Thomas Rosenau

List of Publications by Year
in descending order

380	10,466	34076	62565
papers	citations	52 h-index	80 g-index

405	405	405	9099
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The chemistry of side reactions and byproduct formation in the system NMMO/cellulose (Lyocell) Tj ETQq1 1 0.784314 rgBT /Overloc	11.8	431
2	Bacterial cellulose as a material for wound treatment: Properties and modifications. A review. Biotechnology Advances, 2015, 33, 1547-1571.	6.0	330
3	Effects of ball milling on the structure of cotton cellulose. Cellulose, 2019, 26, 305-328.	2.4	253
4	Side reaction of cellulose with common 1-alkyl-3-methylimidazolium-based ionic liquids. Tetrahedron Letters, 2008, 49, 7322-7324.	0.7	225
5	Aerogels from Unaltered Bacterial Cellulose: Application of scCO₂ Drying for the Preparation of Shaped, Ultraâ€Lightweight Cellulosic Aerogels. Macromolecular Bioscience, 2010, 10, 349-352.	2.1	175
6	A Novel Method for the Determination of Carbonyl Groups in Cellulosics by Fluorescence Labeling. 1. Method Development. Biomacromolecules, 2002, 3, 959-968.	2.6	163
7	Cellulose solutions in N-methylmorpholine-N-oxide (NMMO) â€“ degradation processes and stabilizers. Cellulose, 2002, 9, 283-291.	2.4	163
8	A Novel Method for the Determination of Carbonyl Groups in Cellulosics by Fluorescence Labeling. 2. Validation and Applications. Biomacromolecules, 2002, 3, 969-975.	2.6	136
9	3D printing of nanocellulose hydrogel scaffolds with tunable mechanical strength towards wound healing application. Journal of Materials Chemistry B, 2018, 6, 7066-7075.	2.9	129
10	Title is missing!. Cellulose, 2002, 9, 41-53.	2.4	128
11	A Novel Method for the Determination of Carbonyl Groups in Cellulosics by Fluorescence Labeling. 3. Monitoring Oxidative Processes. Biomacromolecules, 2003, 4, 743-749.	2.6	127
12	Current Situation of the Challenging Scaleâ€Up Development of Hydroxymethylfurfural Production. ChemSusChem, 2020, 13, 3544-3564.	3.6	127
13	Mussel Adhesive-Inspired Design of Superhydrophobic Nanofibrillated Cellulose Aerogels for Oil/Water Separation. ACS Sustainable Chemistry and Engineering, 2018, 6, 9047-9055.	3.2	125
14	Comparison testing of methods for gel permeation chromatography of cellulose: coming closer to a standard protocol. Cellulose, 2015, 22, 1591-1613.	2.4	112
15	Transparent, Flexible, and Strong 2,3-Dialdehyde Cellulose Films with High Oxygen Barrier Properties. Biomacromolecules, 2018, 19, 2969-2978.	2.6	109
16	Degradation of cellulosic materials by heating in DMAc/LiCl. Tetrahedron Letters, 2002, 43, 7757-7759.	0.7	99
17	Cellulose aerogels: Highly porous, ultra-lightweight materials. Holzforschung, 2008, 62, 129-135.	0.9	96
18	New Opportunities in the Valorization of Technical Lignins. ChemSusChem, 2021, 14, 1016-1036.	3.6	94

#	Article	IF	Citations
19	Studies on oxidative modifications of cellulose in the periodate system: Molecular weight distribution and carbonyl group profiles. Holzforschung, 2007, 61, 662-667.	0.9	93
20	Impact of selected solvent systems on the pore and solid structure of cellulose aerogels. Cellulose, 2016, 23, 1949-1966.	2.4	88
21	Synthesis and Characterization of Periodate-Oxidized Polysaccharides: Dialdehyde Xylan (DAX). Biomacromolecules, 2016, 17, 2972-2980.	2.6	87
22	Cellulosic aerogels as ultra-lightweight materials. Part 2: Synthesis and properties 2nd ICC 2007, Tokyo, Japan, October 25â€“29, 2007. Holzforschung, 2009, 63, 3-11.	0.9	81
23	Spruce milled wood lignin: linear, branched or cross-linked?. Green Chemistry, 2020, 22, 3985-4001.	4.6	81
24	Overview of Methods for the Direct Molar Mass Determination of Cellulose. Molecules, 2015, 20, 10313-10341.	1.7	80
