# Stefan WillfÃ¶r

List of Publications by Year
in descending order



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|---|---|---|---|
| 154 papers | 6,709 citations | 66343 42 h-index | 74163 75 g-index |
| 156 all docs | 156 docs citations | 156 times ranked | 7831 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A review of bioactive plant polysaccharides: Biological activities, functionalization, and biomedical applications. Bioactive Carbohydrates and Dietary Fibre, 2015, 5, 31-61. | 2.7 | 461 |
| 2 | Synthesis of Sugars by Hydrolysis of Hemicelluloses- A Review. Chemical Reviews, 2011, 111, 5638-5666. | 47.7 | 350 |
| 3 | Spectral Characterization of Eucalyptus Wood. Applied Spectroscopy, 2007, 61, 1168-1177. | 2.2 | 249 |
| 4 | Carbohydrate analysis of plant materials with uronic acid-containing polysaccharidesâ€“A comparison between different hydrolysis and subsequent chromatographic analytical techniques. Industrial Crops and Products, 2009, 29, 571-580. | 5.2 | 234 |
| 5 | Spruce-derived mannans â€“ A potential raw material for hydrocolloids and novel advanced natural materials. Carbohydrate Polymers, 2008, 72, 197-210. | 10.2 | 222 |
| 6 | On Low-Concentration Inks Formulated by Nanocellulose Assisted with Gelatin Methacrylate (GelMA) for 3D Printing toward Wound Healing Application. ACS Applied Materials & Interfaces, 2019, 11, 8838-8848. | 8.0 | 189 |
| 7 | Vibrational spectroscopy and X-ray diffraction methods to establish the differences between hardwood and softwood. Carbohydrate Polymers, 2009, 77, 851-857. | 10.2 | 184 |
| 8 | Cellulose nanocrystals prepared via formic acid hydrolysis followed by TEMPO-mediated oxidation. Carbohydrate Polymers, 2015, 133, 605-612. | 10.2 | 184 |
| 9 | Three-Dimensional Printing of Wood-Derived Biopolymers: A Review Focused on Biomedical Applications. ACS Sustainable Chemistry and Engineering, 2018, 6, 5663-5680. | 6.7 | 183 |
| 10 | Ultrafast adsorption of heavy metal ions onto functionalized lignin-based hybrid magnetic nanoparticles. Chemical Engineering Journal, 2019, 372, 82-91. | 12.7 | 176 |
| 11 | Hemicellulose-reinforced nanocellulose hydrogels for wound healing application. Cellulose, 2016, 23, 3129-3143. | 4.9 | 159 |
| 12 | 3D printing of nanocellulose hydrogel scaffolds with tunable mechanical strength towards wound healing application. Journal of Materials Chemistry B, 2018, 6, 7066-7075. | 5.8 | 129 |
| 13 | Development of nanocellulose scaffolds with tunable structures to support 3D cell culture. Carbohydrate Polymers, 2016, 148, 259-271. | 10.2 | 116 |
| 14 | Knots in trees â€“ A new rich source of lignans. Phytochemistry Reviews, 2003, 2, 331-340. | 6.5 | 112 |
| 15 | Antimicrobial and cytotoxic knotwood extracts and related pure compounds and their effects on food-associated microorganisms. International Journal of Food Microbiology, 2007, 115, 235-243. | 4.7 | 111 |
| 16 | Acetylation and characterization of spruce (Picea abies) galactoglucomannans. Carbohydrate Research, 2010, 345, 810-816. | 2.3 | 89 |
| 17 | Oxidation of Polysaccharides by Galactose Oxidase. Journal of Agricultural and Food Chemistry, 2010, 58, 262-271. | 5.2 | 89 |
| 18 | Extraction and chemical characterization of Norway spruce inner and outer bark. Nordic Pulp and Paper Research Journal, 2012, 27, 6-17. | 0.7 | 85 |

