

CITATION REPORT

List of articles citing

Can ionic liquids dissolve wood? Processing and analysis of lignocellulosic materials with 1-n-butyl-3-methylimidazolium chloride

DOI: 10.1039/b607614a
Green Chemistry, 2007, 9, 63-69.

Source: <https://exaly.com/paper-pdf/41995825/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
720	Thorough chemical modification of wood-based lignocellulosic materials in ionic liquids. 2007 , 8, 3740-8		167
719	Ionic Liquid as a Green Solvent for Lignin. 2007 , 27, 23-33		440
718	Room-temperature ionic liquids: slow dynamics, viscosity, and the red edge effect. 2007 , 40, 1097-105		181
717	Trichoderma reesei derived cellulase activity in three N,N-dimethylethanolammonium alkylcarboxylate ionic liquids. 2007 ,		2
716	Efficient Acid-Catalyzed Hydrolysis of Cellulose in Ionic Liquid. 2007 , 349, 1847-1850		314
715	Treatment of tissue paper containing radioactive waste and electrochemical recovery of valuables using ionic liquids. 2007 , 53, 1911-1919		27
714	Dissolution of wood in ionic liquids. 2007 , 55, 9142-8		781
713	The second evolution of ionic liquids: from solvents and separations to advanced materials--energetic examples from the ionic liquid cookbook. 2007 , 40, 1182-92		418
712	Solution-state 2D NMR of Ball-milled Plant Cell Wall Gels in DMSO-d 6. 2008 , 1, 56-66		218
711	Characterization of nonderivatized plant cell walls using high-resolution solution-state NMR spectroscopy. 2008 , 46, 508-17		151
710	Use of ionic liquids for the efficient utilization of lignocellulosic materials. 2008 , 83, 777-779		79
709	Quantitative analysis of alpha-D-glucose in an ionic liquid by using infrared spectroscopy. 2008 , 9, 1317-22		47
708	Depolymerization of cellulose using solid catalysts in ionic liquids. 2008 , 47, 8047-50		465
707	Depolymerization of Cellulose Using Solid Catalysts in Ionic Liquids. 2008 , 120, 8167-8170		93
706	What could be greener than composites made from polysaccharides?. 2008 , 74, 759-762		64
705	Acid in ionic liquid: An efficient system for hydrolysis of lignocellulose. <i>Green Chemistry</i> , 2008 , 10, 177-182		382
704	Solvation and aggregation of n,n'-dialkylimidazolium ionic liquids: a multinuclear NMR spectroscopy and molecular dynamics simulation study. 2008 , 112, 7363-9		82

703	Ionic liquids: new targets and media for alpha-amino acid and peptide chemistry. 2008 , 108, 5035-60	242
702	Solvation of carbohydrates in n,n'-dialkylimidazolium ionic liquids: a multinuclear NMR spectroscopy study. 2008 , 112, 11071-8	171
701	A solventless route to 1-ethyl-3-methylimidazolium fluoride hydrofluoride, [C2mim][F] x xHF. 2008 , 73, 5582-4	33
700	Designing enzyme-compatible ionic liquids that can dissolve carbohydrates. <i>Green Chemistry</i> , 2008 , 10, 696	10 400
699	Ionic Liquids in the Preparation of Biopolymer Composite Materials. 2009 , 16, 129-139	4
698	Auflösung ligninhaltiger Biomasse in ionischen Flüssigkeiten. 2009 , 81, 1213-1213	
697	Acid-catalyzed conversion of sugars and furfurals in an ionic-liquid phase. 2009 , 2, 665-71	215
696	Acid hydrolysis of cellulose as the entry point into biorefinery schemes. 2009 , 2, 1096-107	540
695	Ionic liquids in the selective recovery of fat from composite foodstuffs. 2009 , 84, 1681-1687	17
694	Ionic liquid-mediated selective extraction of lignin from wood leading to enhanced enzymatic cellulose hydrolysis. 2009 , 102, 1368-76	754
693	Visualization of biomass solubilization and cellulose regeneration during ionic liquid pretreatment of switchgrass. 2009 , 104, 68-75	327
692	Structural characterization and tensile properties of Borassus fruit fibers. 2009 , 114, 603-611	90
691	Reactions of lignin model compounds in ionic liquids. 2009 , 33, 1122-1130	181
690	Biocatalysis for the production of carbohydrate esters. 2009 , 26, 109-16	96
689	Solution spinning of cellulose carbon nanotube composites using room temperature ionic liquids. 2009 , 50, 4577-4583	102
688	Investigation on solvation and protonation of meso-tetrakis(p-sulfonatophenyl)porphyrin in imidazolium-based ionic liquids by spectroscopic methods. 2009 , 74, 502-8	9
687	High-throughput screening for ionic liquids dissolving (ligno-)cellulose. 2009 , 100, 2580-7	574
686	Design of solid catalysts for the conversion of biomass. 2009 , 2, 610	592

685	Kinetic model for the hydrolysis of lignocellulosic biomass in the ionic liquid, 1-ethyl-3-methyl-imidazolium chloride. <i>Green Chemistry</i> , 2009 , 11, 390	10	138
684	Homogeneous modification of cellulose in ionic liquid with succinic anhydride using N-bromosuccinimide as a catalyst. 2009 , 57, 1814-20		59
683	Ionic-Liquid-Phase Hydrolysis of Pine Wood. 2009 , 48, 1277-1286		133
682	Ionic liquids in biomass processing. 2010 , 290, 311-39		89
681	Determination of glucose and cellobiose dissolved in the ionic liquid 1-ethyl-3-methylimidazolium acetate using Fourier transform infrared spectroscopy. 2009 , 63, 1041-9		25
680	Energy applications of ionic liquids. 2009 , 2, 956		406
679	Extraction of lignin from lignocellulose at atmospheric pressure using alkylbenzenesulfonate ionic liquid. <i>Green Chemistry</i> , 2009 , 11, 339	10	355
678	Ionic-liquid-based method to determine the degree of esterification in cellulose fibers. 2009 , 134, 493-6		26
677	Perdeuterated pyridinium molten salt (ionic liquid) for direct dissolution and NMR analysis of plant cell walls. <i>Green Chemistry</i> , 2009 , 11, 1762	10	56
676	Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate. <i>Green Chemistry</i> , 2009 , 11, 646	10	817
675	Designing Imidazole-Based Ionic Liquids and Ionic Liquid Monomers for Emerging Technologies. 2009 , 49, 291-314		238
674	Biphasic liquid mixtures of ionic liquids and polyethylene glycols. 2009 , 11, 10916-22		66
673	Ionic liquids and their interaction with cellulose. 2009 , 109, 6712-28		1125
672	Chapter 9.4:Wood. <i>RSC Green Chemistry</i> , 2009 , 300-338	0.9	1
671	Task Specific Ionic Liquids for Cellulose Technology. 2009 , 38, 2-7		272
670	Alternative Methods for Cellulose Preparation for AMS Measurement. 2010 , 52, 1358-1370		76
669	Swelling and Dissolution of Cellulose. 2010 ,		
668	Transition metal catalyzed oxidation of Alcell lignin, soda lignin, and lignin model compounds in ionic liquids. <i>Green Chemistry</i> , 2010 , 12, 1225	10	139

667	Evaluation of the biocompatible ionic liquid 1-methyl-3-methylimidazolium dimethylphosphite pretreatment of corn cob for improved saccharification. 2010 , 87, 117-26	81
666	Liquid mixtures of ionic liquids and polymers as solvent systems. 2010 , 294, 7-14	54
665	Modeling of high-pressure vapor-liquid equilibrium in ionic liquids+gas systems using the PRSV equation of state. 2010 , 295, 9-16	29
664	Probing anion-cellulose interactions in imidazolium-based room temperature ionic liquids: a density functional study. 2010 , 345, 2201-5	45
663	Influence of reaction atmosphere on the liquefaction and depolymerization of wood in an ionic liquid, 1-ethyl-3-methylimidazolium chloride. 2010 , 56, 256-261	32
662	Catalytic production of hydroxymethylfurfural from sucrose using 1-methyl-3-octylimidazolium chloride ionic liquid. 2010 , 27, 930-935	34
661	Succinylation of cellulose catalyzed with iodine in ionic liquid. 2010 , 31, 363-369	52
660	Dissolution of lignocellulosic materials and its constituents using ionic liquids—A review. 2010 , 32, 175-201	449
659	Reductive splitting of cellulose in the ionic liquid 1-butyl-3-methylimidazolium chloride. 2010 , 3, 91-6	55
658	Cleaving the β -O-4 bonds of lignin model compounds in an acidic ionic liquid, 1-H-3-methylimidazolium chloride: an optional strategy for the degradation of lignin. 2010 , 3, 1078-84	140
657	Rapid determination of lignin content via direct dissolution and ^1H NMR analysis of plant cell walls. 2010 , 3, 1285-9	20
656	Natural Fiber Welding. 2010 , 295, 425-430	31
655	Pretreatment of rice straw with ammonia and ionic liquid for lignocellulose conversion to fermentable sugars. 2010 , 101, 7432-8	222
654	Extraction of organic compounds with room temperature ionic liquids. 2010 , 1217, 2268-86	392
653	Enzymatic hydrolysis of cellulose dissolved in N-methyl morpholine oxide/water solutions. 2010 , 101, 4965-70	31
652	Hemicelluloses for fuel ethanol: A review. 2010 , 101, 4775-800	1047
651	A biorefinery processing perspective: treatment of lignocellulosic materials for the production of value-added products. 2010 , 101, 8915-22	616
650	Thermoplastic starch plasticized by an ionic liquid. 2010 , 82, 256-263	108

649	Synthesis, regulation and utilization of lignocellulosic biomass. 2010 , 8, 244-62		80
648	The Application of Ionic Liquids in Dissolution and Separation of Lignocellulose. 2010 ,		2
647	Recovery of cellulose and xylan liquefied in ionic liquids by precipitation in anti-solvents. 2010 , 64,		18
646	Liquefaction behavior of Western red cedar and Japanese beech in the ionic liquid 1-ethyl-3-methylimidazolium chloride. 2010 , 64,		18
645	Dissolution or extraction of crustacean shells using ionic liquids to obtain high molecular weight purified chitin and direct production of chitin films and fibers. <i>Green Chemistry</i> , 2010 , 12, 968	10	320
644	Effects of anionic structure and lithium salts addition on the dissolution of cellulose in 1-butyl-3-methylimidazolium-based ionic liquid solvent systems. <i>Green Chemistry</i> , 2010 , 12, 268-275	10	316
643	Solubility of bio-sourced feedstocks in green solvents. <i>Green Chemistry</i> , 2010 , 12, 1648	10	42
642	Ionic Liquid-Water Mixtures: Enhanced Kw for Efficient Cellulosic Biomass Conversion. 2010 , 24, 2410-2417		131
641	Enzyme-catalyzed hydrolysis of cellulose in ionic liquids: a green approach toward the production of biofuels. 2010 , 114, 8221-7		113
640	Synthesis and applications of ionic liquids derived from natural sugars. 2010 , 295, 177-95		38
639	The effect of the ionic liquid anion in the pretreatment of pine wood chips. <i>Green Chemistry</i> , 2010 , 12, 672	10	273
638	Lignin extraction from straw by ionic liquids and enzymatic hydrolysis of the cellulosic residues. 2010 , 58, 2915-22		242
637	Ionic liquid solvent properties as predictors of lignocellulose pretreatment efficacy. <i>Green Chemistry</i> , 2010 , 12, 1967	10	255
636	Homogeneous esterification of xylan-rich hemicelluloses with maleic anhydride in ionic liquid. 2010 , 11, 3519-24		74
635	Solubility of Carbohydrates in Ionic Liquids. 2010 , 24, 737-745		422
634	Factors Affecting Wood Dissolution and Regeneration of Ionic Liquids. 2010 , 49, 2477-2484		141
633	Isolation of cellulolytic enzyme lignin from wood preswollen/dissolved in dimethyl sulfoxide/n-methylimidazole. 2010 , 58, 3446-50		48
632	Understanding the impact of ionic liquid pretreatment on eucalyptus. 2010 , 1, 33-46		122

