived Phenols and Dimeric Ethers with Protic Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2020**, 59, 4864-4871	3.9	5
15	Physicochemical Properties of Ionic Liquids **2014**, 275-307		5
14	A renewable co-solvent promoting the selective removal of lignin by increasing the total number of hydrogen bonds. *Green Chemistry*, **2020**, 22, 6393-6403	10	5
13	Ion-Exchange Resins for Efficient Removal of Colorants in Bis(hydroxyethyl) Terephthalate. *ACS Omega*, **2021**, 6, 12351-12360	3.9	5
12	Conversion of bis(2-hydroxyethylene terephthalate) into 1,4-cyclohexanedimethanol by selective hydrogenation using RuPtSn/Al2O3. *RSC Advances*, **2016**, 6, 48737-48744	3.7	5
11	High Aluminum Content Beta Zeolite as an Active Lewis Acid Catalyst for γ-Valerolactone Decarboxylation. *Industrial & Engineering Chemistry Research*, **2019**, 58, 11841-11848	3.9	4
10	The molecular mechanism study of insulin on proliferation and differentiation of osteoblasts under high glucose conditions. *Cell Biochemistry and Function*, **2019**, 37, 385-394	4.2	3
9	The molecular mechanism study of insulin in promoting wound healing under high-glucose conditions. *Journal of Cellular Biochemistry*, **2019**, 120, 16244-16253	4.7	3
8	Densities and Viscosities of Binary Mixtures Containing the Polyhydric Protic Ionic Liquid(2-hydroxy-N-(2-hydroxyethyl)-N-methylethanaminium methanesulfonate) and Water or Alcohols. *Journal of Solution Chemistry*, **2020**, 49, 423-457	1.8	3

7	Weak Bonds Joint Effects Catalyze the Cleavage of Strong C-C Bond of Lignin-Inspired Compounds and Lignin in Air by Ionic Liquids. *ChemSusChem*, **2020**, 13, 5945-5953	8.3	3
6	Multiple Hydrogen Bonds Promote the Nonmetallic Degradation Process of Polyethylene Terephthalate with an Amino Acid Ionic Liquid Catalyst. *Industrial & Engineering Chemistry Research*, **2021**, 60, 4180-4188	3.9	2
5	Synthesis, Characterisation and Magnetic Behaviour of Ionic Metalloporphyrins: Metal□Tetrakis(N-Octyl-4-Pyridinium)□Porphyrins with Tetrabromoferrate(III) Anions. *Journal of Chemical Research*, **2013**, 37, 445-450	0.6	1
4	Recycling of full components of polyester/cotton blends catalyzed by betaine-based deep eutectic solvents. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107512	6.8	1
3	Rapid alcoholysis of PET enhanced by its swelling under high temperature. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107823	6.8	1
2	A techno-economic analysis of bio-gasoline production from corn stover via catalytic conversion. *Clean Technologies and Environmental Policy*,1	4.3	0
1	Metal-free and mild photo-thermal synergism in ionic liquids for lignin C□□bond cleavage to provide aldehydes. *Green Chemistry*, **2021**, 23, 5524-5534	10	0