

Antje Potthast

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348
papers

7,727
citations

45
h-index

71
g-index

375
ext. papers

9,038
ext. citations

5.3
avg, IF

6.1
L-index

#	Paper	IF	Citations
348	The chemistry of side reactions and byproduct formation in the system NMMO/cellulose (Lyocell process). <i>Progress in Polymer Science</i> , 2001 , 26, 1763-1837	29.6	367
347	Bacterial cellulose as a material for wound treatment: Properties and modifications. A review. <i>Biotechnology Advances</i> , 2015 , 33, 1547-71	17.8	247
346	Side reaction of cellulose with common 1-alkyl-3-methylimidazolium-based ionic liquids. <i>Tetrahedron Letters</i> , 2008 , 49, 7322-7324	2	202
345	Periodate oxidation of polysaccharides for modification of chemical and physical properties. <i>Carbohydrate Research</i> , 2010 , 345, 1264-71	2.9	196
344	Effects of ball milling on the structure of cotton cellulose. <i>Cellulose</i> , 2019 , 26, 305-328	5.5	162
343	Aerogels from unaltered bacterial cellulose: application of scCO ₂ drying for the preparation of shaped, ultra-lightweight cellulosic aerogels. <i>Macromolecular Bioscience</i> , 2010 , 10, 349-52	5.5	148
342	A novel method for the determination of carbonyl groups in cellulose by fluorescence labeling. 1. Method development. <i>Biomacromolecules</i> , 2002 , 3, 959-68	6.9	145
341	Cellulose solutions in N-methylmorpholine-N-oxide (NMMO) degradation processes and stabilizers. <i>Cellulose</i> , 2002 , 9, 283-291	5.5	138
340	A novel method for the determination of carbonyl groups in cellulose by fluorescence labeling. 2. Validation and applications. <i>Biomacromolecules</i> , 2002 , 3, 969-75	6.9	122
339	A novel method for the determination of carbonyl groups in cellulose by fluorescence labeling. 3. Monitoring oxidative processes. <i>Biomacromolecules</i> , 2003 , 4, 743-9	6.9	116
338	The cellulose solvent system N,N-dimethylacetamide/lithium chloride revisited: the effect of water on physicochemical properties and chemical stability. <i>Cellulose</i> , 2002 , 9, 41-53	5.5	113
337	Selective Enzymic Oxidation of Aromatic Methyl Groups to Aldehydes. <i>Journal of Organic Chemistry</i> , 1995 , 60, 4320-4321	4.2	111
336	A novel method for conversion of benzyl alcohols to benzaldehydes by laccase-catalysed oxidation. <i>Journal of Molecular Catalysis A</i> , 1996 , 108, 5-9		93
335	Degradation of cellulosic materials by heating in DMAc/LiCl. <i>Tetrahedron Letters</i> , 2002 , 43, 7757-7759	2	89
334	Comparison testing of methods for gel permeation chromatography of cellulose: coming closer to a standard protocol. <i>Cellulose</i> , 2015 , 22, 1591-1613	5.5	83
333	Degradation and Crystallization of Cellulose in Hydrogen Chloride Vapor for High-Yield Isolation of Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14455-14458	16.4	83
332	Cellulose aerogels: Highly porous, ultra-lightweight materials. <i>Holzforschung</i> , 2008 , 62, 129-135	2	83