631	Sustainable chemistry: imidazolium salts in biomass conversion and CO ₂ fixation. 2010 , 3, 408-417		143
630	Understanding the interactions of cellulose with ionic liquids: a molecular dynamics study. 2010 , 114, 4293-301		269
629	Homogeneous esterification of poplar wood in an ionic liquid under mild conditions: characterization and properties. 2010 , 58, 11302-10		29
628	The catalytic valorization of lignin for the production of renewable chemicals. 2010 , 110, 3552-99		3089
627	Opportunities with Wood Dissolved in Ionic Liquids. 2010 , 343-363		1
626	Solution-state 2D NMR of ball-milled plant cell wall gels in DMSO-d(6)/pyridine-d(5). 2010 , 8, 576-91		473
625	Ionic liquid pretreatment of poplar wood at room temperature: swelling and incorporation of nanoparticles. 2010 , 2, 2198-205		46
624	Dissolution of cork biopolymers in biocompatible ionic liquids. <i>Green Chemistry</i> , 2010 , 12, 367	10	113
623	Effect of Enzymatic Treatment on Solubility of Cellulose in 7.6%NaOH-Water and Ionic Liquid. 2010 , 213-226		1
622	Catalytic production of hydrogen from glucose and other carbohydrates under exceptionally mild reaction conditions. <i>Green Chemistry</i> , 2010 , 12, 1150	10	50
621	Eco-efficiency Analysis of an Industrially Implemented Ionic Liquid-based Process [the BASF BASIL Process]. 2010 , 299		1
620	Extraction of polysaccharides from bran with phosphonate or phosphinate-derived ionic liquids under short mixing time and low temperature. <i>Green Chemistry</i> , 2010 , 12, 1274	10	137
619	Dissolution, regeneration and ion-gel formation of agarose in room-temperature ionic liquids. <i>Green Chemistry</i> , 2010 , 12, 1029	10	70
618	Hydrogenolysis without hydrogen gas: hydrogen loaded palladium electrodes by electrolysis of H[NTf ₂] in a room temperature ionic liquid. <i>Green Chemistry</i> , 2010 , 12, 1926	10	10
617	Cellulose Dissolution and Processing with Ionic Liquids. 2010 , 123		
616	Cellulose conversion into alkylglycosides in the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Green Chemistry</i> , 2010 , 12, 1790	10	44
615	Effects of reaction conditions on the acid-catalyzed hydrolysis of miscanthus dissolved in an ionic liquid. <i>Green Chemistry</i> , 2011 , 13, 1467	10	31
614	Composite fibers spun directly from solutions of raw lignocellulosic biomass dissolved in ionic liquids. <i>Green Chemistry</i> , 2011 , 13, 1158	10	54

613	Green electrochemical approach for delignification of wheat straw in second-generation bioethanol production. 2011 , 4, 551-557		28
612	Exploring new strategies for cellulosic biofuels production. 2011 , 4, 3820		74
611	Stokes shift dynamics in (ionic liquid + polar solvent) binary mixtures: composition dependence. 2011 , 115, 4011-24		46
610	Heteronuclear single-quantum coherence nuclear magnetic resonance (HSQC NMR) characterization of acetylated fir (<i>Abies sachalinensis</i> MAST) wood regenerated from ionic liquid. 2011 , 59, 5382-9		47
609	Glycoside hydrolase activities of thermophilic bacterial consortia adapted to switchgrass. 2011 , 77, 5804-12		91
608	Reaction of elemental chalcogens with imidazolium acetates to yield imidazole-2-chalcogenones: direct evidence for ionic liquids as proto-carbenes. 2011 , 47, 3222-4		165
607	Thermophysical Characterization of Ionic Liquids Able To Dissolve Biomass. 2011 , 56, 4813-4822		254
606	Study on Dissolution and Regeneration of Poplar Wood in Imidazolium-Based Ionic Liquids. 2011 , 31, 89-102		20
605	Modeling interactions between lignocellulose and ionic liquids using DFT-D. 2011 , 13, 11393-401		93
604	A facile method for the recovery of ionic liquid and lignin from biomass pretreatment. <i>Green Chemistry</i> , 2011 , 13, 3255	10	103
603	Rapid dissolution of lignocellulosic biomass in ionic liquids using temperatures above the glass transition of lignin. <i>Green Chemistry</i> , 2011 , 13, 2038	10	177
602	Synthesis and characterization of birch wood xylan succinoylated in 1-n-butyl-3-methylimidazolium chloride. 2011 , 2, 2010		26
601	Viscosities of Acetate or Chloride-Based Ionic Liquids and Some of Their Mixtures with Water or Other Common Solvents. 2011 , 56, 31-34		191
600	Identification of a haloalkaliphilic and thermostable cellulase with improved ionic liquid tolerance. <i>Green Chemistry</i> , 2011 , 13, 2083	10	93
599	The effect of ionic liquid cation and anion combinations on the macromolecular structure of lignins. <i>Green Chemistry</i> , 2011 , 13, 3375	10	118
598	Molecular dynamics study of polysaccharides in binary solvent mixtures of an ionic liquid and water. 2011 , 115, 10251-8		71
597	Ionic liquids as media for biomass processing: opportunities and restrictions. 2011 , 65,		18
596	Fractionation of bagasse into cellulose, hemicelluloses, and lignin with ionic liquid treatment followed by alkaline extraction. 2011 , 59, 8691-701		145

595	Ionic liquids in the biorefinery: a critical assessment of their potential. 2011 , 4, 19-32	156
594	Fractionation of Lignocellulosic Materials with Ionic Liquids. 1. Effect of Mechanical Treatment. 2011 , 50, 12349-12357	28
593	Comparative cradle-to-gate life cycle assessments of cellulose dissolution with 1-butyl-3-methylimidazolium chloride and N-methyl-morpholine-N-oxide. <i>Green Chemistry</i> , 2011 , 13, 367-375	61
592	Synthesis of Ionic Liquids, Solubility for Wood and Its Application for Graft Copolymer with Acrylamide. 2011 ,	
591	Enrichment, isolation and characterization of fungi tolerant to 1-ethyl-3-methylimidazolium acetate. 2011 , 110, 1023-31	32
590	Structural effects of polyethers and ionic liquids in their binary mixtures on lower critical solution temperature liquid-liquid phase separation. 2011 , 43, 242-248	68
589	Structural changes in switchgrass lignin and hemicelluloses during pretreatments by NMR analysis. 2011 , 96, 2002-2009	86
588	Lipase mediated synthesis of sugar fatty acid esters. 2011 , 46, 2079-2090	160
587	Homogeneous lauroylation of ball-milled bamboo in ionic liquid for bio-based composites production: Part I: Modification and characterization. 2011 , 34, 1491-1501	28
586	Solubility and rate of dissolution for Miscanthus in hydrophilic ionic liquids. 2011 , 309, 89-96	41
585	Addition of ammonia and/or oxygen to an ionic liquid for delignification of miscanthus. 2011 , 102, 7946-52	21
584	Cellulose extraction from wood chip in an ionic liquid 1-allyl-3-methylimidazolium chloride (AmimCl). 2011 , 102, 7959-65	144
583	Optimization of processing conditions for the pretreatment of wheat straw using aqueous ionic liquid. 2011 , 102, 8003-10	104
582	Structural features of lignin macromolecules extracted with ionic liquid from poplar wood. 2011 , 102, 9020-5	127
581	SO ₃ H-functionalized ionic liquid: efficient catalyst for bagasse liquefaction. 2011 , 102, 10114-23	59
580	Homogeneous synthesis of hemicellulosic succinates with high degree of substitution in ionic liquid. 2011 , 86, 1768-1774	29
579	The effects of acetate anion on cellulose dissolution and reaction in imidazolium ionic liquids. 2011 , 346, 1985-90	50
578	Separation of pulp and inorganic materials from paper sludge using ionic liquid and centrifugation. 2011 , 173, 129-134	13

577	Application of ionic liquids based microwave-assisted simultaneous extraction of carnosic acid, rosmarinic acid and essential oil from <i>Rosmarinus officinalis</i> . 2011 , 1218, 8480-9		127
576	Ionogels, ionic liquid based hybrid materials. 2011 , 40, 907-25		873
575	Ionic liquid pretreatment of lignocellulosic biomass with ionic liquid/water mixtures. <i>Green Chemistry</i> , 2011 , 13, 2489	10	376
574	Where are ionic liquid strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?. 2011 , 47, 1405-21		362
573	Biomass deconstruction to sugars. 2011 , 6, 1086-102		124
572	Recent Advances in the Catalytic Conversion of Cellulose. 2011 , 3, 82-94		462
571	Recent advances in ionic liquid catalysis. <i>Green Chemistry</i> , 2011 , 13, 2619	10	535
570	Ionic Liquids as Environmentally Friendly Solvents in Macromolecules Chemistry and Technology, Part II. 2011 , 19, 485-517		19
569	Dissolution of fir powder and its graft copolymer in ionic liquid. 2011 , 69, 383-389		6
568	Preparation of synthetic wood composites using ionic liquids. 2011 , 45, 719-733		41
567	Alkyl-methylimidazolium ionic liquids affect the growth and fermentative metabolism of <i>Clostridium</i> sp. 2011 , 102, 6573-8		41
566	Ultrasound-assisted dissolution of cellulose in ionic liquid. 2011 , 86, 672-677		129
565	Photoluminescent synthetic wood fibers from an ionic liquid via electrospinning. 2011 , 19, 317-321		16
564	Biocompatible charcoal composites prepared by ionic liquids for drug detoxification. 2011 , 19, 734-738		5
563	Use of polyoxometalate catalysts in ionic liquids to enhance the dissolution and delignification of woody biomass. 2011 , 4, 65-73		63
562	Synthesis of 5-(hydroxymethyl)furfural in ionic liquids: paving the way to renewable chemicals. 2011 , 4, 451-8		211
561	Ionic liquid pretreatment of cellulosic biomass: enzymatic hydrolysis and ionic liquid recycle. 2011 , 108, 511-20		261
560	Room temperature ionic liquids as emerging solvents for the pretreatment of lignocellulosic biomass. 2011 , 108, 1229-45		312

559	Facile pretreatment of lignocellulosic biomass at high loadings in room temperature ionic liquids. 2011 , 108, 2865-75	116
558	Analyzing cellulose degree of polymerization and its relevancy to cellulosic ethanol. 2011 , 5, 215-225	168
557	Separation and recovery of the constituents from lignocellulosic biomass by using ionic liquids and acetic acid as co-solvents for mild hydrolysis. 2011 , 50, 196-199	55
556	Reversible swelling of the cell wall of poplar biomass by ionic liquid at room temperature. 2011 , 102, 4518-23	46
555	Ionic liquids: Media for starch dissolution, plasticization and modification. 2011 , 86, 424-428	126
554	HSQC (heteronuclear single quantum coherence) $^{13}\text{C}/^1\text{H}$ correlation spectra of whole biomass in perdeuterated pyridinium chloride/DMSO system: An effective tool for evaluating pretreatment. 2011 , 90, 2836-2842	84
553	Influence of ionic liquids on the surface properties of poplar veneers. 2011 , 257, 6220-6225	31
552	New Bipolar Green Host Materials Containing Benzimidazole-Carbazole Moiety in Phosphorescent OLEDs. 2011 , 32, 841-846	9
551	Disintegration and dissolution kinetics of wood chips in ionic liquids. 2011 , 65,	52
550	Chemical and physicochemical pretreatment of lignocellulosic biomass: a review. 2011 , 2011, 787532	518
549	Increased Dissolution of Lignocellulosic Biomass in Ionic Liquid 1-Butyl-3-Methylimidazolium Chloride at High Temperature. 2012 , 535-537, 2375-2380	
548	Application of ionic liquids in the microwave-assisted extraction of proanthocyanidins from Larix gmelini bark. 2012 , 13, 5163-78	51
547	Ionic Liquids as (Co-)Solvents for Hydrolytic Enzymes. 2012 , 151-227	5
546	Dissolution and acetylation of ball-milled birch (<i>Betula platyphylla</i>) and bamboo (<i>Phyllostachys nigra</i>) in the ionic liquid [Bmim]Cl for HSQC NMR analysis. 2012 , 66, 607-614	31
545	Liquefaction of Woody Biomass by Ionic Liquid. 2012 , 48, 211-215	
544	Ionic Liquids in Biotransformations: Motivation and Development. 2012 , 73-102	
543	Cradle to grave: How green are ionic liquids?. 2012 , 1, 193-206	11
542	Separation of Hemicellulose by Hot-Water Extraction from Woody Biomass. 2012 , 674-729	