| # | Article | IF | Citations |
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| 19 | Isolation and characterisation of water soluble polysaccharides from Norway spruce and Scots pine. Wood Science and Technology, 2004, 38, 173-179. | 3.2 | 83 |
| 20 | Novel biorenewable composite of wood polysaccharide and polylactic acid for three dimensional printing. Carbohydrate Polymers, 2018, 187, 51-58. | 10.2 | 83 |
| 21 | Mannans as stabilizers of oil-in-water beverage emulsions. LWT - Food Science and Technology, 2009, 42, 849-855. | 5.2 | 74 |
| 22 | The antimicrobial effects of wood-associated polyphenols on food pathogens and spoilage organisms. International Journal of Food Microbiology, 2013, 164, 99-107. | 4.7 | 73 |
| 23 | Scots pine (Pinus sylvestris) bark composition and degradation by fungi: Potential substrate for bioremediation. Bioresource Technology, 2010, 101, 2203-2209. | 9.6 | 70 |
| 24 | Cationic hemicellulose-based hydrogels for arsenic and chromium removal from aqueous solutions. Carbohydrate Polymers, 2014, 111, 797-805. | 10.2 | 70 |
| 25 | Norway spruce galactoglucomannans exhibiting immunomodulating and radical-scavenging activities. International Journal of Biological Macromolecules, 2008, 42, 1-5. | 7.5 | 68 |
| 26 | Intensification of hemicellulose hot-water extraction from spruce wood in a batch extractor â€“ Effects of wood particle size. Bioresource Technology, 2013, 143, 212-220. | 9.6 | 65 |
| 27 | Surface Engineered Biomimetic Inks Based on UV Cross-Linkable Wood Biopolymers for 3D Printing. ACS Applied Materials & Interfaces, 2019, 11, 12389-12400. | 8.0 | 65 |
| 28 | Nanofibrillated cellulose originated from birch sawdust after sequential extractions: a promising polymeric material from waste to films. Cellulose, 2014, 21, 2587-2598. | 4.9 | 61 |
| 29 | Glucomannan composite films with cellulose nanowhiskers. Cellulose, 2010, 17, 69-81. | 4.9 | 60 |
| 30 | Rheological properties of water-soluble spruce O-acetyl galactoglucomannans. Carbohydrate Polymers, 2009, 75, 498-504. | 10.2 | 59 |
| 31 | Comparison of different types of pretreatment and enzymatic saccharification of Macrocystis pyrifera for the production of biofuel. Algal Research, 2016, 13, 141-147. | 4.6 | 59 |
| 32 | Kinetics of Acid Hydrolysis of Water-Soluble Spruce O-Acetyl Galactoglucomannans. Journal of Agricultural and Food Chemistry, 2008, 56, 2429-2435. | 5.2 | 56 |
| 33 | Impact of Torrefaction on the Chemical Structure of Birch Wood. Energy & Fuels, 2014, 28, 3863-3872. | 5.1 | 55 |
| 34 | Robust shape-retaining nanocellulose-based aerogels decorated with silver nanoparticles for fast continuous catalytic discoloration of organic dyes. Separation and Purification Technology, 2020, 242, 116523. | 7.9 | 54 |
| 35 | Bioactive phenolic substances in industrially important tree species. Part 2: Knots and stemwood of fir species. Holzforschung, 2004, 58, 650-659. | 1.9 | 51 |
| 36 | Revealing the structure of bamboo lignin obtained by formic acid delignification at different pressure levels. Industrial Crops and Products, 2017, 108, 864-871. | 5.2 | 51 |