331	Studies on oxidative modifications of cellulose in the periodate system: Molecular weight distribution and carbonyl group profiles. <i>Holzforschung</i> , 2007 , 61, 662-667	2	81
330	Steam explosion pretreatment for enhancing biogas production of late harvested hay. <i>Bioresource Technology</i> , 2014 , 166, 403-10	11	80
329	The FDAM method: determination of carboxyl profiles in cellulosic materials by combining group-selective fluorescence labeling with GPC. <i>Biomacromolecules</i> , 2006 , 7, 1743-50	6.9	77
328	Overview of Methods for the Direct Molar Mass Determination of Cellulose. <i>Molecules</i> , 2015 , 20, 10313-48	4.8	68
327	On the conformation of the cellulose solvent N-methylmorpholine-N-oxide (NMMO) in solution. <i>Polymer</i> , 2003 , 44, 6153-6158	3.9	68
326	Analysis of Oxidized Functionalities in Cellulose 2006 , 1-48		67
325	Biogas production from reed biomass: Effect of pretreatment using different steam explosion conditions. <i>Biomass and Bioenergy</i> , 2016 , 95, 84-91	5.3	61
324	Sorption properties of TEMPO-oxidized natural and man-made cellulose fibers. <i>Carbohydrate Polymers</i> , 2009 , 77, 791-798	10.3	59
323	Loading of Bacterial Cellulose Aerogels with Bioactive Compounds by Antisolvent Precipitation with Supercritical Carbon Dioxide. <i>Macromolecular Symposia</i> , 2010 , 294, 64-74	0.8	58
322	Transparent, Flexible, and Strong 2,3-Dialdehyde Cellulose Films with High Oxygen Barrier Properties. <i>Biomacromolecules</i> , 2018 , 19, 2969-2978	6.9	58
321	Effects of periodate oxidation on cellulose polymorphs. <i>Cellulose</i> , 2015 , 22, 2245-2261	5.5	57
320	Hydrolytic processes and condensation reactions in the cellulose solvent system N,N-dimethylacetamide/lithium chloride. Part 2: degradation of cellulose. <i>Polymer</i> , 2003 , 44, 7-17	3.9	57
319	Corn stover for biogas production: Effect of steam explosion pretreatment on the gas yields and on the biodegradation kinetics of the primary structural compounds. <i>Bioresource Technology</i> , 2017 , 244, 949-956	11	56
318	Electron Beam Irradiation of Cellulosic Materials-Opportunities and Limitations. <i>Materials</i> , 2013 , 6, 1584-1598	3.5	54
317	Cellulosic aerogels as ultra-lightweight materials. Part 2: Synthesis and properties 2nd ICC 2007, Tokyo, Japan, October 25-29, 2007. <i>Holzforschung</i> , 2009 , 63,	2	54
316	Iron gall ink-induced corrosion of cellulose: aging, degradation and stabilization. Part 1: model paper studies. <i>Cellulose</i> , 2008 , 15, 849-859	5.5	53
315	Synthesis and Characterization of Periodate-Oxidized Polysaccharides: Dialdehyde Xylan (DAX). <i>Biomacromolecules</i> , 2016 , 17, 2972-80	6.9	52
314	Changes in the intra- and inter-fibrillar structure of lyocell (TENCEL [®]) fibers caused by NaOH treatment. <i>Cellulose</i> , 2009 , 16, 37-52	5.5	51

