Xingmei

List of Publications by Year
in descending order

82 papers	5,013 citations	101543 36 h-index	91884 69 g-index
85 all docs	85 docs citations	85 times ranked	5485 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	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
3	Cascade utilization of lignocellulosic biomass to high-value products. Green Chemistry, 2019, 21, 3499-3535.	9.0	273
4	Rapid dissolution of lignocellulosic biomass in ionic liquids using temperatures above the glass transition of lignin. Green Chemistry, 2011, 13, 2038.	9.0	203
5	Deep eutectic solvents as highly active catalysts for the fast and mild glycolysis of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1	9.0	176
6	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.	6.7	151
7	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.	9.0	129
8	Lewis Acidâ€“Base 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.	6.7	121
9	Electrodeposition in Ionic Liquids. ChemPhysChem, 2016, 17, 335-351.	2.1	117
10	Degradation of poly(ethylene terephthalate) catalyzed by metal-free choline-based ionic liquids. Green Chemistry, 2020, 22, 3122-3131.	9.0	111
11	Alcoholysis of polyethylene terephthalate to produce dioctyl terephthalate using choline chloride-based deep eutectic solvents as efficient catalysts. Green Chemistry, 2019, 21, 897-906.	9.0	95
12	Ultrafast Homogeneous Glycolysis of Waste Polyethylene Terephthalate via a Dissolution-Degradation Strategy. Industrial & Engineering Chemistry Research, 2018, 57, 16239-16245.	3.7	92
13	Feâ€“Zrâ€“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
14	Direct conversion of shrimp shells to <i>O</i>-acylated chitin with antibacterial and anti-tumor effects by natural deep eutectic solvents. Green Chemistry, 2019, 21, 87-98.	9.0	81
15	Investigation of solid catalysts for glycolysis of polyethylene terephthalate. Chemical Engineering Journal, 2012, 185-186, 168-177.	12.7	79
16	Progress in the catalytic glycolysis of polyethylene terephthalate. Journal of Environmental Management, 2021, 296, 113267.	7.8	79
17	Effective catalysis of poly(ethylene terephthalate) (PET) degradation by metallic acetate ionic liquids. Pure and Applied Chemistry, 2012, 84, 789-801.	1.9	69
18	Formation of Câ€“C bonds for the production of bio-alkanes under mild conditions. Green Chemistry, 2014, 16, 3589-3595.	9.0	68

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19	Fast and effective glycolysis of poly(ethylene terephthalate) catalyzed by polyoxometalate. Polymer Degradation and Stability, 2015, 117, 30-36.	5.8	66
20	Conversion of lignin model compounds under mild conditions in pseudo-homogeneous systems. Green Chemistry, 2016, 18, 2341-2352.	9.0	66
21	Composite fibers spun directly from solutions of raw lignocellulosic biomass dissolved in ionic liquids. Green Chemistry, 2011, 13, 1158.	9.0	64
22	Conversion of biomass derived valerolactone into high octane number gasoline with an ionic liquid. Green Chemistry, 2015, 17, 1065-1070.	9.0	60
23	1â€Allylâ€3â€methylimidazolium halometallate ionic liquids as efficient catalysts for the glycolysis of poly(ethylene terephthalate). Journal of Applied Polymer Science, 2013, 129, 3574-3581.	2.6	59
24	High-efficiency glycolysis of poly(ethylene terephthalate) by sandwich-structure polyoxometalate catalyst with two active sites. Polymer Degradation and Stability, 2018, 156, 22-31.	5.8	58
25	Highly Efficient Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid with Heteropoly Acids and Ionic Liquids. ChemSusChem, 2019, 12, 2715-2724.	6.8	58
26	A promising method for electrodeposition of aluminium on stainless steel in ionic liquid. AIChE Journal, 2009, 55, 783-796.	3.6	52
27	Densities and Viscosities of Binary Mixtures Containing 1,3-Dimethylimidazolium Dimethylphosphate and Alcohols. Journal of Chemical & Engineering Data, 2014, 59, 2377-2388.	1.9	52
28	One-Step Conversion of Biomass-Derived Furanics into Aromatics by BrÃ¸nsted Acid Ionic Liquids at Room Temperature. ACS Sustainable Chemistry and Engineering, 2018, 6, 2541-2551.	6.7	52
29	One-Pot Synthesis of 2,5-Furandicarboxylic Acid from Fructose in Ionic Liquids. Industrial & Engineering Chemistry Research, 2018, 57, 1851-1858.	3.7	46
30	Inhibiting degradation of cellulose dissolved in ionic liquids <i>via</i> amino acids. Green Chemistry, 2019, 21, 2777-2787.	9.0	43
31	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.	2.5	42
32	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.	9.0	41
33	Electrodeposition of zinc coatings from the solutions of zinc oxide in imidazolium chloride/urea mixtures. Science China Chemistry, 2012, 55, 1587-1597.	8.2	40
34	Using Sub/Supercritical CO₂ as â€œPhase Separation Switchâ€• 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
35	A Simple and Mild Approach for the Synthesis of <i>p</i>â€Xylene from Bioâ€Based 2,5â€Dimethyfuran by Using Metal Triflates. ChemSusChem, 2017, 10, 2394-2401.	6.8	40
36	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.	9.0	39