541	Reinforced magnetic cellulose fiber from ionic liquid solution. 2012 , 1, 225-236		13
540	Effect of ionic liquid pretreatment on the structure of hemicelluloses from corncob. 2012 , 60, 11120-7		28
539	Different ionic liquids favor different lignocellulosic biomass particle sizes during pretreatment to function efficiently. <i>Green Chemistry</i> , 2012 , 14, 1896	10	39
538	Pretreatment of fibre sludge in ionic liquids followed by enzyme and acid catalysed hydrolysis. 2012 , 196, 11-15		10
537	Enzymatic hydrolysates of corn stover pretreated by a N-methylpyrrolidone/ionic liquid solution for microbial lipid production. <i>Green Chemistry</i> , 2012 , 14, 1202	10	59
536	References. 2012 , 231-284		
535	Simulations reveal conformational changes of methylhydroxyl groups during dissolution of cellulose in ionic liquid 1-ethyl-3-methylimidazolium acetate. 2012 , 116, 8131-8		50
534	A cyclic process for full enzymatic saccharification of pretreated cellulose with full recovery and reuse of the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Green Chemistry</i> , 2012 , 14, 2631	10	41
533	Ionic liquids: Efficient solvent and medium for the transformation of renewable lignocellulose. 2012 , 55, 1500-1508		19
532	Ionic Liquids for Lignin Processing: Dissolution, Isolation, and Conversion. 2012 , 65, 1465		80
531	Effect of Ionic Liquid Treatment on Pyrolysis Products from Bamboo. 2012 , 51, 2280-2289		49
530	ILs-based microwave-assisted extraction coupled with aqueous two-phase for the extraction of useful compounds from Chinese medicine. 2012 , 137, 4076-85		33
529	Brown algae hydrolysis in 1-n-butyl-3-methylimidazolium chloride with mineral acid catalyst system. 2012 , 118, 545-52		25
528	Dehydration of carbohydrates to 2-furaldehydes in ionic liquids by catalysis with ion exchange resins. 2012 , 27, 88-91		39
527	Sugarcane bagasse pretreatment using three imidazolium-based ionic liquids; mass balances and enzyme kinetics. 2012 , 5, 62		56
526	Celluloses and Polyoses/Hemicelluloses. 2012 , 83-152		25
525	Lignin as Building Unit for Polymers. 2012 , 255-265		21
524	Electronic structure, lattice energies and Born exponents for alkali halides from first principles. 2012 , 2, 012131		26

523	ATR-FTIR Measurement of Biomass Components in Phosphonium Ionic Liquids. 2012 , 32, 175-186		10
522	Agarose processing in protic and mixed protic-protic ionic liquids: dissolution, regeneration and high conductivity, high strength ionogels. <i>Green Chemistry</i> , 2012 , 14, 2831	10	48
521	Single-pot extraction-analysis of dyed wool fibers with ionic liquids. 2012 , 84, 9169-75		17
520	Dialkyl phosphate-related ionic liquids as selective solvents for xylan. 2012 , 13, 1973-80		35
519	One-Pot Conversion of Sugars and Lignin in Ionic Liquid and Recycling of Ionic Liquid. 2012 , 51, 3452-3457		40
518	Biocompatible magnetic cellulose-chitosan hybrid gel microspheres reconstituted from ionic liquids for enzyme immobilization. 2012 , 22, 15085		90
517	Bioprocessing for biofuels. 2012 , 23, 390-5		65
516	Dissolution of <i>Pinus radiata</i> and <i>Eucalyptus globulus</i> woods in ionic liquids under microwave radiation: Lignin regeneration and characterization. 2012 , 97, 115-122		64
515	Developing criteria for the recovery of ionic liquids from aqueous phase by adsorption with activated carbon. 2012 , 97, 11-19		69
514	Deconstruction of the Hemicellulose Fraction from Lignocellulosic Materials into Simple Sugars. 2012 , 3-37		9
513	Application of Ionic Liquids in the Conversion of Native Lignocellulosic Biomass to Biofuels. 2012 , 145-186		1
512	Chlorine-free alternatives to the synthesis of ionic liquids for biomass processing. 2012 , 84, 745-754		21
511	Functional galactomannan platform from convenient esterification in imidazolium-based ionic liquids. 2012 , 3, 538-546		18
510	Delignification of <i>Miscanthus</i> by Extraction. 2012 , 47, 370-376		6
509	Adsorption of heavy metals by a porous bioadsorbent from lignocellulosic biomass reconstructed in an ionic liquid. 2012 , 60, 5621-8		62
508	Suberin isolation from cork using ionic liquids: characterisation of ensuing products. 2012 , 36, 2014		45
507	Treating birch wood with a switchable 1,8-diazabicyclo-[5.4.0]-undec-7-ene-glycerol carbonate ionic liquid. 2012 , 66, 809-815		24
506	DISSOLUTION OF HOLOCELLULOSE IN IONIC LIQUID ASSISTED WITH BALL-MILLING PRETREATMENT AND ULTRASOUND IRRADIATION. 2012 , 7,		5

505	Ionic liquid-functionalized biochar sulfonic acid as a biomimetic catalyst for hydrolysis of cellulose and bamboo under microwave irradiation. <i>Green Chemistry</i> , 2012 , 14, 1928	10	58
504	Regenerated cellulose membrane prepared with ionic liquid 1-butyl-3-methylimidazolium chloride as solvent using wheat straw. 2012 , 87, 1634-1640		42
503	Synthesis of glucose esters from cellulose in ionic liquids. 2012 , 66,		8
502	Recent Trends in Valorization of Lignocellulose to Biofuel. 2012 , 381-409		6
501	Long-Term Stability, Regeneration and Recycling of Imidazolium-based Ionic Liquids. 2012 , 84, n/a-n/a		6
500	Dialkylimidazolium ionic liquids hydrolyze cellulose under mild conditions. 2012 , 5, 1542-8		33
499	Ionic liquid processing of cellulose. 2012 , 41, 1519-37		988
498	The changes of crystalline structure of cellulose during dissolution in 1-butyl-3-methylimidazolium chloride. 2012 , 19, 679-685		25
497	Solid biopolymer electrolytes based on all-cellulose composites prepared by partially dissolving cellulosic fibers in the ionic liquid 1-butyl-3-methylimidazolium chloride. 2012 , 47, 5978-5986		23
496	Prominent Roles of Impurities in Ionic Liquid for Catalytic Conversion of Carbohydrates. 2012 , 55, 33-37		28
495	Morphological changes in sugi (<i>Cryptomeria japonica</i>) wood after treatment with the ionic liquid, 1-ethyl-3-methylimidazolium chloride. 2012 , 58, 222-230		23
494	Quantitative determination of cellulose dissolved in 1-ethyl-3-methylimidazolium acetate using partial least squares regression on FTIR spectra. 2012 , 87, 1124-1130		30
493	Selective extraction of hemicelluloses from spruce using switchable ionic liquids. 2012 , 87, 2005-2011		65
492	Theoretical and experimental investigation on dissolution and regeneration of cellulose in ionic liquid. 2012 , 89, 7-16		82
491	Ionic liquids for biofuel production: Opportunities and challenges. 2012 , 92, 406-414		171
490	Comparison of lignin and cellulose solubilities in ionic liquids by COSMO-RS analysis and experimental validation. 2012 , 37, 155-163		74
489	Ionic liquid assisted enzymatic delignification of wood biomass: A new green and efficient approach for isolating of cellulose fibers. 2012 , 60, 156-160		74
488	Fermentation and purification of cellulase from a novel strain <i>Rhizopus stolonifer</i> var. <i>reflexus</i> TP-02. 2012 , 36, 366-372		11

487	Enhanced enzymatic saccharification of kenaf powder after ultrasonic pretreatment in ionic liquids at room temperature. 2012 , 103, 259-65	102
486	Activation of lignocellulosic biomass by ionic liquid for biorefinery fractionation. 2012 , 104, 701-7	57
485	Exploring the effect of different plant lignin content and composition on ionic liquid pretreatment efficiency and enzymatic saccharification of Eucalyptus globulus L. mutants. 2012 , 117, 352-9	76
484	Chemical composition and structural characterization of Napier grass fibers. 2012 , 67, 35-38	98
483	Simple purification of ionic liquid solvents by nanofiltration in biorefining of lignocellulosic substrates. 2012 , 405-406, 1-10	38
482	Imidazolium based ionic liquids affecting functional groups and oxidation properties of bituminous coal. 2012 , 50, 1528-1534	76
481	Trends in bioconversion of lignocellulose: Biofuels, platform chemicals & biorefinery concept. 2012 , 38, 522-550	1045
480	Rheological properties of cellulose/ionic liquid/dimethylsulfoxide (DMSO) solutions. 2012 , 53, 2524-2531	87
479	Green and inexpensive choline-derived solvents for cellulose decrystallization. 2012 , 18, 1043-6	92
478	FTIR analysis of lignin regenerated from Pinus radiata and Eucalyptus globulus woods dissolved in imidazolium-based ionic liquids. 2012 , 87, 472-480	68
477	Use of ionic liquids for biocatalytic synthesis of sugar derivatives. 2012 , 87, 451-471	42
476	Pretreatment of corn stover by combining ionic liquid dissolution with alkali extraction. 2012 , 109, 84-91	41
475	Enhanced stability and activity of cellulase in an ionic liquid and the effect of pretreatment on cellulose hydrolysis. 2012 , 109, 434-43	61
474	Ionic liquid future solvent for the enhanced uses of wood biomass. 2012 , 70, 125-133	58
473	The effect of subcritical carbon dioxide on the dissolution of cellulose in the ionic liquid 1-ethyl-3-methylimidazolium acetate. 2012 , 19, 37-44	13
472	Effects of relative humidity and ionic liquids on the water content and glass transition of plasticized starch. 2013 , 97, 665-75	29
471	Influence of Aprotic Solvents on the Phase Behavior of Ionic Liquid Based Aqueous Biphasic Systems. 2013 , 58, 1535-1541	8
470	Pretreatment Techniques for Biofuels and Biorefineries. 2013 ,	25

469	On the solubility of wood in non-derivatising ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 2374	10	32
468	Pre-treatment of lignocellulosic biomass using ionic liquids: wheat straw fractionation. 2013 , 142, 198-208		217
467	Characterization of Cellulose regenerated from solutions of pine and eucalyptus woods in 1-allyl-3-methylimidazolium chloride. 2013 , 92, 1946-52		30
466	Physicochemical properties of starch dispersed in 1-allyl-3-methylimidazolium chloride. 2013 , 46, 197-204		6
465	Hydrolysis of cellulose catalyzed by sulfonated poly(styrene-co-divinylbenzene) in the ionic liquid 1-n-butyl-3-methylimidazolium bromide. 2013 , 116, 142-148		31
464	Novel pre-treatment and fractionation method for lignocellulosic biomass using ionic liquids. 2013 , 3, 16040		97
463	An efficient process for the saccharification of wood chips by combined ionic liquid pretreatment and enzymatic hydrolysis. 2013 , 146, 144-151		28
462	Enhancement of ionic liquid-aided fractionation of birchwood. Part 1: autohydrolysis pretreatment. 2013 , 3, 16365		43
461	Efficient separation and physico-chemical characterization of lignin from eucalyptus using ionic liquid/organic solvent and alkaline ethanol solvent. 2013 , 47, 277-285		42
460	Process optimization and performance evaluation on sequential ionic liquid dissolution-solid acid saccharification of sago waste. 2013 , 130, 1-7		17
459	Membrane-based recovery of glucose from enzymatic hydrolysis of ionic liquid pretreated cellulose. 2013 , 149, 58-64		47
458	Ionic Liquids as New Solvents for Textile Fiber Formation and Modification. 2013 , 36, 1823-1837		15
457	Homogeneous modification of sugarcane bagasse with maleic anhydride in 1-butyl-3-methylimidazolium chloride without any catalysts. 2013 , 46, 380-385		23
456	Task-specific ionic liquid [SBMIM]Cl in one-step dissolution and hydrolysis of fibre sludge. 2013 , 56, 432-436		7
455	Green Biomass Pretreatment for Biofuels Production. 2013 ,		8
454	On the nature of interactions between ionic liquids and small amino-acid-based biomolecules. 2013 , 14, 4044-64		55
453	Monitoring pine wood thermolysis under hydrogen atmosphere by in situ and ex situ techniques. 2013 , 100, 81-87		10
452	Zr(O)Cl ₂ catalyst for selective conversion of biorenewable carbohydrates and biopolymers to biofuel precursor 5-hydroxymethylfurfural in aqueous medium. 2013 , 111, 598-605		20