313	Dissolution behavior of different celluloses. <i>Biomacromolecules</i> , 2011 , 12, 871-9	6.9	50
312	Oxidative modifications of cellulose in the periodate system [Reduction and beta-elimination reactions 2nd ICC 2007, Tokyo, Japan, October 25-29, 2007. <i>Holzforschung</i> , 2009 , 63,	2	50
311	Autocatalytic Decomposition of N-Methylmorpholine N-Oxide Induced by Mannich Intermediates. <i>Journal of Organic Chemistry</i> , 1999 , 64, 2166-2167	4.2	49
310	Characterization of technical lignins by NMR spectroscopy: optimization of functional group analysis by 31P NMR spectroscopy. <i>Holzforschung</i> , 2015 , 69, 807-814	2	48
309	Isolation and identification of residual chromophores in cellulosic materials. <i>Polymer</i> , 2004 , 45, 6437-6443	3.9	48
308	Thermal aging of 1-alkyl-3-methylimidazolium ionic liquids and its effect on dissolved cellulose. <i>Holzforschung</i> , 2010 , 64,	2	47
307	The investigation of the influence of water and temperature on the LiCl/DMAc/cellulose system. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 1842-1847	3.6	46
306	On the Nature of Carbonyl Groups in Cellulosic Pulps. <i>Cellulose</i> , 2005 , 12, 43-50	5.5	46
305	Discoloration of cellulose solutions in N-methylmorpholine-N-oxide (Lyocell). Part 2: Isolation and identification of chromophores. <i>Cellulose</i> , 2005 , 12, 197-208	5.5	46
304	Lignocellulose Nanofiber-Reinforced Polystyrene Produced from Composite Microspheres Obtained in Suspension Polymerization Shows Superior Mechanical Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13520-5	9.5	46
303	Oxidation of oat β -glucan in aqueous solutions during processing. <i>Carbohydrate Polymers</i> , 2012 , 87, 589-597	7.3	45
302	A general, selective, high-yield N-demethylation procedure for tertiary amines by solid reagents in a convenient column chromatography-like setup. <i>Organic Letters</i> , 2004 , 6, 541-4	6.2	45
301	Chemical Pulping Prozesse: Sections 4.1 & 4.2. 5109-229		44
300	Getting Closer to Absolute Molar Masses of Technical Lignins. <i>ChemSusChem</i> , 2018 , 11, 3259-3268	8.3	43
299	Silica modified cellulosic aerogels. <i>Cellulose</i> , 2011 , 18, 143-149	5.5	43
298	Chromophores in cellulose, VI. First isolation and identification of residual chromophores from aged cotton linters. <i>Cellulose</i> , 2011 , 18, 1623-1633	5.5	43
297	Compatibility of Kraft Lignin, Organosolv Lignin and Lignosulfonate With PLA in 3D Printing. <i>Journal of Wood Chemistry and Technology</i> , 2019 , 39, 14-30	2	42
296	Isolation and identification of residual chromophores from aged bleached pulp samples. <i>Holzforschung</i> , 2007 , 61, 656-661	2	41

295	Irradiation of cellulosic pulps: understanding its impact on cellulose oxidation. <i>Biomacromolecules</i> , 2012 , 13, 4171-8	6.9	40
294	Evaluation of different derivatisation approaches for gas chromatographic-mass spectrometric analysis of carbohydrates in complex matrices of biological and synthetic origin. <i>Journal of Chromatography A</i> , 2013 , 1281, 115-26	4.5	39
293	Iron gall ink-induced corrosion of cellulose: aging, degradation and stabilization. Part 2: application on historic sample material. <i>Cellulose</i> , 2008 , 15, 861-870	5.5	39
292	Regeneration of Aqueous Periodate Solutions by Ozone Treatment: A Sustainable Approach for Dialdehyde Cellulose Production. <i>ChemSusChem</i> , 2016 , 9, 825-33	8.3	37
291	Chromophores in lignin-free cellulosic materials belong to three compound classes. Chromophores in cellulose, XII. <i>Cellulose</i> , 2015 , 22, 1053-1062	5.5	35
290	Upgrading of paper grade pulps to dissolving pulps by nitren extraction: yields, molecular and supramolecular structures of nitren extracted pulps. <i>Cellulose</i> , 2008 , 15, 739-750	5.5	35
289	Fast track for quantitative isolation of lignosulfonates from spent sulfite liquors. <i>RSC Advances</i> , 2015 , 5, 92732-92742	3.7	34
288	Stabilization and first direct spectroscopic evidence of the o-quinone methide derived from vitamin E. <i>Organic Letters</i> , 2002 , 4, 4285-8	6.2	34
287	Fabrication of bacterial cellulose-based wound dressings with improved performance by impregnation with alginate. <i>Materials Science and Engineering C</i> , 2020 , 110, 110619	8.3	34
286	Properties of Cellulosic Material after Cationization in Different Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2295-2301	8.3	33
285	Formation of carbonyl groups on cellulose during ozone treatment of pulp: consequences for pulp bleaching. <i>Carbohydrate Polymers</i> , 2014 , 109, 85-91	10.3	33
284	Superbase ionic liquids for effective cellulose processing from dissolution to carbonisation. <i>Green Chemistry</i> , 2017 , 19, 5949-5957	10	33
283	Investigation on metastable solution of cellulose dissolved in NaOH/urea aqueous system at low temperature. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12801-8	3.4	33
282	Drying of a cellulose II gel: effect of physical modification and redispersibility in water. <i>Cellulose</i> , 2017 , 24, 1199-1209	5.5	32
281	Soaking of pine wood chips with ionic liquids for reduced energy input during grinding. <i>Green Chemistry</i> , 2012 , 14, 1079	10	32
280	AKD-Modification of bacterial cellulose aerogels in supercritical CO ₂ . <i>Cellulose</i> , 2012 , 19, 1337-1349	5.5	32
279	Ethoximation-silylation approach for mono- and disaccharide analysis and characterization of their identification parameters by GC/MS. <i>Talanta</i> , 2013 , 115, 642-51	6.2	31
278	Yellowing and brightness reversion of celluloses: CO or COOH, who is the culprit?. <i>Cellulose</i> , 2019 , 26, 429-444	5.5	31