25	Yellowing and brightness reversion of celluloses: CO or COOH, who is the culprit?. Cellulose, 2019, 26, 429-444.	2.4	79
26	Effects of periodate oxidation on cellulose polymorphs. Cellulose, 2015, 22, 2245-2261.	2.4	78
27	Getting Closer to Absolute Molar Masses of Technical Lignins. ChemSusChem, 2018, 11, 3259-3268.	3.6	76
28	Analysis of Oxidized Functionalities in Cellulose. , 2006, , 1-48.		75
29	Electron Beam Irradiation of Cellulosic Materialsâ€”Opportunities and Limitations. Materials, 2013, 6, 1584-1598.	1.3	74
30	Compatibility of Kraft Lignin, Organosolv Lignin and Lignosulfonate With PLA in 3D Printing. Journal of Wood Chemistry and Technology, 2019, 39, 14-30.	0.9	73
31	Oxidative modifications of cellulose in the periodate system â€“ Reduction and beta-elimination reactions 2nd ICC 2007, Tokyo, Japan, October 25â€“29, 2007. Holzforschung, 2009, 63, 12-17.	0.9	72
32	Loading of Bacterial Cellulose Aerogels with Bioactive Compounds by Antisolvent Precipitation with Supercritical Carbon Dioxide. Macromolecular Symposia, 2010, 294, 64-74.	0.4	69
33	Characterization of technical lignins by NMR spectroscopy: optimization of functional group analysis by ³¹P NMR spectroscopy. Holzforschung, 2015, 69, 807-814.	0.9	69
34	Fabrication of bacterial cellulose-based wound dressings with improved performance by impregnation with alginate. Materials Science and Engineering C, 2020, 110, 110619.	3.8	69
35	Vitamin E Chemistry. Nitration of Non-Î±-tocopherols:Â Products and Mechanistic Considerations. Journal of Organic Chemistry, 2007, 72, 6504-6512.	1.7	68
36	On the Nature of Carbonyl Groups in Cellulosic Pulps. Cellulose, 2005, 12, 43-50.	2.4	66

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37	Thermal aging of 1-alkyl-3-methylimidazolium ionic liquids and its effect on dissolved cellulose. Holzforschung, 2010, 64, .	0.9	63
38	Hydrolytic processes and condensation reactions in the cellulose solvent system N,N-dimethylacetamide/lithium chloride. Part 2: degradation of cellulose. Polymer, 2003, 44, 7-17.	1.8	62
39	Isolation and identification of residual chromophores in cellulosic materials. Polymer, 2004, 45, 6437-6443.	1.8	62
40	Antioxidant Properties of Natural and Synthetic Chromanol Derivatives:Â Study by Fast Kinetics and Electron Spin Resonance Spectroscopy. Journal of Organic Chemistry, 2005, 70, 3472-3483.	1.7	62
41	Changes in the intra- and inter-fibrillar structure of lyocell (TENCELÂ®) fibers caused by NaOH treatment. Cellulose, 2009, 16, 37-52.	2.4	62
42	Lignin solubility in nonâ€imidazolium ionic liquids. Journal of Chemical Technology and Biotechnology, 2015, 90, 1821-1826.	1.6	62
43	The investigation of the influence of water and temperature on the LiCl/DMAc/cellulose system. Physical Chemistry Chemical Physics, 2003, 5, 1842-1847.	1.3	60
44	Theoretical Foundation for the Presence of Oxacarbenium Ions in Chemical Glycoside Synthesis. Journal of Organic Chemistry, 2014, 79, 7889-7894.	1.7	60
45	A comparison between near-infrared (NIR) and mid-infrared (ATR-FTIR) spectroscopy for the multivariate determination of compositional properties in wheat bran samples. Food Control, 2016, 60, 365-369.	2.8	60
46	A General, Selective, High-Yield N-Demethylation Procedure for Tertiary Amines by Solid Reagents in a Convenient Column Chromatography-like Setup. Organic Letters, 2004, 6, 541-544.	2.4	59
47	Synthesis of Gold Nanoparticles for Inâ€…Situ Conjugation with Structural Carbohydrates. Angewandte Chemie - International Edition, 2008, 47, 9866-9869.	7.2	59
48	Dissolution Behavior of Different Celluloses. Biomacromolecules, 2011, 12, 871-879.	2.6	59
