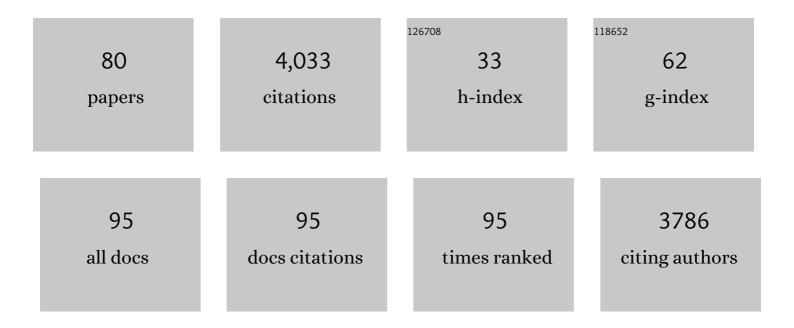
List of Publications by Year in descending order

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ALISTAID W/TKINC

#	Article	IF	CITATIONS
1	Dissolution of Wood in Ionic Liquids. Journal of Agricultural and Food Chemistry, 2007, 55, 9142-9148.	2.4	850
2	Role of Solvent Parameters in the Regeneration of Cellulose from Ionic Liquid Solutions. Biomacromolecules, 2012, 13, 2896-2905.	2.6	236
3	Distillable Acid–Base Conjugate Ionic Liquids for Cellulose Dissolution and Processing. Angewandte Chemie - International Edition, 2011, 50, 6301-6305.	7.2	208
4	loncell-F: A High-strength regenerated cellulose fibre. Nordic Pulp and Paper Research Journal, 2015, 30, 43-57.	0.3	190
5	Thorough Chemical Modification of Wood-Based Lignocellulosic Materials in Ionic Liquids. Biomacromolecules, 2007, 8, 3740-3748.	2.6	183
6	Predicting Cellulose Solvating Capabilities of Acid–Base Conjugate Ionic Liquids. ChemSusChem, 2013, 6, 2161-2169.	3.6	121
7	Chemical Modification of Reducing Endâ€Groups in Cellulose Nanocrystals. Angewandte Chemie - International Edition, 2021, 60, 66-87.	7.2	83
8	Impact of Amphiphilic Biomass-Dissolving Ionic Liquids on Biological Cells and Liposomes. Environmental Science & Technology, 2015, 49, 1870-1878.	4.6	78
9	Tosylation and acylation of cellulose in 1-allyl-3-methylimidazolium chloride. Cellulose, 2008, 15, 481-488.	2.4	76
10	Superhydrophobic Paper from Nanostructured Fluorinated Cellulose Esters. ACS Applied Materials & Interfaces, 2018, 10, 11280-11288.	4.0	75
11	Effect of Ionic Liquids on Zebrafish ( <i>Danio rerio</i> ) Viability, Behavior, and Histology; Correlation between Toxicity and Ionic Liquid Aggregation. Environmental Science & Technology, 2016, 50, 7116-7125.	4.6	74
12	In Situ Determination of Lignin Phenolics and Wood Solubility in Imidazolium Chlorides Using <sup>31</sup> P NMR. Journal of Agricultural and Food Chemistry, 2009, 57, 8236-8243.	2.4	72
13	Relative and inherent reactivities of imidazolium-based ionic liquids: the implications for lignocellulose processing applications. RSC Advances, 2012, 2, 8020.	1.7	72
14	Amphiphilic and Phase eparable Ionic Liquids for Biomass Processing. ChemSusChem, 2014, 7, 1422-1434.	3.6	60
15	Sustainability of cellulose dissolution and regeneration in 1,5-diazabicyclo[4.3.0]non-5-enium acetate: a batch simulation of the IONCELL-F process. RSC Advances, 2015, 5, 69728-69737.	1.7	60
16	Ionic Liquids for the Production of Man-Made Cellulosic Fibers: Opportunities and Challenges. Advances in Polymer Science, 2015, , 133-168.	0.4	58
17	Molecular Weight Distributions and Linkages in Lignocellulosic Materials Derivatized from Ionic Liquid Media. Journal of Agricultural and Food Chemistry, 2011, 59, 829-838.	2.4	57
18	Liquid-State NMR Analysis of Nanocelluloses. Biomacromolecules, 2018, 19, 2708-2720.	2.6	57

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19	Unique reactivity of nanoporous cellulosic materials mediated by surface-confined water. Nature Communications, 2021, 12, 2513.	5.8	57
20	A new method for rapid degree of substitution and purity determination of chloroform-soluble cellulose esters, using 31P NMR. Analytical Methods, 2010, 2, 1499.	1.3	50
21	Enhancement of ionic liquid-aided fractionation of birchwood. Part 1: autohydrolysis pretreatment. RSC Advances, 2013, 3, 16365.	1.7	45