277	New Opportunities in the Valorization of Technical Lignins. <i>ChemSusChem</i> , 2021 , 14, 1016-1036	8.3	31
276	Spruce milled wood lignin: linear, branched or cross-linked?. <i>Green Chemistry</i> , 2020 , 22, 3985-4001	10	30
275	Synthesis of redispersible spherical cellulose II nanoparticles decorated with carboxylate groups. <i>Green Chemistry</i> , 2016 , 18, 1465-1468	10	30
274	Controlled precipitation and purification of hemicellulose from DMSO and DMSO/water mixtures by carbon dioxide as anti-solvent. <i>Journal of Supercritical Fluids</i> , 2010 , 53, 121-130	4.2	30
273	The Reaction of Phenolic Model Compounds in the Laccase-Mediator System (LMS) Investigations by Matrix Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF-MS). <i>Holzforschung</i> , 1999 , 53, 175-180	2	30
272	Nanostructured Cellulose II Gel Consisting of Spherical Particles. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4424-4432	8.3	29
271	Cellulose degradation in alkaline media upon acidic pretreatment and stabilisation. <i>Carbohydrate Polymers</i> , 2014 , 100, 185-94	10.3	29
270	Surface properties and porosity of highly porous, nanostructured cellulose II particles. <i>Cellulose</i> , 2017 , 24, 435-440	5.5	28
269	Silane meets click chemistry: towards the functionalization of wet bacterial cellulose sheets. <i>ChemSusChem</i> , 2015 , 8, 680-7	8.3	28
268	The effect of 1-ethyl-3-methylimidazolium acetate on the enzymatic degradation of cellulose. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 99, 121-129		26
267	Structural Investigations of N-modified Lignins by 15N-NMR Spectroscopy and Possible Pathways for Formation of Nitrogen Containing Compounds Related to Lignin. <i>Holzforschung</i> , 1996 , 50, 554-562	2	26
266	Aqueous Modification of Nano- and Microfibrillar Cellulose with a Click Synthon. <i>ChemSusChem</i> , 2016 , 9, 75-9	8.3	25
265	Insights into degradation pathways of oxidized anhydroglucose units in cellulose by E1cB-alkoxy-elimination: a combined theoretical and experimental approach. <i>Cellulose</i> , 2018 , 25, 3797-3814	5.5	25
264	Fast Track to Molar-Mass Distributions of Technical Lignins. <i>ChemSusChem</i> , 2017 , 10, 629-635	8.3	25
263	Buran Endwise Peeling of Celluloses: Mechanistic Studies and Application Perspectives of a Novel Reaction. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 475-484	3.2	25
262	Cellulosic fines: Properties and effects. <i>Progress in Materials Science</i> , 2016 , 83, 574-594	42.2	25
261	The effect of a combined biological and thermo-mechanical pretreatment of wheat straw on energy yields in coupled ethanol and methane generation. <i>Bioresource Technology</i> , 2015 , 194, 7-13	11	24
260	Effect of sonochemical treatments on the integrity and oxidation state of cellulose. <i>Carbohydrate Polymers</i> , 2013 , 92, 921-7	10.3	24