451	The direct and one-pot transformation of xylan into the biodegradable surfactants, alkyl xylosides, is aided by an ionic liquid. 2013 , 3, 19756		15
450	Homogenous mixing of ionic liquids: molecular dynamics simulations. 2013 , 15, 21077-83		35
449	Catalytic delignification of sugarcane bagasse in the presence of acidic ionic liquids. 2013 , 200, 99-105		59
448	Combined use of completely bio-derived cholinium ionic liquids and ultrasound irradiation for the pretreatment of lignocellulosic material to enhance enzymatic saccharification. 2013 , 215-216, 811-818		60
447	Cholinium carboxylate ionic liquids for pretreatment of lignocellulosic materials to enhance subsequent enzymatic saccharification. 2013 , 71, 25-29		60
446	Separation and recovery of cellulose from <i>Zoysia japonica</i> by 1-allyl-3-methylimidazolium chloride. 2013 , 92, 228-35		24
445	Deconstruction of lignocellulosic biomass with ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 550	10	1054
444	Biomass-binding peptides designed by molecular evolution for efficient degradation of cellulose in biomass by cellulase. <i>Green Chemistry</i> , 2013 , 15, 365	10	4
443	Investigations of novel nitrile-based ionic liquids as pre-treatment solvent for extraction of lignin from bamboo biomass. 2013 , 19, 207-214		52
442	Studies on the structural characterization of lignin, hemicelluloses and cellulose fractionated by ionic liquid followed by alkaline extraction from bamboo. 2013 , 43, 141-149		93
441	Effect of ionic liquid/organic solvent pretreatment on the enzymatic hydrolysis of corncob for bioethanol production. Part 1: Structural characterization of the lignins. 2013 , 43, 570-577		87
440	Preparation and characterization of transparent silk fibroin/cellulose blend films. 2013 , 54, 5035-5042		57
439	Preparation of microfibers from wood/ionic liquid solutions. 2013 , 92, 214-7		18
438	Effect of ionic liquid weight ratio on pretreatment of bamboo powder prior to enzymatic saccharification. 2013 , 128, 188-92		41
437	Enhanced hydrophobicity and thermal stability of hemicelluloses by butyrylation in [BMIM]Cl ionic liquid. 2013 , 45, 52-57		21
436	Synergistic benefits of ionic liquid and alkaline pretreatments of poplar wood. Part 1: effect of integrated pretreatment on enzymatic hydrolysis. 2013 , 144, 429-34		29
435	Effect of dimethyl sulfoxide on ionic liquid 1-ethyl-3-methylimidazolium acetate pretreatment of eucalyptus wood for enzymatic hydrolysis. 2013 , 140, 90-6		45
434	Studies on the dissolution of glucose in ionic liquids and extraction using the antisolvent method. 2013 , 47, 2809-16		37

433	Microwave-assisted ionic liquids treatment followed by hydro-distillation for the efficient isolation of essential oil from <i>Fructus forsythiae</i> seed. 2013 , 107, 228-237		53
432	Second-generation biofuels: why they are taking so long. 2013 , 2, 304-334		28
431	Pretreatment of Lignocellulosic Biomass Using Green Ionic Liquids. 2013 , 127-153		17
430	Cellulose-to-HMF conversion using crystalline mesoporous titania and zirconia nanocatalysts in ionic liquid systems. 2013 , 3, 2028-2034		109
429	Influence of acidic and alkaline aqueous regeneration on enzymatic digestibility of the cellulose fraction recovered from [amim]Cl-treated rice husk. 2013 , 128, 330-6		6
428	Selective hydrolysis of lignocelluloses from corn stalk in an ionic liquid. 2013 , 129, 472-479		4
427	Status and Perspective of Organic Solvent Based Pretreatment of Lignocellulosic Biomass for Enzymatic Saccharification. 2013 , 309-337		
426	Structure, dynamics, and activity of xylanase solvated in binary mixtures of ionic liquid and water. 2013 , 8, 1179-86		77
425	Economics of Pretreatment for Biological Processing. 2013 , 311-333		3
424	Separation of hemicellulose and cellulose from wood pulp by means of ionic liquid/cosolvent systems. 2013 , 14, 1741-50		94
423	A possible means of realizing a sacrifice-free three component separation of lignocellulose from wood biomass using an amino acid ionic liquid. <i>Green Chemistry</i> , 2013 , 15, 1863	10	53
422	Pervaporation recovery of [AMIM]Cl during wood dissolution; effect of [AMIM]Cl properties on the membrane performance. 2013 , 444, 9-15		3
421	Ionic liquids as a tool for lignocellulosic biomass fractionation. 2013 , 1, 3		158
420	Structural comparison and enhanced enzymatic hydrolysis of eucalyptus cellulose via pretreatment with different ionic liquids and catalysts. 2013 , 48, 844-852		31
419	Synthesis, Toxicity, and Biodegradation of Tunable Aryl Alkyl Ionic Liquids (TAAILs). <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 410-418	8.3	38
418	Reaction behavior of cellulose in an ionic liquid, 1-ethyl-3-methylimidazolium chloride. 2013 , 59, 221-228		29
417	The Synthesis, Regulation and Modification of Lignocellulosic Biomass as a Resource for Biofuels and Bioproducts. 2013 , 281-314		2
416	Sugarcane and Woody Biomass Pretreatments for Ethanol Production. 2013 ,		9

415	Relation between differential solubility of cellulose and lignin in ionic liquids and activity coefficients. 2013 , 3, 3453	44
414	Ionic liquid-supported solid-liquid extraction of bioactive alkaloids. II. Kinetics, modeling and mechanism of glaucine extraction from <i>Glaucium flavum</i> Cr. (Papaveraceae). 2013 , 103, 279-288	56
413	Structural and dynamic features of <i>Candida rugosa</i> lipase 1 in water, octane, toluene, and ionic liquids BMIM-PF6 and BMIM-NO3. 2013 , 117, 2662-70	49
412	Sweet-in-Green Systems Based on Sugars and Ionic Liquids: New Solubility Data and Thermodynamic Analysis. 2013 , 52, 18482-18491	20
411	Molecular weight distributions of acetylated lignocellulosic biomasses recovered from an ionic liquid system. 2013 , 67, 721-726	6
410	Dissolution of <i>Pinus radiata</i> and <i>Eucalyptus Globulus</i> Woods in 1-Allyl-3-methylimidazolium Chloride for Cellulose or Lignin Regeneration. 2013 , 52, 3628-3636	14
409	Morphological changes of Japanese beech treated with the ionic liquid, 1-ethyl-3-methylimidazolium chloride. 2013 , 59, 410-418	12
408	A Green Industrial revolution: Using chitin towards transformative technologies. 2013 , 85, 1693-1701	18
407	1-allyl-3-methylimidazolium chloride pretreatment of seaweed industrial waste for bioethanol conversion. 2013 , 5, 063111	3
406	Dissolution and acetylation of ball-milled lignocellulosic biomass in ionic liquids at room temperature: application to nuclear magnetic resonance analysis of cell-wall components. 2013 , 67, 25-32	22
405	Fire resistance of wood treated with various ionic liquids (ILs). 2013 , 67, 787-793	16
404	Enzymatic Hydrolysis of N-Methyl Morpholine N-oxide and Ionic Liquid-treated Cellulose: A Comparative Study. 2013 , 55, 235-246	1
403	Pretreatments of Lignocellulosic Biomass. 2013 , 299-350	
402	Coagulation of Chitin and Cellulose from 1-Ethyl-3-methylimidazolium Acetate Ionic-Liquid Solutions Using Carbon Dioxide. 2013 , 125, 12576-12579	16
401	Coagulation of chitin and cellulose from 1-ethyl-3-methylimidazolium acetate ionic-liquid solutions using carbon dioxide. 2013 , 52, 12350-3	50
400	Direct Dissolution of Cellulose: Background, Means and Applications. 2013 ,	28
399	Applications of Ionic Liquids in Lignin Chemistry. 2013 ,	7
398	Characterization of Hemicelluloses Obtained from Partially Delignified <i>Eucalyptus</i> Using Ionic Liquid Pretreatment. 2013 , 8,	13

397	Comparison Study of Different Ionic Liquid Pretreatments in Maximizing Total Reducing Sugars Recovery. 2013 , 9,	8
396	Microwave-Assisted Techniques (MATs); a Quick Way to Extract a Fragrance: A Review. 2013 , 8, 1934578X1300801	
395	Catalytic Role of Ionic Liquids for Dissolution and Degradation of Biomacromolecules. 2013 , 9,	10
394	An Integrated Process of Ionic Liquid Pretreatment and Enzymatic Hydrolysis of Lignocellulosic Biomass with Immobilised Cellulase. 2014 , 9,	12
393	Cellulose from Lignocellulosic Waste. 2014 , 1-33	6
392	Thermoplastic deformation of poplar wood plasticized by ionic liquids measured by a nonisothermal compression technique. 2014 , 68, 555-566	25
391	Catalytic Depolymerization of Microcrystalline Cellulose Accomplished in an Ionic Liquid. 2014 ,	
390	Dissolution of Biomass Using Ionic Liquids. 2014 , 79-105	17
389	Lignocellulosic feedstock conversion, inhibitor detoxification and cellulosic hydrolysis \square review. 2014 , 5, 633-649	28
388	Reaction behavior of cellulose in various pyridinium-based ionic liquids. 2014 , 60, 438-445	17
387	On the prevalence of side reactions during ionosolv pulping of Norway spruce with 1-butyl-3-methylimidazolium acesulfamate. 2014 , 21, 4607-4619	3
386	Development of Thermochemical and Biochemical Technologies for Biorefineries. 2014 , 457-488	6
385	Influence of lignin on rheological behaviors and electrospinning of polysaccharide solution. 2014 , 131, n/a-n/a	7
384	A sustainable process for enzymatic saccharification of ionic liquid-pretreated cellulosic materials. 2014 , 3,	2
383	Enhanced mass transfer upon switchable ionic liquid mediated wood fractionation. 2014 , 55, 109-115	15
382	Biochar sulfonic acid immobilized chlorozincate ionic liquid: an efficiently biomimetic and reusable catalyst for hydrolysis of cellulose and bamboo under microwave irradiation. 2014 , 21, 1227-1237	32
381	Comparative study of morphological changes in hardwoods treated with the ionic liquid, 1-ethyl-3-methylimidazolium chloride. 2014 , 60, 152-159	15
380	Effect of methylimidazole on cellulose/ionic liquid solutions and regenerated material therefrom. 2014 , 49, 3423-3433	27

379	Rheological behaviors of cellulose in 1-ethyl-3-methylimidazolium chloride/dimethylsulfoxide. 2014 , 110, 292-7		32
378	Effects of ionic liquid on the rheological properties of wood flour/high density polyethylene composites. 2014 , 61, 134-140		29
377	Bionanocomposites of regenerated cellulose/zeolite prepared using environmentally benign ionic liquid solvent. 2014 , 106, 326-34		40
376	A roadmap to uranium ionic liquids: anti-crystal engineering. 2014 , 20, 6482-93		18
375	Enhanced conversion of carbohydrates to the platform chemical 5-hydroxymethylfurfural using designer ionic liquids. 2014 , 7, 1647-54		60
374	Production of Biofuels and Chemicals with Ionic Liquids. 2014 ,		26
373	Competitive pi interactions and hydrogen bonding within imidazolium ionic liquids. 2014 , 16, 3238-53		143
372	Mixing ionic liquids [simple mixtures] or [double salts]. <i>Green Chemistry</i> , 2014 , 16, 2051	10	260
371	Vaporisation and thermal decomposition of dialkylimidazolium halide ion ionic liquids. 2014 , 16, 1339-53		38
370	Review: Oxidation of Lignin Using Ionic Liquids—An Innovative Strategy To Produce Renewable Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 322-339	8.3	245
369	Recent trends in (ligno)cellulose dissolution using neoteric solvents: switchable, distillable and bio-based ionic liquids. 2014 , 89, 11-18		99
368	Metathesis of Ionic Liquids: Continuous Ion Exchange by Donnan Dialysis. 2014 , 37, 919-926		4
367	Towards optimal selective fractionation for Nordic woody biomass using novel amine-organic superbase derived switchable ionic liquids (SILs). 2014 , 70, 373-381		18
366	Determination of halide impurities in ionic liquids by total reflection X-ray fluorescence spectrometry. 2014 , 86, 3931-8		42
365	Research on the formation mechanism of composites from lignocelluloses and CaCO ₃ . 2014 , 44, 216-24		8
364	Direct Liquefaction of Sawdust in Supercritical Alcohol over Ionic Liquid Nickel Catalyst: Effect of Solvents. 2014 , 28, 6928-6935		19
363	Physical Insight into Switchgrass Dissolution in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1264-1269	8.3	18
362	Switchable ionic liquids as delignification solvents for lignocellulosic materials. 2014 , 7, 1170-6		60