49	Regeneration of Aqueous Periodate Solutions by Ozone Treatment: A Sustainable Approach for Dialdehyde Cellulose Production. ChemSusChem, 2016, 9, 825-833.	3.6	59
50	Autocatalytic Decomposition ofN-MethylmorpholineN-Oxide Induced by Mannich Intermediates. Journal of Organic Chemistry, 1999, 64, 2166-2167.	1.7	57
51	Synthesis and Characterization of EMPO-Derived 5,5-Disubstituted 1-Pyrroline N-Oxides as Spin Traps Forming Exceptionally Stable Superoxide Spin Adducts. Biological Chemistry, 2003, 384, 493-500.	1.2	57
52	Unique reactivity of nanoporous cellulosic materials mediated by surface-confined water. Nature Communications, 2021, 12, 2513.	5.8	57
53	Discoloration of cellulose solutions in N-methylmorpholine-N-oxide (Lyocell). Part 2: Isolation and identification of chromophores. Cellulose, 2005, 12, 197-208.	2.4	56
54	Chromophores in lignin-free cellulosic materials belong to three compound classes. Chromophores in cellulosics, XII. Cellulose, 2015, 22, 1053-1062.	2.4	56

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55	Irradiation of Cellulosic Pulps: Understanding Its Impact on Cellulose Oxidation. Biomacromolecules, 2012, 13, 4171-4178.	2.6	54
56	Increased anthocyanin content in purple pericarpÂÃ—Âblue aleurone wheat crosses. Plant Breeding, 2013, 132, 546-552.	1.0	54
57	From a Theoretical Concept to Biochemical Reactions: Strain-Induced Bond Localization (SIBL) in Oxidation of Vitamin E. Chemistry - A European Journal, 2005, 11, 280-287.	1.7	53
58	van der Waals versus Hydrogen-Bonding Forces in a Crystalline Analog of Cellotetraose: Cyclohexyl 4â€²-O-Cyclohexyl Î²-<scp>d</scp>-Cellobioside Cyclohexane Solvate. Journal of the American Chemical Society, 2008, 130, 16678-16690.	6.6	53
59	Preparation and Reinforcement of Dualâ€Porous Biocompatible Cellulose Scaffolds for Tissue Engineering. Macromolecular Materials and Engineering, 2015, 300, 911-924.	1.7	52
60	Arabinoxylan Oligosaccharide Hydrolysis by Family 43 and 51 Glycosidases from Lactobacillus brevis DSM 20054. Applied and Environmental Microbiology, 2013, 79, 6747-6754.	1.4	51
61	Properties of Cellulosic Material after Cationization in Different Solvents. ACS Sustainable Chemistry and Engineering, 2016, 4, 2295-2301.	3.2	51
62	Chromophores in cellulosics, VI. First isolation and identification of residual chromophores from aged cotton linters. Cellulose, 2011, 18, 1623-1633.	2.4	50
63	Fluorescent cellulose aerogels containing covalently immobilized (ZnS)x(CuInS2)1â^'x/ZnS (core/shell) quantum dots. Cellulose, 2013, 20, 3007-3024.	2.4	49
64	Isolation and identification of residual chromophores from aged bleached pulp samples. Holzforschung, 2007, 61, 656-661.	0.9	48
65	Silica modified cellulosic aerogels. Cellulose, 2011, 18, 143-149.	2.4	48
66	Drying of a cellulose II gel: effect of physical modification and redispersibility in water. Cellulose, 2017, 24, 1199-1209.	2.4	48
67	Insights into degradation pathways of oxidized anhydroglucose units in cellulose by Î²-alkoxy-elimination: a combined theoretical and experimental approach. Cellulose, 2018, 25, 3797-3814.	2.4	48
68	Dry, hydrophobic microfibrillated cellulose powder obtained in a simple procedure using alkyl ketene dimer. Cellulose, 2016, 23, 1189-1197.	2.4	47
69	Synthesis of redispersible spherical cellulose II nanoparticles decorated with carboxylate groups. Green Chemistry, 2016, 18, 1465-1468.	4.6	46
70	A General Aqueous Silanization Protocol to Introduce Vinyl, Mercapto or Azido Functionalities onto Cellulose Fibers and Nanocelluloses. Molecules, 2018, 23, 1427.	1.7	46
71	Structural elucidation of fucoidan from Cladosiphon okamuranus (Okinawa mozuku). Food Chemistry, 2019, 272, 222-226.	4.2	46