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37	Base-free preparation of low molecular weight chitin from crab shell. Carbohydrate Polymers, 2018, 190, 148-155.	10.2	39
38	Metalâ€Free Photochemical Degradation of Ligninâ€Derived Aryl Ethers and Lignin by Autologous Radicals through Ionic Liquid Induction. ChemSusChem, 2019, 12, 4005-4013.	6.8	37
39	Theoretical studies on glycolysis of poly(ethylene terephthalate) in ionic liquids. RSC Advances, 2018, 8, 8209-8219.	3.6	35
40	Vinyl-functionalized imidazolium ionic liquids as new electrolyte additives for high-voltage Li-ion batteries. Journal of Solid State Electrochemistry, 2013, 17, 2839-2848.	2.5	34
41	Characterization of Solid Acid Catalysts and Their Reactivity in the Glycolysis of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.7	33
42	A facile ionic liquid approach to prepare cellulose-rich aerogels directly from corn stalks. Green Chemistry, 2019, 21, 2699-2708.	9.0	32
43	Simple and safe synthesis of microporous aluminophosphate molecular sieves by ionothermal approach. AIChE Journal, 2008, 54, 280-288.	3.6	31
44	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
45	Aluminum Deposition from Lewis Acidic 1â€Butylâ€3â€Methylimidazolium Chloroaluminate Ionic Liquid ([Bmim]Cl/AlCl₃) Modified with Methyl Nicotinate. ChemElectroChem, 2015, 2, 1794-1798.	3.4	29
46	Ion-Exchange Resins for Efficient Removal of Colorants in Bis(hydroxyethyl) Terephthalate. ACS Omega, 2021, 6, 12351-12360.	3.5	27
47	Chlorine-free alternatives to the synthesis of ionic liquids for biomass processing. Pure and Applied Chemistry, 2012, 84, 745-754.	1.9	26
48	One-step preparation of an antibacterial chitin/Zn composite from shrimp shells using urea-Zn(OAc)₂Â·2H₂O aqueous solution. Green Chemistry, 2018, 20, 2212-2217.	9.0	24
49	A piperidinium-based ionic liquid electrolyte to enhance the electrochemical properties of LiFePO4 battery. Ionics, 2015, 21, 2109-2117.	2.4	21
50	Electrodeposition of Al from chloroaluminate ionic liquids with different cations. Ionics, 2017, 23, 2449-2455.	2.4	19
51	Triethylbutylammonium bis(trifluoromethanesulphonyl)imide ionic liquid as an effective electrolyte additive for Li-ion batteries. Ionics, 2013, 19, 887-894.	2.4	18
52	Nanoscale Observation of Microfibril Swelling and Dissolution in Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2018, 6, 909-917.	6.7	18
53	A renewable co-solvent promoting the selective removal of lignin by increasing the total number of hydrogen bonds. Green Chemistry, 2020, 22, 6393-6403.	9.0	18
54	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.	3.7	16