361	Bio-based chemicals from biorefining: carbohydrate conversion and utilisation. 2014 , 624-658		8
360	Bio-based chemicals from biorefining: lignin conversion and utilisation. 2014 , 659-692		9
359	Microwave-Assisted Degradation of Lignin Model Compounds in Imidazolium-Based Ionic Liquids. 2014 , 28, 1380-1386		43
358	Ionic liquid binary mixtures: Promising reaction media for carbohydrate conversion into 5-hydroxymethylfurfural. 2014 , 482, 287-293		37
357	Diffusion of 1-ethyl-3-methyl-imidazolium acetate in glucose, cellobiose, and cellulose solutions. 2014 , 15, 609-17		34
356	Micellization behavior of morpholinium-based amide-functionalized ionic liquids in aqueous media. 2014 , 30, 9920-30		63
355	Dissolution, regeneration and characterisation of formic acid and Alcell lignin in ionic liquid-based systems. 2014 , 4, 2743-2755		30
354	Dissolution of cellulose in ionic liquids: an ab initio molecular dynamics simulation study. 2014 , 16, 17458-65		41
353	Pretreatment of Japanese cedar by ionic liquid solutions in combination with acid and metal ion and its application to high solid loading. 2014 , 7, 120		14
352	Preparation and properties of self-reinforced cellulose composite films from Agave microfibrils using an ionic liquid. 2014 , 114, 537-545		63
351	Evaluation of Clean Fractionation Pretreatment for the Production of Renewable Fuels and Chemicals from Corn Stover. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1364-1376	8.3	45
350	Complete chemical hydrolysis of cellulose into fermentable sugars through ionic liquids and antisolvent pretreatments. 2014 , 7, 3467-75		22
349	Acid-catalyzed hydrolysis of lignin EO-4 linkages in ionic liquid solvents: a computational mechanistic study. 2014 , 16, 5423-33		48
348	Reaction behavior of wood in an ionic liquid, 1-ethylpyridinium bromide. 2014 , 60, 339-345		17
347	Dissolution of wet wood biomass without heating. 2014 , 4, 17136-17140		36
346	Evaluation of four ionic liquids for pretreatment of lignocellulosic biomass. 2014 , 14, 34		42
345	A Mechanistic Investigation of Acid-Catalyzed Cleavage of Aryl-Ether Linkages: Implications for Lignin Depolymerization in Acidic Environments. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 472-485	8.3	251
344	Mixtures of Ethanol and the Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate for the Fractionated Solubility of Biopolymers of Lignocellulosic Biomass. 2014 , 53, 11850-11861		48

343	Loop vs. batch reactor setups in the fractionation of birch chips using switchable ionic liquids. 2014 , 238, 242-248	15
342	Lignocellulosic ethanol production without enzymes--technoeconomic analysis of ionic liquid pretreatment followed by acidolysis. 2014 , 158, 294-9	31
341	Facile pulping of lignocellulosic biomass using choline acetate. 2014 , 164, 394-401	48
340	Microwave pretreatment of lignocellulosic material in cholinium ionic liquid for efficient enzymatic saccharification. 2014 , 90, 90-95	34
339	A Comparison of Dilute Acid- and Alkali-Catalyzed Hydrothermal Pretreatments for Bioethanol Production from Brewers' Spent Grains. 2014 , 72, 143-153	19
338	Anatomical and Topochemical Aspects of Japanese beech (<i>Fagus crenata</i>) Cell Walls After Treatment with the Ionic Liquid, 1-Ethylpyridinium Bromide. 2015 , 21, 1562-1572	3
337	Conversion of Holocellulose-Derived Polyols to Valuable Chemicals Using High-Temperature Liquid Water and High-Pressure Carbon Dioxide. 2015 , 136-143	
336	Current Pretreatment Technologies for the Development of Cellulosic Ethanol and Biorefineries. 2015 , 8, 3366-90	259
335	Dissolution and Separation of Wood Biopolymers Using Ionic Liquids. 2015 , 2, 257-278	36
334	Current Trends in Pretreatment and Fractionation of Lignocellulose as Reflected in Industrial Patent Activities. 2015 , 87, 1686-1695	18
333	Utilization of Ionic Liquids in Wood and Wood-Related Applications [A Review]. 2015 ,	1
332	Ionic Liquids as a New Platform for Fiber Brittleness Removal. 2015 , 10,	0
331	A Simple Method for Separating Lignin and Carbohydrates from Softwood Biomass in a Glass Tube using Tetra-n-Butylphosphonium Hydroxide. 2015 , 11,	2
330	Kraft Lignin Depolymerization in an Ionic Liquid without a Catalyst. 2015 , 10,	22
329	Second-Generation Biofuels: Why They are Taking so Long. 2015 , 163-191	
328	Raman microscopic analysis of wood after treatment with the ionic liquid, 1-ethyl-3-methylimidazolium chloride. 2015 , 69, 273-279	16
327	Effect of ionic liquid on thermo-physical properties of bamboo biomass. 2015 , 49, 897-913	24
326	Energy and Supercritical Fluids. 2015 , 75-91	

325	Hydro-liquefaction of woody biomass for bio-oil in supercritical solvent with [BMIM]Cl/NiCl ₂ catalyst. 2015 , 5, 363-369		5
324	Influence of Methanol on the Dissolution of Lignocellulose Biopolymers with the Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. 2015 , 54, 9605-9614		22
323	Ionic liquid-mediated solid acid saccharification of sago waste: Kinetic, ionic liquid recovery and solid acid catalyst reusability study. 2015 , 77, 415-423		13
322	Ionothermal synthesis of tetranuclear borate clusters containing f- and p-block metals. 2015 , 54, 570-5		10
321	Topochemical and morphological characterization of wood cell wall treated with the ionic liquid, 1-ethylpyridinium bromide. 2015 , 242, 509-18		18
320	Comparison of three ionic liquid-tolerant cellulases by molecular dynamics. 2015 , 108, 880-892		53
319	Dissolution of cellulose in room temperature ionic liquids: anion dependence. 2015 , 119, 1654-9		34
318	Topical Themes in Energy and Resources. 2015 ,		
317	Ionic Liquid Pretreatment. 2015 , 137-155		4
316	Renewable fuels from biomass: Technical hurdles and economic assessment of biological routes. 2015 , 61, 2689-2701		49
315	Comparison on structural modification of industrial lignin by wet ball milling and ionic liquid pretreatment. 2015 , 6, 1-7		46
314	Solid-liquid phase equilibria in binary mixtures of functionalized ionic liquids with sugar alcohols: New experimental data and modelling. 2015 , 403, 167-175		11
313	Separation of polysaccharides from rice husk and wheat bran using solvent system consisting of BMIMOAc and DMI. 2015 , 133, 517-23		20
312	Galleria mellonella as a novel in vivo model for assessment of the toxicity of 1-alkyl-3-methylimidazolium chloride ionic liquids. 2015 , 139, 197-201		54
311	Almost complete dissolution of woody biomass with tetra-n-butylphosphonium hydroxide aqueous solution at 60 °C. <i>Green Chemistry</i> , 2015 , 17, 4432-4438	10	33
310	Fractionation of lignin from eucalyptus bark using amine-sulfonate functionalized ionic liquids. <i>Green Chemistry</i> , 2015 , 17, 4913-4920	10	40
309	Material pocket dynamic mechanical analysis: a novel tool to study thermal transition in wood fibers plasticized by an ionic liquid (IL). 2015 , 69, 223-232		8
308	High solubility of Victorian brown coal in distillable ionic liquid DIMCARB. 2015 , 158, 23-34		18

307	Application of ionic liquids for effective use of woody biomass. 2015 , 61, 343-350		30
306	Experimental and theoretical study of carbohydrate-ionic liquid interactions. 2015 , 127, 316-24		22
305	Synthesis of Lignin-Based Epoxy Resin in Ionic Liquid [BMIm]Cl. 2015 , 740, 51-54		1
304	Efficient adsorption of 1-alkyl-3-methylimidazolium chloride ionic liquids onto modified cellulose microspheres. 2015 , 128, 171-8		34
303	Computational approaches to understanding reaction outcomes of organic processes in ionic liquids. 2015 , 5, 35709-35729		28
302	Ionic liquid-stabilized nanoparticles as catalysts for the conversion of biomass. <i>Green Chemistry</i> , 2015 , 17, 3195-3206	10	109
301	Theoretical Insights into the Role of Water in the Dissolution of Cellulose Using IL/Water Mixed Solvent Systems. 2015 , 119, 14339-49		38
300	Influence of temperature on the solution rheology of cellulose in 1-ethyl-3-methylimidazolium chloride/dimethyl sulfoxide. 2015 , 22, 3077-3087		21
299	Ionic liquids effects on the permeability of photosynthetic membranes probed by the electrochromic shift of endogenous carotenoids. 2015 , 1848, 2898-909		9
298	Utilization of Ionic Liquids in Lignocellulose Biorefineries as Agents for Separation, Derivatization, Fractionation, or Pretreatment. 2015 , 63, 8093-102		53
297	Pretreatment of miscanthus using 1,3-dimethyl-imidazolium methyl phosphonate (DMIMMPH) ionic liquid for glucose recovery and ethanol production. 2015 , 5, 61455-61464		19
296	On the mechanism of the unwanted acetylation of polysaccharides by 1,3-dialkylimidazolium acetate ionic liquids: part I analysis, acetylating agent, influence of water, and mechanistic considerations. 2015 , 22, 3583-3596		22
295	Production of Biofuels and Chemicals with Microwave. 2015 ,		13
294	Bamboo (<i>Neosinocalamus affinis</i>)-based thin film, a novel biomass material with high performances. 2015 , 119, 167-72		9
293	Adipic acid production from lignin. 2015 , 8, 617-628		389
292	Microwave-Assisted Pretreatment of Lignocellulosic Biomass to Produce Biofuels and Value-Added Products. 2015 , 197-224		10
291	Microwave heating and hydrolysis of rubber wood biomass in ionic liquids. 2015 , 90, 2050-2056		19
290	Recent trends in ionic liquid (IL) tolerant enzymes and microorganisms for biomass conversion. 2015 , 35, 294-301		15

289	Factors governing dissolution process of lignocellulosic biomass in ionic liquid: current status, overview and challenges. 2015 , 178, 2-18		168
288	Enzymatic hydrolysis of lignocellulosic polysaccharides in the presence of ionic liquids. <i>Green Chemistry</i> , 2015 , 17, 694-714	10	176
287	Multiscale molecular modeling can be an effective tool to aid the development of biomass conversion technology: A perspective. 2015 , 121, 217-235		35
286	An effective two-step ionic liquids method for cornstalk pretreatment. 2015 , 90, 2057-2065		5
285	Characterization of fractionated biomass component and recovered ionic liquid during repeated process of cholinium ionic liquid-assisted pretreatment and fractionation. 2015 , 259, 323-329		64
284	Microscopic Investigations on Woody Biomass as Treated with Ionic Liquids. 2016 ,		0
283	Effect of Ionic Liquids on Oil Palm Biomass Fiber Dissolution. 2016 , 11,		5
282	Lignin as Building Unit for Polymers. 2016 ,		
281	Dissolution of Eucalyptus Powder with Alkaline Ionic Liquid [Mmim]DMP under Microwave Conditions. 2016 , 11,		3
280	Homogeneous Modification of Sugarcane Bagasse by Graft Copolymerization in Ionic Liquid for Oil Absorption Application. 2016 , 2016, 1-7		2
279	Physical and Mechanical Properties of Modified Poplar Veneers. 2016 , 12,		3
278	Determination of intrinsic viscosity-molecular weight relationship for cellulose in BmimAc/DMSO solutions. 2016 , 23, 2341-2348		15
277	Synthesis of Functional Ionic Liquids and their Application for the Direct Saccharification of Cellulose. 2016 , 49, 466-474		5
276	Raman Microscopic Study of Japanese Beech (<i>Fagus crenata</i>) As Treated with the Ionic Liquid, 1-Ethyl-3-Methylimidazolium Chloride. 2016 , 36, 224-234		3
275	Ionic Liquids in the Synthesis of Sugar/Carbohydrate and Lipid Conjugates. 2016 , 347-371		3
274	Functional Comparison of Polar Ionic Liquids and Onium Hydroxides for Chitin Dissolution and Deacetylation to Chitosan. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3722-3727	8.3	36
273	Physicochemical characterization and enzymatic digestibility of Chinese pennisetum pretreated with 1-ethyl-3-methylimidazolium acetate at moderate temperatures. 2016 , 91, 409-416		12
272	Mechanism of imidazolium ionic liquids toxicity in <i>Saccharomyces cerevisiae</i> and rational engineering of a tolerant, xylose-fermenting strain. 2016 , 15, 17		55