72	Silane Meets Click Chemistry: Towards the Functionalization of Wet Bacterial Cellulose Sheets. ChemSusChem, 2015, 8, 680-687.	3.6	43

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73	Thermal stability of cellulose insulation in electrical power transformers â€“ A review. Carbohydrate Polymers, 2021, 252, 117196.	5.1	43
74	Wet esterification of never-dried cellulose: a simple process to surface-acetylated cellulose nanofibers. Green Chemistry, 2020, 22, 5605-5609.	4.6	41
75	Tailored Thermosetting Wood Adhesive Based on Well-Defined Hardwood Lignin Fractions. ACS Sustainable Chemistry and Engineering, 2020, 8, 13517-13526.	3.2	41
76	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
77	Stabilization and First Direct Spectroscopic Evidence of theo-Quinone Methide Derived from Vitamin E. Organic Letters, 2002, 4, 4285-4288.	2.4	40
78	Aqueous Modification of Nanoâ€•and Microfibrillar Cellulose with a Click Synthon. ChemSusChem, 2016, 9, 75-79.	3.6	40
79	AKD-Modification of bacterial cellulose aerogels in supercritical CO2. Cellulose, 2012, 19, 1337-1349.	2.4	39
80	Nanostructured Cellulose II Gel Consisting of Spherical Particles. ACS Sustainable Chemistry and Engineering, 2016, 4, 4424-4432.	3.2	38
81	Controlled precipitation and purification of hemicellulose from DMSO and DMSO/water mixtures by carbon dioxide as anti-solvent. Journal of Supercritical Fluids, 2010, 53, 121-130.	1.6	37
82	Vitamin E Chemistry. Studies into Initial Oxidation Intermediates of Î±-Tocopherol:Â Disproving the Involvement of 5a-C-Centered â€œChromanol Methideâ€•Radicals. Journal of Organic Chemistry, 2007, 72, 3268-3281.	1.7	36
83	Soaking of pine wood chips with ionic liquids for reduced energy input during grinding. Green Chemistry, 2012, 14, 1079.	4.6	35
84	Surface properties and porosity of highly porous, nanostructured cellulose II particles. Cellulose, 2017, 24, 435-440.	2.4	35
85	Fast Track to Molarâ€•Mass Distributions of Technical Lignins. ChemSusChem, 2017, 10, 629-635.	3.6	35
86	A fast track for the accurate determination of methoxyl and ethoxyl groups in lignin. RSC Advances, 2017, 7, 22974-22982.	1.7	34
87	2D Assignment and quantitative analysis of cellulose and oxidized celluloses using solution-state NMR spectroscopy. Cellulose, 2020, 27, 7929-7953.	2.4	34
88	Formation and Ecotoxicity of N-Heterocyclic Compounds on Ammoxidation of Mono- and Polysaccharides. Journal of Agricultural and Food Chemistry, 2013, 61, 9004-9014.	2.4	33
89	Hydroxymethylfurfural and its Derivatives: Potential Key Reactants in Adhesives. ChemSusChem, 2020, 13, 5408-5422.	3.6	33
90	Analytical techniques for the elucidation of wheat bran constituents and their structural features with emphasis on dietary fiber â€“ AÂreview. Trends in Food Science and Technology, 2014, 35, 102-113.	7.8	32

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91	The influence of alkaline reserve on the aging behavior of book papers. Cellulose, 2013, 20, 1989-2001.	2.4	31
92	On the mechanism of the unwanted acetylation of polysaccharides by 1,3-dialkylimidazolium acetate ionic liquids: part 1â€"analysis, acetylating agent, influence of water, and mechanistic considerations. Cellulose, 2015, 22, 3583-3596.	2.4	31
93	â€œFuran Endwise Peelingâ€•of Celluloses: Mechanistic Studies and Application Perspectives of a Novel Reaction. European Journal of Organic Chemistry, 2008, 2008, 475-484.	1.2	30
94	The effect of 1-ethyl-3-methylimidazolium acetate on the enzymatic degradation of cellulose. Journal of Molecular Catalysis B: Enzymatic, 2014, 99, 121-129.	1.8	30
95	Self-Standing Nanocellulose Janus-Type Films with Aldehyde and Carboxyl Functionalities. Biomacromolecules, 2018, 19, 973-979.	2.6	30