259	Cationization of cellulose by using N-oxiranylmethyl-N-methylmorpholinium chloride and 2-oxiranylpyridine as etherification agents. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 1449-1456	2.9	24
258	Alkaline degradation kinetics and CE-separation of cello- and xylooligomers. Part I. <i>Carbohydrate Research</i> , 2003 , 338, 1209-16	2.9	24
257	Chromophores in cellulose, XI: isolation and identification of residual chromophores from bacterial cellulose. <i>Cellulose</i> , 2014 , 21, 2271-2283	5.5	23
256	Studies of the chemoenzymatic modification of cellulosic pulps by the laccase-TEMPO system. <i>Holzforschung</i> , 2011 , 65,	2	23
255	Cross-sectional analysis of the polysaccharide composition in cellulosic fiber materials by enzymatic peeling/high-performance capillary zone electrophoresis. <i>Biomacromolecules</i> , 2005 , 6, 3146-51	6.9	23
254	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. <i>Cellulose</i> , 2015 , 22, 3583-3596	5.5	22
253	Nano meets the sheet: adhesive-free application of nanocellulosic suspensions in paper conservation. <i>Heritage Science</i> , 2017 , 5,	2.5	22
252	Deterioration of ancient cellulose paper, Hanji: evaluation of paper permanence. <i>Cellulose</i> , 2014 , 21, 4621-4632	5.5	22
251	A fast track for the accurate determination of methoxyl and ethoxyl groups in lignin. <i>RSC Advances</i> , 2017 , 7, 22974-22982	3.7	21
250	Determination of molar mass distributions of highly oxidized dialdehyde cellulose by size exclusion chromatography and asymmetric flow field-flow fractionation. <i>Cellulose</i> , 2015 , 22, 3569-3581	5.5	21
249	Self-Standing Nanocellulose Janus-Type Films with Aldehyde and Carboxyl Functionalities. <i>Biomacromolecules</i> , 2018 , 19, 973-979	6.9	21
248	A General Aqueous Silanization Protocol to Introduce Vinyl, Mercapto or Azido Functionalities onto Cellulose Fibers and Nanocelluloses. <i>Molecules</i> , 2018 , 23,	4.8	21
247	Bacterial Cellulose Aerogels: From Lightweight Dietary Food to Functional Materials. <i>ACS Symposium Series</i> , 2012 , 57-74	0.4	21
246	Formation and ecotoxicity of N-heterocyclic compounds on ammoxidation of mono- and polysaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 9004-14	5.7	20
245	The influence of alkaline reserve on the aging behavior of book papers. <i>Cellulose</i> , 2013 , 20, 1989-2001	5.5	20
244	Nano-cellulosic materials: the impact of water on their dissolution in DMAc/LiCl. <i>Carbohydrate Polymers</i> , 2013 , 98, 1565-72	10.3	20
243	Polymorphism in the crystal structure of the cellulose fragment analogue methyl 4-O-methyl-beta-D-glucopyranosyl-(1-4)-beta-D-glucopyranoside. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4277-81	16.4	20
242	Discoloration of cellulose solutions in N-methylmorpholine-N-oxide (Lyocell). Part 1: Studies on model compounds and pulps. <i>Cellulose</i> , 2005 , 12, 51-57	5.5	20