271	Saccharification of lignocellulosic biomasses via ionic liquid pretreatment. 2016 , 92, 336-341	22
270	Effect of Protic and Aprotic Solvents on the Mechanism of Cellulose Dissolution in Ionic Liquids: A Combined Molecular Dynamics and Experimental Insight. 2016 , 1, 4823-4832	14
269	Ionic Liquid-assisted Separation of Carbohydrates from Lignocellulosic Biomass. 2016 , 37, 1305-1312	2
268	Rapid dissolution of spruce cellulose in H ₂ SO ₄ aqueous solution at low temperature. 2016 , 23, 3463-3473	16
267	1D nanocrystals with precisely controlled dimensions, compositions, and architectures. 2016 , 353, 1268-72	259
266	Extraction of Polysaccharides from Japanese Cedar Using Phosphonate-Derived Polar Ionic Liquids Having Functional Groups. 2016 , 89, 879-886	10
265	Effect of ions in ionic liquids on the characteristics of cellulose from coconut husk fibres. 2016 , 21, 80	
264	Applications of Ionic Liquids. 2016 , 1-58	9
263	Production of second generation ethanol using Eucalyptus dunnii bark residues and ionic liquid pretreatment. 2016 , 93, 116-121	32
262	Advancement in knowledge of phenomena and processes: general discussion. 2016 , 190, 525-49	
261	Mechanistic insights into lignin depolymerisation in acidic ionic liquids. <i>Green Chemistry</i> , 2016 , 18, 5456-5465	75
260	Biocatalysis and Biomass Conversion in Alternative Reaction Media. 2016 , 22, 12984-99	117
259	Microscopic characterization of tension wood cell walls of Japanese beech (<i>Fagus crenata</i>) treated with ionic liquids. 2016 , 88, 24-9	4
258	Ionic liquid-tolerant microorganisms and microbial communities for lignocellulose conversion to bioproducts. 2016 , 100, 10237-10249	34
257	Effect of ionic liquid treatment on the ultrastructural and topochemical features of compression wood in Japanese cedar (<i>Cryptomeria japonica</i>). 2016 , 6, 30147	12
256	Solubility and solvation of monosaccharides in ionic liquids. 2016 , 18, 19722-30	11
255	Effect of alkaline pretreatment on the preparation of regenerated lignocellulose fibers from bamboo stem. 2016 , 23, 2727-2739	28
254	Recent advances in pretreatment technologies for efficient hydrolysis of lignocellulosic biomass. 2016 , 35, 489-511	149

253	Using Molecular Simulation to Study Biocatalysis in Ionic Liquids. 2016 , 577, 419-41	8
252	Synergistic effect of pretreatment with dimethyl sulfoxide and an ionic liquid on enzymatic digestibility of white poplar and pine. 2016 , 6, 62278-62285	17
251	A review of whole cell wall NMR by the direct-dissolution of biomass. <i>Green Chemistry</i> , 2016 , 18, 608-621	45
250	EndoG: A novel multifunctional halotolerant glucanase and xylanase isolated from cow rumen. 2016 , 126, 1-9	10
249	Microwave-assisted extraction of lipids from microalgae using an ionic liquid solvent [BMIM][HSO ₄]. 2016 , 178, 49-55	93
248	Solvent effects in catalysis: rational improvements of catalysts via manipulation of solvent interactions. 2016 , 6, 3302-3316	188
247	Applications of choline amino acid ionic liquid in extraction and separation of flavonoids and pectin from ponkan peels. 2016 , 51, 1093-1102	50
246	Ionic Liquids for Better Separation Processes. 2016 ,	14
245	Leaching of Active Ingredients from Plants with Ionic Liquids. 2016 , 135-165	1
244	Extraction of Sandalwood Oil Using Ionic Liquids: Toward a Greener More Efficient Process. 2016 , 121-133	1
243	New insights into the catalytic cleavage of the lignin β -4 linkage in multifunctional ionic liquid media. 2016 , 6, 1882-1891	40
242	Ambient temperature solubilisation of brown coal in ammonium carbamate ionic liquids. 2016 , 166, 106-115	15
241	Effects of microfluidization with ionic liquids on the solubilization and structure of β -D-glucan. 2016 , 84, 394-401	13
240	Deconstruction of Nordic hardwood in switchable ionic liquids and acylation of the dissolved cellulose. 2016 , 136, 459-65	16
239	Comparison of pulp species in IONCELL-P: selective hemicellulose extraction method with ionic liquids. 2016 , 70, 291-296	17
238	An effect of cation functionalization on thermophysical properties of ionic liquids and solubility of glucose in them [Measurements and PC-SAFT calculations. 2016 , 92, 81-90	16
237	Producing jet fuel from biomass lignin: Potential pathways to alkyl-benzenes and cycloalkanes. 2017 , 72, 673-722	119
236	Thermodynamic studies on the phase equilibria of ternary {ionic liquid, 1-hexyl-3-methyl imidazolium chloride + D-fructose or sucrose + water} systems at 298.15 K. 2017 , 436, 38-46	18

235	Ionic-Liquid-Mediated Extraction and Separation Processes for Bioactive Compounds: Past, Present, and Future Trends. 2017 , 117, 6984-7052		492
234	Ultrasonic-assisted ionic liquid treatment of chemithermomechanical pulp fibers. 2017 , 24, 1483-1491		7
233	Measurement and modeling of adsorption equilibria of imidazolium-based ionic liquids on activated carbon from aqueous solutions. 2017 , 441, 17-23		4
232	Partial delignification of wood and membrane preparation using a quaternary ammonium ionic liquid. 2017 , 7, 42472		12
231	A DFT study on lignin dissolution in imidazolium-based ionic liquids. 2017 , 7, 12670-12681		68
230	Pretreatment of oil palm trunk in deep eutectic solvent and optimization of enzymatic hydrolysis of pretreated oil palm trunk. 2017 , 107, 36-41		72
229	A Sustainable Bioeconomy. 2017 ,		20
228	Nanostructured cellulose-xyloglucan blends via ionic liquid/water processing. 2017 , 168, 163-172		11
227	Biofuels and Bioenergy. 2017 , 79-139		3
226	Anaerobic Digestion and the Use of Pre-treatments on Lignocellulosic Feedstocks to Improve Biogas Production and Process Economics. 2017 , 121-147		2
225	Directly Converting Agricultural Straw into All-Biomass Nanocomposite Films Reinforced with Additional in Situ-Retained Cellulose Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5127-5133	8.3	25
224	A review of ionic liquids: Applications towards catalytic organic transformations. 2017 , 227, 44-60		587
223	Co-N-C Catalysts Synthesized via Pyrolyzing the Ionic Liquids Solution Dissolved with Casein and Cobalt Porphyrin for Ethylbenzene Oxidation. 2017 , 2, 4255-4260		3
222	Rapid and productive extraction of high purity cellulose material via selective depolymerization of the lignin-carbohydrate complex at mild conditions. <i>Green Chemistry</i> , 2017 , 19, 2234-2243	10	30
221	Efficiency of hydrophobic phosphonium ionic liquids and DMSO as recyclable cellulose dissolution and regeneration media. 2017 , 7, 17451-17461		30
220	Dissolution and fractionation of nut shells in ionic liquids. 2017 , 227, 188-196		26
219	Ionic liquids and deep eutectic solvents for lignocellulosic biomass fractionation. 2017 , 19, 2636-2665		153
218	Imidazolium-based ionic liquids for cellulose pretreatment: recent progresses and future perspectives. 2017 , 101, 521-532		80

217	Influence of water on phase transition and rheological behavior of cellulose/ionic liquid/water ternary systems. 2017 , 134,	7
216	Extraction of natural products from bark of <i>Betula pendula</i> using ionic liquids. 2017 , 13, 1	3
215	Ionic liquids as efficient pretreatment solvents for lignocellulosic biomass. 2017 , 7, 47990-47998	48
214	Green and Efficient Processing of <i>Cinnamomum cassia</i> Bark by Using Ionic Liquids: Extraction of Essential Oil and Construction of UV-Resistant Composite Films from Residual Biomass. 2017 , 12, 3150-3155	15
213	Translational Research from Academia to Industry: Following the Pathway of George Washington Carver. 2017 , 17-33	7
212	White Birch Trunk Extracts as a Source of Organic Compounds. 2017 , 2, 9607-9619	2
211	Catalytic Conversion of Structural Carbohydrates and Lignin to Chemicals. 2017 , 60, 59-123	36
210	Mixtures of ionic liquids as more efficient media for cellulose dissolution. 2017 , 178, 277-285	42
209	NMR and Rheological Study of Anion Size Influence on the Properties of Two Imidazolium-based Ionic Liquids. 2017 , 7, 8968	18
208	A DFT investigation on interactions between lignin and ionic liquids. 2017 , 91, 1468-1473	3
207	Controlled Assembly of Lignocellulosic Biomass Components and Properties of Reformed Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8044-8052	8.3 18
206	Ionic liquid [OMIm][OAc] directly inducing oxidation cleavage of the β -4 bond of lignin model compounds. 2017 , 53, 8850-8853	43
205	Determination of density and excess molar volume of dimethyl sulfoxide + 1-allyl-3-methylimidazolium chloride mixtures at high pressure. 2017 , 130, 76-83	3
204	Pretreatments for Enhanced Enzymatic Hydrolysis of Pinewood: a Review. 2017 , 10, 1138-1154	21
203	A comparison of various lignin-extraction methods to enhance the accessibility and ease of enzymatic hydrolysis of the cellulosic component of steam-pretreated poplar. 2017 , 10, 157	89
202	Effective transformation of cellulose to 5-hydroxymethylfurfural catalyzed by fluorine anion-containing ionic liquid modified biochar sulfonic acids in water. 2017 , 24, 95-106	31
201	Effect of ionic liquids, 1-butyl-3-methyl imidazolium bromide and 1-hexyl-3-methyl imidazolium bromide on the vapour liquid equilibria of the aqueous D-fructose solutions at 298.15 K and atmospheric pressure using isopiestic method. 2017 , 105, 142-150	19
200	Coupling of ionic liquid treatment and membrane filtration for recovery of lignin from lignocellulosic biomass. 2017 , 173, 113-120	31

199	Tannin-immobilized cellulose microspheres as effective adsorbents for removing cationic dye (Methylene Blue) from aqueous solution. 2017 , 92, 1276-1284	34
198	Reaction Behaviors of Bagasse Modified with Phthalic Anhydride in 1-Allyl-3-Methylimidazolium Chloride with Catalyst 4-Dimethylaminopyridine. 2017 ,	
197	Synthesis and Characterization of Alkali Lignin-based Hydrogels from Ionic Liquids. 2017 , 12,	15
196	Pretreatment of Lignocellulosic Biomass with Ionic Liquids and Ionic Liquid-Based Solvent Systems. 2017 , 22,	84
195	THEORETICAL STUDY ON INTERACTIONS BETWEEN IONIC LIQUID AND CHITIN/CHITOSAN/CELLULOSE. 2017 , 62, 3668-3676	2
194	Rapid and Complete Dissolution of Softwood Biomass in Tetra-n-butylphosphonium Hydroxide with Hydrogen Peroxide. 2017 , 12,	3
193	Theoretical study on interactions between lignocellulose components and ionic liquids. 2017 , 231, 012109	1
192	Recent progress in ionic liquid processing of wood. 2017 , 43, 308-321	
191	Industrial uses and applications of ionic liquids. 2018 , 3,	11
190	Biodegradable lignocellulosic porous materials: Fabrication, characterization and its application in water processing. 2018 , 115, 846-852	24
189	Development of Acidic Imidazolium Ionic Liquids for Activation of Kraft Lignin by Controlled Oxidation: Comprehensive Evaluation and Practical Utility. 2018 , 83, 361-374	12
188	Nature of phase transitions of waxy maize starch in water-ionic liquid mixtures. 2018 , 112, 315-325	9
187	Lactic Acid Production from Renewable Feedstock: Fractionation, Hydrolysis, and Fermentation. 2018 , 2, 1700185	2
186	Investigation of the solute-solute and solute-solvent interactions in ternary {saccharide + ionic liquid + water} systems. 2018 , 256, 191-202	7
185	Understanding Microwave-Assisted Lignin Solubilization in Protic Ionic Liquids with Multiaromatic Imidazolium Cations. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4122-4129	8.3 20
184	Bright Side of Lignin Depolymerization: Toward New Platform Chemicals. 2018 , 118, 614-678	934
183	Scaling-Up Ionic Liquid-Based Technologies: How Much Do We Care About Their Toxicity? Prima Facie Information on 1-Ethyl-3-Methylimidazolium Acetate. 2018 , 161, 249-265	31
182	Cellulose Activation and Dissolution. 2018 , 173-257	3