96	Soft cellulose II nanospheres: solâ€“gel behaviour, swelling and material synthesis. Nanoscale, 2019, 11, 17773-17781.	2.8	30
97	High nitrogen doped carbon nanofiber aerogels for sodium ion batteries: synergy of vacancy defects to boost sodium ion storage. Applied Surface Science, 2019, 496, 143717.	3.1	30
98	Cationization of cellulose by using Nâ€•oxiranylmethylâ€•Nâ€•methylmorpholinium chloride and 2â€•oxiranylpyridine as etherification agents. Journal of Applied Polymer Science, 2009, 114, 1449-1456.	1.3	29
99	Molar mass-dependent profiles of functional groups and carbohydrates in kraft lignin. Journal of Wood Chemistry and Technology, 2017, 37, 171-183.	0.9	29
100	Interaction of ascaridole, carvacrol, and caryophyllene oxide from essential oil of Chenopodium ambrosioides L. with mitochondria in Leishmania and other eukaryotes. Phytotherapy Research, 2018, 32, 1729-1740.	2.8	29
101	Cellulose as matrix component of conducting films. Cellulose, 2011, 18, 937-944.	2.4	28
102	Effect of sonochemical treatments on the integrity and oxidation state of cellulose. Carbohydrate Polymers, 2013, 92, 921-927.	5.1	28
103	Flavonoids naringenin chalcone, naringenin, dihydrotricin, and tricin are lignin monomers in papyrus. Plant Physiology, 2022, 188, 208-219.	2.3	28
104	Kinetic and chemical studies on the isomerization of monosaccharides in N-methylmorpholine-N-oxide (NMMO) under Lyocell conditions. Carbohydrate Research, 2004, 339, 1899-1906.	1.1	27
105	Non-woven fabrics of fine regenerated cellulose fibers prepared from ionic-liquid solution via wet type solution blow spinning. Carbohydrate Polymers, 2019, 226, 115258.	5.1	27
106	Porous Silk Fibroin/Cellulose Hydrogels for Bone Tissue Engineering via a Novel Combined Process Based on Sequential Regeneration and Porogen Leaching. Molecules, 2020, 25, 5097.	1.7	27
107	A fast method to measure the degree of oxidation of dialdehyde celluloses using multivariate calibration and infrared spectroscopy. Carbohydrate Polymers, 2022, 278, 118887.	5.1	27
108	Instabilities in the System NMMO/Water/Cellulose (Lyocell Process) Caused by Polonowski Type Reactions. Holzforschung, 2002, 56, 199-208.	0.9	26

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109	Spin trapping of superoxide, alkyl- and lipid-derived radicals with derivatives of the spin trap EPPN. Biochemical Pharmacology, 2003, 66, 1717-1726.	2.0	26
110	Alkaline degradation kinetics and CE-separation of cello- and xylooligomers. Part I. Carbohydrate Research, 2003, 338, 1209-1216.	1.1	26
111	Determination of molar mass distributions of highly oxidized dialdehyde cellulose by size exclusion chromatography and asymmetric flow field-flow fractionation. Cellulose, 2015, 22, 3569-3581.	2.4	26
112	Studies of the chemoenzymatic modification of cellulosic pulps by the laccase-TEMPO system. Holzforschung, 2011, 65, .	0.9	25
113	Deterioration of ancient Korean paper (Hanji), treated with beeswax: A mechanistic study. Carbohydrate Polymers, 2014, 101, 1249-1254.	5.1	25
114	Chromophores in cellulosics, XI: isolation and identification of residual chromophores from bacterial cellulose. Cellulose, 2014, 21, 2271-2283.	2.4	25
115	Partial Amorphization of Cellulose through Zinc Chloride Treatment: A Facile and Sustainable Pathway to Functional Cellulose Nanofibers with Flame-Retardant and Catalytic Properties. ACS Sustainable Chemistry and Engineering, 2020, 8, 13576-13582.	3.2	25
116	A SOLVENT-FREE AND FORMALIN-FREE ESCHWEILER-CLARKE METHYLATION FOR AMINES. Synthetic Communications, 2002, 32, 457-466.	1.1	24
117	Discoloration of cellulose solutions in N-methylmorpholine-N-oxide (Lyocell). Part 1: Studies on model compounds and pulps. Cellulose, 2005, 12, 51-57.	2.4	24