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55	Direct conversion of cellulose to sorbitol via an enhanced pretreatment with ionic liquids. Journal of Chemical Technology and Biotechnology, 2018, 93, 2617-2624.	3.2	15
56	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.	1.2	15
57	Metal-free and mild photo-thermal synergism in ionic liquids for lignin C_{Î±}â€“C_{Î²} bond cleavage to provide aldehydes. Green Chemistry, 2021, 23, 5524-5534.	9.0	15
58	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
59	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
60	Physicochemical Properties of Various 2-Hydroxyethylammonium Sulfonate -Based Protic Ionic Liquids and Their Potential Application in Hydrodeoxygenation. Frontiers in Chemistry, 2019, 7, 196.	3.6	14
61	Conversion of bis(2-hydroxyethylene terephthalate) into 1,4-cyclohexanedimethanol by selective hydrogenation using RuPtSn/Al₂O₃. RSC Advances, 2016, 6, 48737-48744.	3.6	13
62	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.	1.8	12
63	High Aluminum Content Beta Zeolite as an Active Lewis Acid Catalyst for Î³-Valerolactone Decarboxylation. Industrial & Engineering Chemistry Research, 2019, 58, 11841-11848.	3.7	12
64	Catalytic Pyrolysis of Poly(ethylene terephthalate) with Molybdenum Oxides for the Production of Olefins and Terephthalic Acid. Industrial & Engineering Chemistry Research, 2022, 61, 5054-5065.	3.7	11
65	Rheological properties of cotton pulp cellulose dissolved in 1â€butylâ€3â€methylimidazolium chloride solutions. Polymer Engineering and Science, 2011, 51, 2381-2386.	3.1	10
66	Periodicity and map for discovery of new ionic liquids. Science in China Series B: Chemistry, 2006, 49, 103-115.	0.8	9
67	The molecular mechanism study of insulin on proliferation and differentiation of osteoblasts under high glucose conditions. Cell Biochemistry and Function, 2019, 37, 385-394.	2.9	9
68	Adsorption Thermodynamics and Kinetics of Resin for Metal Impurities in Bis(2-hydroxyethyl) Terephthalate. Polymers, 2020, 12, 2866.	4.5	9
69	Rapid alcoholysis of PET enhanced by its swelling under high temperature. Journal of Environmental Chemical Engineering, 2022, 10, 107823.	6.7	9
70	Enhanced delignification of cornstalk by employing superbase TBD in ionic liquids. RSC Advances, 2014, 4, 27430-27438.	3.6	8
71	Selective Deoxygenation of Lignin-Derived Phenols and Dimeric Ethers with Protic Ionic Liquids. Industrial & Engineering Chemistry Research, 2020, 59, 4864-4871.	3.7	8
72	Optimization of Poly(ethylene terephthalate) Fiber Degradation by Response Surface Methodology Using an Amino Acid Ionic Liquid Catalyst. ACS Engineering Au, 2022, 2, 350-359.	5.1	8

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73	Weak Bonds Joint Effects Catalyze the Cleavage of Strong CâC Bond of Ligninâ€Inspired Compounds and Lignin in Air by Ionic Liquids. ChemSusChem, 2020, 13, 5945-5953.	6.8	7
74	An effective twoâ€step ionic liquids method for cornstalk pretreatment. Journal of Chemical Technology and Biotechnology, 2015, 90, 2057-2065.	3.2	6
75	Preparation of the Catalytic Chitin/Zn Composite by Combined Ionic Liquidâ€“Inorganic Salt Aqueous Solution from Shrimp Shells. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	6
76	The molecular mechanism study of insulin in promoting wound healing under highâ€glucose conditions. Journal of Cellular Biochemistry, 2019, 120, 16244-16253.	2.6	6
77	Recycling of full components of polyester/cotton blends catalyzed by betaine-based deep eutectic solvents. Journal of Environmental Chemical Engineering, 2022, 10, 107512.	6.7	6
78	Separation of chitin from shrimp shells enabled by transition metal salt aqueous solution and ionic liquid. Chinese Journal of Chemical Engineering, 2023, 53, 133-141.	3.5	5
79	Synthesis, Characterisation and Magnetic Behaviour of Ionic Metalloporphyrins: Metalâ€“Tetrakis(N-Octyl-4-Pyridinium)â€“Porphyrins with Tetrabromoferrate(III) Anions. Journal of Chemical Research, 2013, 37, 445-450.	1.3	1
80	A techno-economic analysis of bio-gasoline production from corn stover via catalytic conversion. Clean Technologies and Environmental Policy, 0, , 1.	4.1	1
81	Three international conferences on ionic liquids held in Beijing in 2012. Science China Chemistry, 2012, 55, 1695-1696.	8.2	0
82	Electrodeposition of Aluminum in Ionic Liquids. , 2019, , .		0