181	Direct Extraction of Polysaccharides from Moso Bamboo (<i>Phyllostachys heterocycla</i>) Chips Using a Mixed Solvent System of an Amino Acid Ionic Liquid with Polar Aprotic Solvent. 2018 , 91, 398-404	9
180	Recycled ionic liquid 1-ethyl-3-methylimidazolium acetate pretreatment for enhancing enzymatic saccharification of softwood without cellulose regeneration. 2018 , 64, 149-156	12
179	Relationship between lignocellulosic biomass dissolution and physicochemical properties of ionic liquids composed of 3-methylimidazolium cations and carboxylate anions. 2018 , 20, 2508-2516	35
178	Computational solvation analysis of biomolecules in aqueous ionic liquid mixtures : From large flexible proteins to small rigid drugs. 2018 , 10, 825-840	10
177	Design of task-specific fluorinated ionic liquids: nanosegregation versus hydrogen-bonding ability in aqueous solutions. 2018 , 54, 3524-3527	12
176	Determining the relative strengths of aromatic and aliphatic C-H...X hydrogen bonds in imidazolium ionic liquids through measurement of H/D isotope effects on F nuclear shielding. 2018 , 56, 103-107	5
175	Prospects for pretreatment methods of lignocellulosic waste biomass for biogas enhancement: opportunities and challenges. 2018 , 9, 575-594	27
174	Isopiestic determination of water activity and vapour pressure for ternary (ionic liquid, 1-hexyl-4-methyl pyridinium bromide + d-fructose or sucrose + water) systems and corresponding binary ionic liquid solutions at 298.15 K. 2018 , 116, 42-49	13
173	Reconstruction of lignin and hemicelluloses by aqueous ethanol anti-solvents to improve the ionic liquid-acid pretreatment performance of <i>Arundo donax</i> Linn. 2018 , 115, 82-91	5
172	Extraction of lignin from tobacco stem using ionic liquid. 2018 , 31, 725-730	7
171	4. Industrial uses and applications of ionic liquids. 2018 , 43-58	1
170	Imidazolium Based Ionic Liquids: A Promising Green Solvent for Water Hyacinth Biomass Deconstruction. 2018 , 6, 548	20
169	Spectroscopic Investigation of Thermochemical Depolymerization of Lignin Model Compounds in the Presence of Novel Liquidlike Nanoparticle Organic Hybrid Solvents for Efficient Biomass Valorization. 2018 , 22, 1723-1732	9
168	Characterization of Biocompatible Hydroxyapatite Extracted from Bovine Bones Dissolved in an Ionic Liquid. 2018 , 51, 438-444	
167	Solvent processing of cellulose for effective bioresource utilization. 2018 , 14, 40-52	20
166	Capillary evaporation of the ionic liquid [EMIM][BF ₄] in nanoscale solvophobic confinement. 2018 , 148, 193810	13
165	Dissolving process of bamboo powder analyzed by FT-IR spectroscopy. 2018 , 1171, 639-643	23
164	Basicity Characterization of Imidazolyl Ionic Liquids and Their Application for Biomass Dissolution. 2018 , 2018, 1-8	3

163	Ionic Liquids. 2018 , 218-218	2
162	Opportunities of Ionic Liquids for Lignin Utilization from Biorefinery. 2018 , 3, 7945-7962	26
161	A Bibliometric Study of Scientific Publications regarding Hemicellulose Valorization during the 2000-2016 Period: Identification of Alternatives and Hot Topics. 2018 , 2, 7	17
160	The effect of lignin on processing and the properties of lignocellulose material recovered by ionic liquid. 2018 , 368, 012029	1
159	Ionic Liquids for Clean Biocatalytic Processes. 2018 , 4,	7
158	Simultaneous determination of myricetrin, quercitrin and afzelin in leaves of <i>Cercis chinensis</i> by a fast and effective method of ionic liquid microextraction coupled with HPLC. 2018 , 12, 23	6
157	Advances in Processing Chitin as a Promising Biomaterial from Ionic Liquids. 2019 , 168, 177-198	6
156	Effects of temperature on cellulose hydrogen bonds during dissolution in ionic liquid. 2018 , 201, 387-391	27
155	Salting-out Effect of Ionic Liquid, 1-Butyl-3-methyl Imidazolium Chloride on Aqueous d-Fructose or Sucrose Solutions at T = 298.15 K: Vapor-Liquid Equilibrium Study. 2018 , 63, 3196-3205	5
154	Effects of ionic liquid/water mixture pretreatment on the composition, the structure and the enzymatic hydrolysis of corn stalk. 2018 , 122, 142-147	34
153	Dimethyl sulfoxide enhances both the cellulose dissolution ability and biocompatibility of a carboxylate-type liquid zwitterion. 2018 , 42, 13225-13228	22
152	Ionic liquid-based extraction and separation trends of bioactive compounds from plant biomass. 2019 , 54, 559-579	19
151	Improving ionic liquid tolerance in <i>Saccharomyces cerevisiae</i> through heterologous expression and directed evolution of an ILT1 homolog from <i>Yarrowia lipolytica</i> . 2019 , 46, 1715-1724	9
150	Direct and complete utilization of agricultural straw to fabricate all-biomass films with high-strength, high-haze and UV-shielding properties. 2019 , 223, 115057	17
149	Application of Ionic Liquids in Biotechnology. 2019 ,	2
148	Effect of microwave-assisted ionic liquid/acidic ionic liquid pretreatment on the morphology, structure, and enhanced delignification of rice straw. 2019 , 293, 121929	52
147	Dissolution of cellulose in ionic liquids and their mixed cosolvents: A review. 2019 , 13, 100162	46
146	Green Process for Extraction of Lignin by the Microwave-Assisted Ionic Liquid Approach: Toward Biomass Biorefinery and Lignin Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13062-13072	8.3 42

145	110th Anniversary: High-Molecular-Weight Chitin and Cellulose Hydrogels from Biomass in Ionic Liquids without Chemical Crosslinking. 2019 , 58, 19862-19876		12
144	Evaluating the Ion Transport of 1-Ethyl-3-Methylimidazolium Acetate Solutions Containing Carbohydrate Solutes. 2019 , 166, H721-H729		4
143	Dissolution of lignocellulosic biomass in ionic liquid-water media: Interpretation from solubility parameter concept. 2019 , 36, 1626-1636		5
142	Effects of Ionic Liquid-Assisted Pretreatment of Heavy Metal-Contaminated Biomass on the Yield and Composition of Syngas Production Using Noncatalytic and Catalytic Pyrolysis and Gasification Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18303-18312	8.3	2
141	Application of Ionic Liquids in Separation and Fractionation Processes. 2019 , 637-665		1
140	Understanding Laccase/Ionic Liquid Interactions toward Biocatalytic Lignin Conversion in Aqueous Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15928-15938	8.3	30
139	Rich and Stable Interlayer Porous Bamboo Carbon Sulfonic Acids Constructed by Silica Intercalation as Cheap and Robust Acid Catalysts. 2019 , 92, 1824-1833		2
138	Dissolution and transesterification of cellulose in γ -valerolactone promoted by ionic liquids. 2019 , 43, 330-337		7
137	Cellulose solvent-based pretreatment for enhanced second-generation biofuel production: a review. 2019 , 3, 11-62		114
136	Bio-sourced Lignin: Recovery Techniques and Principles. 2019 , 65-150		
135	A fundamental understanding of whole biomass dissolution in ionic liquid for regeneration of fiber by solution-spinning. <i>Green Chemistry</i> , 2019 , 21, 4354-4367	10	14
134	Which Variables Matter for Process Design and Scale-Up? A Study of Sugar Cane Straw Pretreatment Using Low-Cost and Easily Synthesizable Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 12779-12788	8.3	13
133	Assessment of wasteland derived biomass for bioethanol production. 2019 , 41, 1-8		17
132	Fractionation of Lignocellulosic Biomass by Selective Precipitation from Ionic Liquid Dissolution. 2019 , 9, 1862		20
131	Synthesis of hydroxymethylfurfural and furfural from hardwood and softwood pulp using ferric sulphate as catalyst. 2019 , 13, 531-542		10
130	Dissolution and recovery of cellulose from pine wood chips in ionic liquids and a co-solvent component mixed system. 2019 , 14, 155892501983844		7
129	Flame-retardant plant thermoplastics directly prepared by single ionic liquid substitution. 2019 , 51, 781-789		1
128	Recent Advances in Applications of Acidophilic Fungi to Produce Chemicals. 2019 , 24,		7

127	Investigation of the Thermodynamic Properties in Aqueous Solutions Containing d-Fructose and Some Imidazolium-Based Ionic Liquids at Different Temperatures. 2019 , 64, 1385-1398	11
126	WCl catalyzed cellulose degradation at 80 °C and lower in [BMIM]Cl. 2019 , 212, 289-296	9
125	Green solvents for the dissolution and processing of biopolymers. 2019 , 18, 72-78	16
124	Dissolution, regeneration and characterization of curdlan in the ionic liquid 1-ethyl-3-methylimidazolium acetate. 2019 , 130, 922-927	11
123	Recent advances in catalytic conversion of biomass to 5-hydroxymethylfurfural and 2,5-dimethylfuran. 2019 , 103, 227-247	109
122	The controlled oxidation of kraft lignin in mild conditions using ionic liquid as a crucial point in fabrication of antibacterial hybrid materials. 2019 , 274, 370-378	12
121	Effects of alkalinity of ionic liquids on the structure of biomass in pretreatment process. 2019 , 53, 177-189	5
120	Ionic liquids and gamma-valerolactone as case studies for green solvents in the deconstruction and refining of biomass. 2019 , 18, 20-24	11
119	Preparation, Properties, and Applications of Natural Cellulosic Aerogels: A Review. 2020 , 1, 60-76	55
118	Volumetric and compressibility studies of monosaccharides in aqueous cholinium propanoate [Chl][Pro] solutions at different temperatures. 2020 , 298, 111955	3
117	Dissolution of lignocellulosic biopolymers in ethanolamine-based protic ionic liquids. 2020 , 77, 3637-3656	9
116	Direct fabrication of hierarchically processed pineapple peel hydrogels for efficient Congo red adsorption. 2020 , 230, 115599	37
115	Recent developments in modification of lignin using ionic liquids for the fabrication of advanced materials: A review. 2020 , 301, 112417	45
114	Enzymatic hydrolysis of cellulose recovered from ionic liquid-salt aqueous two-phase system. 2020 , 129, 624-631	4
113	Microwave-Assisted Lignin Solubilization in Protic Ionic Compounds Containing 2,3,4,5-Tetraphenyl-1H-imidazolium and Inorganic Anions. 2020 , 11, 6585-6593	3
112	Electroanalytical Investigation of the Electrode/Electrolyte Interface of Quaternary Ammonium Ionic Liquids: Impact of Alkyl Chain Length and Ether Functionality. 2020 , 124, 5613-5623	9
111	Ionic liquid-modified cellulosic hydrogels for loading and sustained release of selenourea: an ensuing inhibition of tyrosinase activity. 2020 , 18, 100365	1
110	Recent Trends in Elaboration, Processing, and Derivatization of Cellulosic Materials Using Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17893-17907	8.3 18