118	Spin adduct formation from lipophilic EMPO-derived spin traps with various oxygen- and carbon-centered radicals. Biochemical Pharmacology, 2005, 69, 297-305.	2.0	24
119	Very stable superoxide radical adducts of 5-ethoxycarbonyl- 3,5-dimethyl-pyrroline N-oxide (3,5-EDPO) and its derivatives. Biochemical Pharmacology, 2005, 69, 1351-1361.	2.0	24
120	Cross-Sectional Analysis of the Polysaccharide Composition in Cellulosic Fiber Materials by Enzymatic Peeling/High-Performance Capillary Zone Electrophoresis. Biomacromolecules, 2005, 6, 3146-3151.	2.6	24
121	Tocopheryl quinones and mitochondria. Molecular Nutrition and Food Research, 2010, 54, 601-615.	1.5	24
122	Bacterial Cellulose Aerogels: From Lightweight Dietary Food to Functional Materials. ACS Symposium Series, 2012, , 57-74.	0.5	24
123	Finally Dissolved! Activation Procedures to Dissolve Cellulose in DMAc/LiCl Prior to Size Exclusion Chromatography Analysis â€“ A Review. Current Chromatography, 2014, 1, 52-68.	0.1	24
124	Synthesis, characterization and photo-bactericidal activity of silanized xanthene-modified bacterial cellulose membranes. Cellulose, 2015, 22, 3291-3304.	2.4	24
125	Ball Millingâ€™s Effect on Pine Milled Wood Ligninâ€™s Structure and Molar Mass. Molecules, 2018, 23, 2223.	1.7	24
126	Resourceâ€Saving Production of Dialdehyde Cellulose: Optimization of the Process at High Pulp Consistency. ChemSusChem, 2019, 12, 4679-4684.	3.6	24

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127	Polysaccharide- and Î²-Cyclodextrin-Based Chiral Selectors for Enantiomer Resolution: Recent Developments and Applications. Molecules, 2021, 26, 4322.	1.7	24
128	Calixarene-Type Macrocycles by Oxidation of Phenols Related to Vitamin E. Angewandte Chemie - International Edition, 2002, 41, 1171-1173.	7.2	23
129	Ionic liquids as media for biomass processing: opportunities and restrictions. Holzforschung, 2011, 65, .	0.9	23
130	Nano-cellulosic materials: The impact of water on their dissolution in DMAc/LiCl. Carbohydrate Polymers, 2013, 98, 1565-1572.	5.1	23
131	Chromophores from hexeneuronic acids: identification of HexA-derived chromophores. Cellulose, 2017, 24, 3671-3687.	2.4	23
132	Synthesis and Oxidation Behavior of 2,4,5,7,8-Pentamethyl-4H-1,3-benzodioxin-6-ol, a Multifunctional Oxatocopherol-Type Antioxidant. Journal of Organic Chemistry, 2002, 67, 3607-3614.	1.7	22
133	Discoloration of cellulose solutions in N-methylmorpholine-N-oxide (Lyocell). Part 1: Studies on model compounds and pulps. Cellulose, 2005, 12, 51-57.	2.4	22
134	Novel tocopheryl compounds XXV: synthesis and comparison of the para-quinones of all four homologous tocopherol model compounds and their 3,4-dehydro derivatives. Tetrahedron, 2007, 63, 5312-5318.	1.0	22
135	Dissolution of rayon fibers for size exclusion chromatography: a challenge. Cellulose, 2014, 21, 3291-3301.	2.4	22
136	Mechanism of ascaridole activation in Leishmania. Biochemical Pharmacology, 2017, 132, 48-62.	2.0	22
137	Profiling and quantification of grain anthocyanins in purple pericarpâ€‰Ã—â€‰blue aleurone wheat crosses by high-performance thin-layer chromatography and densitometry. Plant Methods, 2018, 14, 29.	1.9	22
138	Laccase-catalyzed oxidation of 1-(3,4-dimethoxyphenyl)-1-propene using ABTS as mediator. Journal of Molecular Catalysis B: Enzymatic, 2000, 8, 213-219.	1.8	21
139	An optimized CZE method for analysis of mono- and oligomeric aldose mixtures. Carbohydrate Research, 2004, 339, 2037-2043.	1.1	21
140	Synthesis of methyl 4â€²-O-methyl-13C12-Î²-d-cellobioside from 13C6-d-glucose. Part 1: Reaction optimization and synthesis. Carbohydrate Research, 2005, 340, 2428-2435.	1.1	21