22	Correlation between Ionic Liquid Cytotoxicity and Liposome–Ionic Liquid Interactions. Chemistry - A European Journal, 2018, 24, 2669-2680.	1.7	43
23	Synthesis of Cellulose Methylcarbonate in Ionic Liquids using Dimethylcarbonate. ChemSusChem, 2015, 8, 77-81.	3.6	41
24	Homogenous esterification of cellulose pulp in [DBNH][OAc]. Cellulose, 2017, 24, 5341-5354.	2.4	41
25	Assembling Native Elementary Cellulose Nanofibrils via a Reversible and Regioselective Surface Functionalization. Journal of the American Chemical Society, 2021, 143, 17040-17046.	6.6	41
26	Crystallinity reduction and enhancement in the chemical reactivity of cellulose by non-dissolving pre-treatment with tetrabutylphosphonium acetate. Cellulose, 2020, 27, 5545-5562.	2.4	39
27	Hydrophobic Interactions Determining Functionalized Lignocellulose Solubility in Dialkylimidazolium Chlorides, as Probed by <sup>31</sup> P NMR. Biomacromolecules, 2009, 10, 458-463.	2.6	38
28	Impact of Surface-Active Guanidinium-, Tetramethylguanidinium-, and Cholinium-Based Ionic Liquids on Vibrio Fischeri Cells and Dipalmitoylphosphatidylcholine Liposomes. Scientific Reports, 2017, 7, 46673.	1.6	38
29	Highly compatible wood thermoplastic composites from lignocellulosic material modified in ionic liquids: Preparation and thermal properties. Journal of Applied Polymer Science, 2009, 111, 2468-2476.	1.3	36
30	Efficiency of hydrophobic phosphonium ionic liquids and DMSO as recyclable cellulose dissolution and regeneration media. RSC Advances, 2017, 7, 17451-17461.	1.7	36
31	On the solubility of wood in non-derivatising ionic liquids. Green Chemistry, 2013, 15, 2374.	4.6	35
32	Fast and highly efficient acetylation of xylans in ionic liquid systems. Cellulose, 2013, 20, 2813-2824.	2.4	35
33	Experimental and Theoretical Thermodynamic Study of Distillable Ionic Liquid 1,5-Diazabicyclo[4.3.0]non-5-enium Acetate. Industrial & Engineering Chemistry Research, 2016, 55, 10445-10454.	1.8	35
34	2D Assignment and quantitative analysis of cellulose and oxidized celluloses using solution-state NMR spectroscopy. Cellulose, 2020, 27, 7929-7953.	2.4	34
35	Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids. Biomacromolecules, 2019, 20, 502-514.	2.6	31
36	Fractionation of Lignocellulosic Materials with Ionic Liquids. 1. Effect of Mechanical Treatment. Industrial & Engineering Chemistry Research, 2011, 50, 12349-12357.	1.8	30

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37	A comparative study of water-immiscible organic solvents in the production of furfural from xylose and birch hydrolysate. Journal of Industrial and Engineering Chemistry, 2019, 72, 354-363.	2.9	30
38	Stereoselective reductase-catalysed deoxygenation of sulfoxides in aerobic and anaerobic bacteria. Organic and Biomolecular Chemistry, 2004, 2, 554.	1.5	29
39	Solutionâ€State One―and Twoâ€Dimensional NMR Spectroscopy of Highâ€Molecularâ€Weight Cellulose. ChemSusChem, 2016, 9, 880-892.	3.6	29
40	Cellulose hydrolysis with thermo- and alkali-tolerant cellulases in cellulose-dissolving superbase ionic liquids. RSC Advances, 2013, 3, 20001.	1.7	26
41	Application of mild autohydrolysis to facilitate the dissolution of wood chips in direct-dissolution solvents. Green Chemistry, 2016, 18, 3286-3294.	4.6	26
42	High-Performance Acetylated Ioncell-F Fibers with Low Degree of Substitution. ACS Sustainable Chemistry and Engineering, 2018, 6, 9418-9426.	3.2	26