109	Purification of Kraft cellulose under mild conditions using choline acetate based deep eutectic solvents. <i>Green Chemistry</i> , 2020 , 22, 8680-8691	10	14
108	Characterization and Enzyme Engineering of a Hyperthermophilic Laccase Toward Improving Its Activity in Ionic Liquid. 2020 , 8,		6
107	Green Synthesis and Fractionation of Cellulose Acetate by Controlling the Reactivity of Polysaccharides in Sugarcane Bagasse. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9002-9008	8.3	6
106	Delignification of autohydrolyzed wood in media containing water and a protic ionic liquid. 2020 , 40, 235-247		4
105	Processing and valorization of cellulose, lignin and lignocellulose using ionic liquids. 2020 , 5, 79-95		102
104	Preferential leaching of indium metal during room temperature ionic liquid processing of PdIn nanoparticle-biopolymer composites. 2020 , 249, 123179		0
103	A review of conversion of lignocellulose biomass to liquid transport fuels by integrated refining strategies. 2020 , 208, 106485		49
102	Biofibers and Biopolymers for Biocomposites. 2020 ,		3
101	Microwave-assisted direct transformation of lignocellulose into methyl glycopyranoside in ionic liquid. 2020 , 74, 313-320		3
100	Ionic Liquids as Environmental Benign Solvents for Cellulose Chemistry: A Review. 2020 ,		1
99	Valorization of lignocellulosic-based wastes. 2020 , 383-410		4
98	Degradation mechanism of <i>Saccharomyces cerevisiae</i> β -D-glucan by ionic liquid and dynamic high pressure microfluidization. 2020 , 241, 116123		5
97	Cellulose Microcrystals with Brush-Like Architectures as Flexible All-Solid-State Polymer Electrolyte for Lithium-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3200-3207	8.3	35
96	Commercial Applications of Ionic Liquids. 2020 ,		27
95	A Review on the Partial and Complete Dissolution and Fractionation of Wood and Lignocelluloses Using Imidazolium Ionic Liquids. 2020 , 12,		46
94	Use of Ionic Liquids in Chitin Biorefinery: A Systematic Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 11	5.8	15
93	Lignin solvation by ionic liquids: The role of cation. 2020 , 303, 112588		8
92	Recent advances and challenges of inter-disciplinary biomass valorization by integrating hydrothermal and biological techniques. 2021 , 135, 110370		52

91	Vivid techniques of pretreatment showing promising results in biofuel production and food processing. 2021 , 44, e13580		1
90	Strategic biorefinery platform for green valorization of agro-industrial residues: A sustainable approach towards biodegradable plastics. 2021 , 290, 125184		13
89	Sugarcane bagasse: A promising substrate for solid-state fermentation. 2021 , 1-13		2
88	The tree fractionation: the extraction of natural polyphenols. 2021 , 33-84		1
87	Assessment of Bacterial Community Structure in Saline Sediment Microcosms Exposed for the First Time to the Ionic Liquid 1-Ethyl-3-Methylimidazolium Chloride. 2021 , 232, 1		1
86	Hazardous Creosote Wood Valorization via Fractionation and Enzymatic Saccharification Coupled with Simultaneous Extraction of the Embedded Polycyclic Aromatic Hydrocarbons Using Protic Ionic Liquid Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 704-716	8.3	3
85	Liquid Hot Water Pretreatment for Lignocellulosic Biomass Biorefinery. 2021 , 81-109		
84	Time-Temperature Superposition of the Dissolution of Silk Fibers in the Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. 2021 , 22, 1091-1101		3
83	Efficient pyran derivatives synthesis in DES medium and their antimicrobial evaluation as inhibitors of mycobacterium bovis (BCG). 2021 , 18, 2575-2582		0
82	Air-Jet Wet-Spinning of Curdlan Using Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4247-4255	8.3	5
81	Cellulose Dissolved in Ionic Liquids for Modification of the Shape of Keratin Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4102-4110	8.3	5
80	Understanding the role of Dimethylformamide as co-solvents in the dissolution of cellulose in ionic liquids: Experimental and theoretical approach. 2021 , 328, 115392		8
79	Bringing Material Concepts into Conventional Biorefineries: Considerations of Sources, Preparations, and Applications of Lignin Nanomaterials. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10403-10423	8.3	8
78	Pretreatment of corn cobs using 1-butyl-3-methylimidazolium tetrafluoroborate and dimethyl sulfoxide to enhance enzymatic saccharification. 1		1
77	Essential Requirements of Biocompatible Cellulose Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11825-11836	8.3	2
76	Characteristics of acetate and lactate protic ionic liquids and their suitability to extract lignin from black liquor. 2021 , 1, 100005		0
75	Recent advancements in the ionic liquid mediated lignin valorization for the production of renewable materials and value-added chemicals. 2021 , 149, 111368		15
74	Unique and generic structural features of cholinium amino acid-based biocompatible ionic liquids. 2021 , 23, 10662-10669		6

73	Isolation of Lignins. 113-144		1
72	Commercial Aspects of Biomass Deconstruction with Ionic Liquids. 2020 , 87-127		6
71	Ionic Liquids Based Processing of Renewable and Sustainable Biopolymers. 2020 , 181-207		6
70	Structure and Characteristics of Lignin. 2020 , 17-75		2
69	Cellulose from Lignocellulosic Waste. 2015 , 475-511		15
68	Fundamentals of Ionic Liquids. 2014 , 3-28		2
67	Solubilization of Biomass Components with Ionic Liquids Toward Biomass Energy Conversions. 2014 , 29-59		2
66	Fractionation of Lignocellulosic Materials with Ionic Liquids. 2014 , 145-168		7
65	Technologies for Eucalyptus wood processing in the scope of biorefineries: A comprehensive review. 2020 , 311, 123528		22
64	Chapter 12:Ionic Liquids for the Utilization of Lignocellulosics. 2010 , 307-343		2
63	Sustainable functionalization of cellulose and starch with diallyl carbonate in ionic liquids. <i>Green Chemistry</i> , 2017 , 19, 3899-3907	10	25
62	Ionic Liquid Pretreatment of Rice Straw to Enhance Saccharification and Bioethanol Production.		8
61	Progress of Lignocellulose Pretreatment Technologies. 2014 , 04, 25-34		1
60	Measurement and Modeling of Solubility of Galactose in Aqueous Ionic Liquids, 1-Butyl-3-Methyl Imidazolium Bromide, 1-Hexyl-3-Methyl Imidazolium Bromide and 1-Butyl-3-Methylimidazolium Chloride at T = (298.15 And 308.15) K. 2019 , 25, 319-330		1
59	Treatment and characterization of biomass of soybean and rice hulls using ionic liquids for the liberation of fermentable sugars. 2020 , 92, e20191258		2
58	Chemical Characteristics of Wood Materials Treated with an Ionic Liquid, 1-n-butyl-3-methylimidazolium Chloride. 2009 , 55, 243-248		1
57	Functional Design of Polar Ionic Liquids for the Challenge to the Biomass Energy Conversion. 2013 , 56, 97-103		1
56	Plant Cell Wall, a Challenge for Its Characterisation. 2016 , 06, 70-105		13

55	Efficient Extraction of Agarose from Red Algae Using Ionic Liquids. 2014 , 04, 190-201		33
54	Study of Ionic Liquids UV-VIS and FTIR Spectra before and after Heating and Spruce Groundwood Dissolution. 2019 , 27, 118-123		4
53	Biocatalysis in ionic liquids: state-of-the-union. <i>Green Chemistry</i> , 2021 , 23, 8406-8427	10	5
52	Qu'attendre des liquides ioniques en chimie organique?. 2012 , 126-133		
51	A talaj szerves anyagjainak kémiai kioldása: mechanizmusok és kiontatózerek. 2013 , 62, 451-470		
50	Detection and Determination. 49-74		
49	Application of Ionic Liquids in Separation and Fractionation Processes. 2018 , 1-29		0
48	Encyclopedia of Sustainability Science and Technology. 2018 , 1-33		
47	Das Wertstoff-Prinzip. 2019 , 265-315		
46	Use of Ionic Liquids for the Biorefinery. 2019 , 223-255		
45	Encyclopedia of Ionic Liquids. 2019 , 1-22		
44	Encyclopedia of Ionic Liquids. 2019 , 1-7		
43	Innovative approach for obtaining phenolic compounds from guava (<i>Psidium guajava</i> L.) coproduct using ionic liquid ultrasound-assisted extraction (IL-UAE). 2021 , 102196		2
42	The influence of mechanical, physical and chemical pre-treatment processes of wood surface on the relationships of wood with a waterborne opaque coating. 2022 , 162, 106574		4
41	The Resource Principle. 2020 , 261-310		
40	Green Conversion of Total Lignocellulosic Components of Sugarcane Bagasse to Thermoplastics Through Transesterification Using Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> ,	8,3	1
39	Extraction of high-value compounds from marine biomass via ionic liquid-based techniques. 2022 , 417-439		
38	Ionic liquid-assisted production of high-porosity biochar with more surface functional groups: Taking cellulose as attacking target. 2021 , 433, 133811		0

37	Dry-jet wet spinning of β 1,3-glucan and β 1,3-glucan.	0
36	Lignocellulosic Biomass Pretreatment for Enhanced Bioenergy Recovery: Effect of Lignocelluloses Recalcitrance and Enhancement Strategies. 2021 , 9,	4
35	An Insight into Valorization of Lignocellulosic Biomass by Optimization with the Combination of Hydrothermal (HT) and Biological Techniques: A Review. 2022 , 3, 35-55	8
34	Upcycling agricultural waste into membranes: from date seed biomass to oil and solvent-resistant nanofiltration. <i>Green Chemistry</i> , 2022 , 24, 365-374	10 6
33	Solvents and ions for pretreatment in lignocellulosic biorefineries. 2022 , 113, 241-257	0
32	Green mechano-chemical processing of lignocellulosic biomass for lignin recovery.. 2022 , 133647	2
31	Physico-chemical characterization of aqueous solutions of superbase ionic liquids with cellulose dissolution capability. 2022 , 113414	1
30	Regenerated Cellulose Materials. 2022 ,	
29	Molecular Insights into Dissolution of Lignin Bunch in Ionic Liquid-Water Mixture for Enhanced Biomass Conversion.	
28	Highly efficient extraction of <i>Eucommia ulmoides</i> gum by IL-organic solvent biphasic system. 2022 , 180, 114735	1
27	Sustainability in Heritage Wood Conservation: Challenges and Directions for Future Research. 2022 , 13, 18	3
26	Utilization of Cellulose to Its Full Potential: A Review on Cellulose Dissolution, Regeneration, and Applications.. 2021 , 13,	5
25	Reactive extrusion as a sustainable alternative for the processing and valorization of biomass components. 2022 , 355, 131840	2
24	Chapter 8. Anti-solvent Effect of High-pressure CO ₂ in Natural Polymers. <i>RSC Green Chemistry</i> , 165-180 0.9	
23	Data_Sheet_1.DOCX. 2020 ,	
22	Uses of ionic liquids to obtain bioactive compounds: insights from the main international regulations for technological applications.. 2022 , 1-16	0
21	Pretreatment of <i>Typha latifolia</i> biomass with imidazolium ionic liquid as a strategy for sugar production. 1	0
20	Pretreatment of Corn Stover by Levulinic Acid-Based Protic Ionic Liquids for Enhanced Enzymatic Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3 2

19	Modifying Surface Charges of a Thermophilic Laccase Toward Improving Activity and Stability in Ionic Liquid. <i>Frontiers in Bioengineering and Biotechnology</i> , 10,	5.8	○
18	Chapter 4. Industrial Waste. <i>RSC Green Chemistry</i> , 2022, 67-123	0.9	
17	Chapter 7. Patented and Commercialized Ionic-liquid-based Processes for Waste Valorisation. <i>RSC Green Chemistry</i> , 2022, 155-167	0.9	
16	Ionic-liquid-Assisted Fabrication of Lignocellulosic Thin Films with Tunable Hydrophobicity. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8835-8845	8.3	
15	Deep eutectic solvents vs. ionic liquids: Similarities and differences. 2022, 105-138		○
14	Wettability and surface interactions of natural and thermally modified beech wood with water and water-based coatings: the effect of surface pre-treatment type.		○
13	In-situ visualizing selective lignin dissolution of tracheids wall in reaction wood. 2022, 222, 691-700		○
12	Deep Eutectic Solvents: Alternative Solvents for Biomass-Based Waste Valorization. 2022, 27, 6606		○
11	Cellulose-Based Light-Management Films with Improved Properties Directly Fabricated from Green Tea. 2022, 3, 776-791		○
10	Biomass and Cellulose Dissolution—The Important Issue in Renewable Materials Treatment. 2023, 13, 1055		○
9	Ionic Liquids as Organocatalysts and Solvents for Lignocellulose Reactions.		○
8	Role of ionic liquids in bioactive compounds extractions and applications. 2023, 247-284		○
7	Challenges in Using Ionic Liquids for Cellulosic Ethanol Production. 2023, 28, 1620		○
6	Biotechnology. 2009, 214-231		○
5	Ionic Liquid Efficiency on Wood Dissolution and Polysaccharide Identification. 2022, 12, 254-273		○
4	Design of Functional Imidazolium-Based Ionic Liquids for Biomass Processing. 2022, 274-280		○
3	Ionic Liquids as Solvents for the Production of Materials from Biomass. 2022, 642-663		○
2	Molecular insights into dissolution of lignin bunch in ionic liquid-water mixture for enhanced biomass conversion. 2023, 206, 47-59		○

1 Organic cushioned material maintaining natural wood structure.

o