241	Instabilities in the System NMMO/Water/Cellulose (Lyocell Process) Caused by Polonowski Type Reactions. <i>Holzforschung</i> , 2002 , 56, 199-208	2	20
240	Molar mass-dependent profiles of functional groups and carbohydrates in kraft lignin. <i>Journal of Wood Chemistry and Technology</i> , 2017 , 37, 171-183	2	19
239	Finally Dissolved! Activation Procedures to Dissolve Cellulose in DMAc/LiCl Prior to Size Exclusion Chromatography Analysis [A Review]. <i>Current Chromatography</i> , 2014 , 1, 52-68	0.4	19
238	Studies on DMSO-containing carbanilation mixtures: chemistry, oxidations and cellulose integrity. <i>Cellulose</i> , 2007 , 14, 497-511	5.5	19
237	Calixarene-type macrocycles by oxidation of phenols related to vitamin E. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 1171-3	16.4	19
236	Discoloration of cellulose solutions in N-methylmorpholine-N-oxide (Lyocell). Part 1: Studies on model compounds and pulps. <i>Cellulose</i> , 2005 , 12, 51-57	5.5	19
235	Synthesis and oxidation behavior of 2,4,5,7,8-pentamethyl-4H-1,3-benzodioxin-6-ol, a multifunctional oxatocopherol-type antioxidant. <i>Journal of Organic Chemistry</i> , 2002 , 67, 3607-14	4.2	19
234	A SOLVENT-FREE AND FORMALIN-FREE ESCHWEILER-CLARKE METHYLATION FOR AMINES. <i>Synthetic Communications</i> , 2002 , 32, 457-466	1.7	19
233	Laccase-catalyzed oxidation of 1-(3,4-dimethoxyphenyl)-1-propene using ABTS as mediator. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2000 , 8, 213-219		19
232	Wet esterification of never-dried cellulose: a simple process to surface-acetylated cellulose nanofibers. <i>Green Chemistry</i> , 2020 , 22, 5605-5609	10	19
231	Chromophores from hexeneuronic acids: identification of HexA-derived chromophores. <i>Cellulose</i> , 2017 , 24, 3671-3687	5.5	18
230	Reactivity of dissolving pulps modified by TEMPO-mediated oxidation. <i>Cellulose</i> , 2012 , 19, 1125-1134	5.5	18
229	Ionic liquids as media for biomass processing: opportunities and restrictions. <i>Holzforschung</i> , 2011 , 65,	2	18
228	Synthesis of oxidized methyl 4-O-methyl-beta-D-glucopyranoside and methyl beta-D-glucopyranosyl-(1->4)-beta-D-glucopyranoside derivatives as substrates for fluorescence labeling reactions. <i>Carbohydrate Research</i> , 2002 , 337, 691-700	2.9	18
227	The effect of water on cellulose solutions in DMAc/LiCl. <i>Macromolecular Symposia</i> , 2002 , 190, 151-160	0.8	18
226	Soft cellulose II nanospheres: sol-gel behaviour, swelling and material synthesis. <i>Nanoscale</i> , 2019 , 11, 17773-17781	7.7	17
225	Crystal and molecular structure of methyl 4-O-methyl-beta-D-glucopyranosyl-(1->4)-beta-D-glucopyranoside. <i>Carbohydrate Research</i> , 2002 , 337, 161-6	2.9	17
224	Non-woven fabrics of fine regenerated cellulose fibers prepared from ionic-liquid solution via wet type solution blow spinning. <i>Carbohydrate Polymers</i> , 2019 , 226, 115258	10.3	16