43	Improved Reactivity of Cellulose via Its Crystallinity Reduction by Nondissolving Pretreatment with an Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2019, 7, 9164-9171.	3.2	26
44	Binary mixtures of ionic liquids-DMSO as solvents for the dissolution and derivatization of cellulose: Effects of alkyl and alkoxy side chains. Carbohydrate Polymers, 2019, 212, 206-214.	5.1	26
45	Fractionation of Lignocellulosic Materials Using Ionic Liquids: Part 2. Effect of Particle Size on the Mechanisms of Fractionation. Industrial & Engineering Chemistry Research, 2013, 52, 3958-3966.	1.8	25
46	Coaxial Spinning of All-Cellulose Systems for Enhanced Toughness: Filaments of Oxidized Nanofibrils Sheathed in Cellulose II Regenerated from a Protic Ionic Liquid. Biomacromolecules, 2020, 21, 878-891.	2.6	25
47	The molecular structure and multifunctionality of the cryptic plant polymer suberin. Materials Today Bio, 2020, 5, 100039.	2.6	24
48	Regioselective and water-assisted surface esterification of never-dried cellulose: nanofibers with adjustable surface energy. Green Chemistry, 2021, 23, 6966-6974.	4.6	24
49	Extraction of Wheat Straw with Aqueous Tetra-n-Butylphosphonium Hydroxide. BioResources, 2013, 9,	0.5	23
50	Feasibility of thermal separation in recycling of the distillable ionic liquid [DBNH][OAc] in cellulose fiber production. Chemical Engineering Research and Design, 2016, 114, 287-298.	2.7	23
51	Diverting Hydrogenations with Wilkinson's Catalyst towards Highly Reactive Rhodium(I) Species. Angewandte Chemie - International Edition, 2015, 54, 14321-14325.	7.2	21
52	Phosphonium-based ionic liquids in electrokinetic capillary chromatography for the separation of neutral analytes. Journal of Chromatography A, 2012, 1253, 171-176.	1.8	20
53	Immobilization of a phosphonium ionic liquid on a silica monolith for hydrophilic interaction chromatography. Journal of Chromatography A, 2018, 1552, 53-59.	1.8	20
54	MECHANICAL PULPING: Effect of autohydrolysis on the lignin structure and the kinetics of delignification of birch wood. Nordic Pulp and Paper Research Journal, 2011, 26, 386-391.	0.3	19

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55	Oxygen delignification of conventional and high alkali cooked softwood Kraft pulps, and study of the residual lignin structure. RSC Advances, 2014, 4, 17469-17477.	1.7	19
56	Amination and thiolation of chloroacetyl cellulose through reactive dissolution in N,N-dimethylformamide. Carbohydrate Polymers, 2015, 116, 60-66.	5.1	19
57	Plasticized Cellulosic Films by Partial Esterification and Welding in Low-Concentration Ionic Liquid Electrolyte. Biomacromolecules, 2019, 20, 2105-2114.	2.6	19
58	Knoevenagel Condensation for Modifying the Reducing End Groups of Cellulose Nanocrystals. ACS Macro Letters, 2019, 8, 1642-1647.	2.3	19
59	Effect of ionic liquids on the interaction between liposomes and common wastewater pollutants investigated by capillary electrophoresis. Journal of Chromatography A, 2015, 1405, 178-187.	1.8	18
60	WtFâ€Nano: Oneâ€Pot Dewatering and Waterâ€Free Topochemical Modification of Nanocellulose in Ionic Liquids or γâ€Valerolactone. ChemSusChem, 2017, 10, 4879-4890.	3.6	14
61	Challenges in Synthesis and Analysis of Asymmetrically Grafted Cellulose Nanocrystals via Atom Transfer Radical Polymerization. Biomacromolecules, 2021, 22, 2702-2717.	2.6	14