141	Studies on DMSO-containing carbanilation mixtures: chemistry, oxidations and cellulose integrity. Cellulose, 2007, 14, 497-511.	2.4	21
142	Effect of pretreatment on arabinoxylan distribution in wheat bran. Carbohydrate Polymers, 2015, 121, 18-26.	5.1	21
143	A Direct Silanization Protocol for Dialdehyde Cellulose. Molecules, 2020, 25, 2458.	1.7	21
144	Comparative hydrolysis analysis of cellulose samples and aspects of its application in conservation science. Cellulose, 2021, 28, 8719-8734.	2.4	21

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145	Crystal and molecular structure of methyl 4-O-methyl-Î²-d-glucopyranosyl-(1â†'4)-Î²-d-glucopyranoside. Carbohydrate Research, 2002, 337, 161-166.	1.1	20
146	Imidazole, a New Tunable Reagent for Producing Nanocellulose, Part I: Xylan-Coated CNCs and CNFs. Polymers, 2017, 9, 473.	2.0	20
147	Potentially Immunogenic Contaminants in Wood-Based and Bacterial Nanocellulose: Assessment of Endotoxin and (1,3)-Î²-<scp>d</scp>-Glucan Levels. Biomacromolecules, 2018, 19, 150-157.	2.6	20
148	Chemistry of 2,5-dihydroxy-[1,4]-benzoquinone, a Key Chromophore in Aged Cellulosics. Mini-Reviews in Organic Chemistry, 2013, 10, 309-315.	0.6	20
149	Synthesis of oxidized methyl 4-O-methyl-Î²-d-glucopyranoside and methyl Î²-d-glucopyranosyl-(1â†'4)-Î²-d-glucopyranoside derivatives as substrates for fluorescence labeling reactions. Carbohydrate Research, 2002, 337, 691-700.	1.1	19
150	Ultralight-Weight Cellulose Aerogels from NBnMO-Stabilized Lyocell Dopes. Research Letters in Materials Science, 2007, 2007, 1-4.	0.2	19
151	Tocopheramine succinate and tocopheryl succinate: Mechanism of mitochondrial inhibition and superoxide radical production. Bioorganic and Medicinal Chemistry, 2014, 22, 684-691.	1.4	19
152	A Vitamin E Derivative as a Novel, Extremely Advantageous Amino-Protecting Group. Journal of Organic Chemistry, 1995, 60, 8120-8121.	1.7	18
153	The effect of water on cellulose solutions in DMAc/LiCl. Macromolecular Symposia, 2002, 190, 151-160.	0.4	18
154	Isolation and Identification of Residual Chromophores in Cellulosic Materials. Macromolecular Symposia, 2005, 223, 239-252.	0.4	18
155	Stabilization of ortho-quinone methides by a bis(sulfonium ylide) derived from 2,5-dihydroxy-[1,4]benzoquinone. Tetrahedron Letters, 2008, 49, 2442-2445.	0.7	18
156	Synthesis of ¹³C-Perlabeled Cellulose with more than 99% Isotopic Enrichment by a Cationic Ring-Opening Polymerization Approach. Biomacromolecules, 2009, 10, 2817-2822.	2.6	18
157	Accurate Analysis of Formose Reaction Products by LCâ€"UV: An Analytical Challenge. Journal of Chromatographic Science, 2014, 52, 169-175.	0.7	18
158	Preparation and analytical characterisation of pure fractions of cellooligosaccharides. Journal of Chromatography A, 2016, 1431, 47-54.	1.8	18
159	Phytochemical and biological activities of Silene viridiflora extractives. Development and validation of a HPTLC method for quantification of 20-hydroxyecdysone. Industrial Crops and Products, 2019, 129, 542-548.	2.5	18
160	High performance cellulose fibers regenerated from 1â€butylâ€3â€methylimidazolium chloride solution: Effects of viscosity and molecular weight. Journal of Applied Polymer Science, 2020, 137, 48681.	1.3	18
161	Synthesis and Testing of a Novel Fluorescence Label for Carbonyls in Carbohydrates and Cellulosics. Synlett, 2001, 2001, 0682-0684.	1.0	17
162	Spin trapping of C- and O-centered radicals with methyl-, ethyl-, pentyl-, and phenyl-substituted EMPO derivatives. Bioorganic and Medicinal Chemistry, 2006, 14, 3368-3376.	1.4	17

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