223	Synthesis, characterization and photo-bactericidal activity of silanized xanthene-modified bacterial cellulose membranes. <i>Cellulose</i> , 2015 , 22, 3291-3304	5.5	16
222	Preparation and analytical characterisation of pure fractions of cellooligosaccharides. <i>Journal of Chromatography A</i> , 2016 , 1431, 47-54	4.5	16
221	Effect of pretreatment on arabinoxylan distribution in wheat bran. <i>Carbohydrate Polymers</i> , 2015 , 121, 18-26	10.3	16
220	Is cellulose degradation due to elimination processes a threat in mass deacidification of library books?. <i>Cellulose</i> , 2012 , 19, 1149-1159	5.5	16
219	Confirmation of the Presence of Formaldehyde and N-(Methylene)morpholinium Cations as Reactive Species in the Cellulose/NMMO/Water System by Trapping Reactions. <i>Holzforschung</i> , 2000 , 54, 101-103	2	16
218	Deterioration of ancient Korean paper (Hanji), treated with beeswax: a mechanistic study. <i>Carbohydrate Polymers</i> , 2014 , 101, 1249-54	10.3	15
217	Dissolution of rayon fibers for size exclusion chromatography: a challenge. <i>Cellulose</i> , 2014 , 21, 3291-3304	3.5	15
216	Understanding the Impact of Supercritical Carbon Dioxide on the Delignification Mechanism During Organosolv Pulping: A Model Compound Study. <i>Journal of Wood Chemistry and Technology</i> , 2012 , 32, 225-237	2	15
215	An evaluation of tritium and fluorescence labelling combined with multi-detector SEC for the detection of carbonyl groups in polysaccharides. <i>Carbohydrate Polymers</i> , 2009 , 76, 196-205	10.3	15
214	A fluorescence labeling approach to assess the deterioration state of aged papers. <i>Cellulose</i> , 2006 , 13, 421-428	5.5	15
213	Studies on the carbenium-iminium ions derived from N-methylmorpholine-N-oxide (NMMO). <i>Tetrahedron</i> , 2004 , 60, 301-306	2.4	15
212	Isolation and Identification of Residual Chromophores in Cellulosic Materials. <i>Macromolecular Symposia</i> , 2005 , 223, 239-252	0.8	15
211	Synthesis and Testing of a Novel Fluorescence Label for Carbonyls in Carbohydrates and Cellulosics. <i>Synlett</i> , 2001 , 2001, 0682-0684	2.2	15
210	Aging of paper - Ultra-fast quantification of 2,5-dihydroxyacetophenone, as a key chromophore in cellulose, by reactive paper spray-mass spectrometry. <i>Talanta</i> , 2017 , 167, 672-680	6.2	14
209	On the mechanism of the unwanted acetylation of polysaccharides by 1,3-dialkylimidazolium acetate ionic liquids: part 2 - the impact of lignin on the kinetics of cellulose acetylation. <i>Cellulose</i> , 2017 , 24, 2767-2774	5.5	14
208	Molecular weight distribution and functional group profiles of TEMPO-oxidized lyocell fibers. <i>Carbohydrate Polymers</i> , 2013 , 98, 444-50	10.3	14
207	Potential of different Sorghum bicolor (L. moench) varieties for combined ethanol and biogas production in the Pannonian climate of Austria. <i>Energy</i> , 2013 , 55, 107-113	7.9	14
206	Wash-dry cycle induced changes in low-ordered parts of regenerated cellulosic fibers. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E397-E408	2.9	14

205	Non-destructive determination of cellulose functional groups and molecular weight in pulp hand sheets and historic papers by NIR-PLS-R. <i>Carbohydrate Polymers</i> , 2009 , 76, 374-380	10.3	14
204	Precipitation of Hemicelluloses from DMSO/Water Mixtures Using Carbon Dioxide as an Antisolvent. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-5	3.2	14
203	Thermal Reactions of N-Methyl-morpholine-N-oxide (NMMO): A General Method for Separation and Quantification of N-Methyl-morpholine-N-oxide and its Main Degradation Products N-Methylmorpholine and Morpholine by Capillary Electrophoresis (CE). <i>Holzforschung</i> , 2000 , 54, 641-646	2	14
202	Unique reactivity of nanoporous cellulosic materials mediated by surface-confined water. <i>Nature Communications</i> , 2021 , 12, 2513	17.4	14
201	Knoevenagel Condensation for Modifying the Reducing End Groups of Cellulose Nanocrystals. <i>ACS Macro Letters</i> , 2019 , 8, 1642-1647	6.6	14
200	Ball Milling's Effect on Pine Milled Wood Lignin's Structure and Molar Mass. <i>Molecules</i> , 2018 , 23,	4.8	14
199	Mechanochemical reactions of cellulose and styrene. <i>Cellulose</i> , 2015 , 22, 3217-3224	5.5	13
198	Understanding laccase/HBT-catalyzed grass delignification at the molecular level. <i>Green Chemistry</i> , 2020 , 22, 1735-1746	10	13
197	Electrically Conducting Carbon Microparticles by Direct Carbonization of Spent Wood Pulping Liquor. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3385-3391	8.3	13
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