62	On the Mechanism of the Reactivity of 1,3â€Dialkylimidazolium Salts under Basic to Acidic Conditions: A Combined Kinetic and Computational Study. Angewandte Chemie - International Edition, 2018, 57, 11613-11617.	7.2	13
63	Determination of the distribution constants of aromatic compounds and steroids in biphasic micellar phosphonium ionic liquid/aqueous buffer systems by capillary electrokinetic chromatography. Journal of Chromatography A, 2013, 1308, 144-151.	1.8	12
64	Highly regioselective surface acetylation of cellulose and shaped cellulose constructs in the gas-phase. Green Chemistry, 2022, 24, 5604-5613.	4.6	12
65	Parameters affecting monolayer organisation of substituted polysaccharides on solid substrates upon Langmuir–Schaefer deposition. Reactive and Functional Polymers, 2016, 99, 100-106.	2.0	11
66	Interactions of Ionic Liquids and Spirocyclic Compounds with Liposome Model Membranes. A Steady-State Fluorescence Anisotropy Study. Scientific Reports, 2019, 9, 18349.	1.6	10
67	Inhibition of hyperthermostable xylanases by superbase ionic liquids. Process Biochemistry, 2020, 95, 148-156.	1.8	10
68	Clustered Single Cellulosic Fiber Dissolution Kinetics and Mechanisms through Optical Microscopy under Limited Dissolving Conditions. Biomacromolecules, 2018, 19, 1635-1645.	2.6	7
69	On the Mechanism of the Reactivity of 1,3â€Đialkylimidazolium Salts under Basic to Acidic Conditions: A Combined Kinetic and Computational Study. Angewandte Chemie, 2018, 130, 11787-11791.	1.6	4
70	Phase-separation of cellulose from ionic liquid upon cooling: preparation of microsized particles. Cellulose, 2021, 28, 10921-10938.	2.4	4
71	Pervaporation recovery of [AMIM]Cl during wood dissolution; effect of [AMIM]Cl properties on the membrane performance. Journal of Membrane Science, 2013, 444, 9-15.	4.1	3
72	CHAPTER 5: REDUCTION OF BIOMASS RECALCITRANCE VIA IONIC LIQUID PRETREATMENTS. Materials and Energy, 2014, , 95-125.	2.5	3

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73	Screening of glycoside hydrolases and ionic liquids for fibre modification. Journal of Chemical Technology and Biotechnology, 2018, 93, 818-826.	1.6	3
74	Dioxygenase-catalysed mono-, di- and tri-oxygenation of dialkyl sulfides and thioacetals: chemoenzymatic synthesis of enantiopure cis-diol sulfoxides. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 3288-3296.	1.3	2
75	Immobilization of natural lipid biomembranes and their interactions with choline carboxylates. A nanoplasmonic sensing study. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183115.	1.4	2
76	Chemische Modifizierung der reduzierenden Enden von Cellulosenanokristallen. Angewandte Chemie, 2021, 133, 66-88.	1.6	2
77	Thermoâ€reversible cellulose micro phaseâ€separation in mixtures of methyltributylphosphonium acetate and γâ€valerolactone or DMSO. ChemPhysChem, 2022, , .	1.0	2
78	Enhanced activity of hyperthermostable Pyrococcus horikoshii endoglucanase in superbase ionic liquids. Biotechnology Letters, 0, , .	1.1	2
79	Characterization and applications of a trioctyl(3/4-vinylbenzyl)phosphonium stationary phase for use in capillary liquid chromatography. Journal of Chromatography A, 2022, 1666, 462866.	1.8	1
80	Modification of Lignocellulosics in the Dissolved State for Added Functionality. , 2020, , 65-90.		0