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| 37 | Functional and Anionic Cellulose-Interacting Polymers by Selective Chemo-Enzymatic Carboxylation of Galactose-Containing Polysaccharides. Biomacromolecules, 2012, 13, 2418-2428. | 5.4 | 50 |
| 38 | Structural changes of bamboo-derived lignin in an integrated process of autohydrolysis and formic acid inducing rapid delignification. Industrial Crops and Products, 2018, 115, 194-201. | 5.2 | 50 |
| 39 | Spruce Hemicellulose for Chemicals Using Aqueous Extraction: Kinetics, Mass Transfer, and Modeling. Industrial & Engineering Chemistry Research, 2014, 53, 6341-6350. | 3.7 | 47 |
| 40 | Extractives in bark of different conifer species growing in Pakistan. Holzforschung, 2009, 63, 551-558. | 1.9 | 45 |
| 41 | Mild Oxalicâ€Acidâ€Catalyzed Hydrolysis as a Novel Approach to Prepare Cellulose Nanocrystals. ChemNanoMat, 2017, 3, 109-119. | 2.8 | 45 |
| 42 | Selective Hydrolysis of Arabinogalactan into Arabinose and Galactose Over Heterogeneous Catalysts. Catalysis Letters, 2011, 141, 408-412. | 2.6 | 44 |
| 43 | Obtaining Spruce Hemicelluloses of Desired Molar Mass by using Pressurized Hot Water Extraction. ChemSusChem, 2014, 7, 2947-2953. | 6.8 | 42 |
| 44 | Phenolic residues in spruce galactoglucomannans improve stabilization of oil-in-water emulsions. Journal of Colloid and Interface Science, 2018, 512, 536-547. | 9.4 | 39 |
| 45 | Composite films of nanofibrillated cellulose and O-acetyl galactoglucomannan (GGM) coated with succinic esters of GGM showing potential as barrier material in food packaging. Journal of Materials Science, 2015, 50, 3189-3199. | 3.7 | 38 |
| 46 | On importance of impurities, potential leachables and extractables in algal nanocellulose for biomedical use. Carbohydrate Polymers, 2017, 172, 11-19. | 10.2 | 38 |
| 47 | Tailored Approaches in Drug Development and Diagnostics: From Molecular Design to Biological Model Systems. Advanced Healthcare Materials, 2017, 6, 1700258. | 7.6 | 38 |
| 48 | Weakening of paper strength by wood resin. Nordic Pulp and Paper Research Journal, 2000, 15, 46-53. | 0.7 | 38 |
| 49 | Oxidation of lignans and lignin model compounds by laccase in aqueous solvent systems. Journal of Molecular Catalysis B: Enzymatic, 2011, 72, 122-129. | 1.8 | 37 |
| 50 | Kinetic modeling of hemicellulose hydrolysis in the presence of homogeneous and heterogeneous catalysts. AICHE Journal, 2014, 60, 1066-1077. | 3.6 | 37 |
| 51 | Hemicellulose hydrolysis and hydrolytic hydrogenation over proton- and metal modified beta zeolites. Microporous and Mesoporous Materials, 2014, 189, 189-199. | 4.4 | 37 |
| 52 | Characteristics of Hot Water Extracts from the Bark of Cultivated Willow (Salix sp.). ACS Sustainable Chemistry and Engineering, 2018, 6, 5566-5573. | 6.7 | 37 |
| 53 | Environmentally-compatible alkyd paints stabilized by wood hemicelluloses. Industrial Crops and Products, 2019, 133, 212-220. | 5.2 | 37 |
| 54 | BIOREFINERY. Pressurised hot water extraction of acetylated xylan from birch sawdust. Nordic Pulp and Paper Research Journal, 2012, 27, 680-688. | 0.7 | 35 |

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| 55 | Modification of nanofibrillated cellulose using amphiphilic block-structured galactoglucomannans. Carbohydrate Polymers, 2014, 110, 163-172. | 10.2 | 34 |
| 56 | Hemicelluloses from stone pine, holm oak, and Norway spruce with subcritical water extraction â˜' comparative study with characterization and kinetics. Journal of Supercritical Fluids, 2018, 133, 647-657. | 3.2 | 34 |
| 57 | Carboxymethylated spruce galactoglucomannans: preparation, characterisation, dispersion stability, water-in-oil emulsion stability, and sorption on cellulose surface. Nordic Pulp and Paper Research Journal, 2011, 26, 1-12. | 0.7 | 34 |
| 58 | From Biomass to Nanomaterials: A Green Procedure for Preparation of Holistic Bamboo Multifunctional Nanocomposites Based On Formic Acid Rapid Fractionation. ACS Sustainable Chemistry and Engineering, 2019, 7, 6592-6600. | 6.7 | 33 |
| 59 | Extraction of low-molar-mass phenolics and lipophilic compounds from Pinus pinaster wood with compressed CO2. Journal of Supercritical Fluids, 2013, 81, 193-199. | 3.2 | 32 |
| 60 | Effects of pressurized hot water extraction on the nanoscale structure of birch sawdust. Cellulose, 2013, 20, 2335-2347. | 4.9 | 31 |
| 61 | Versatile peroxidase as a valuable tool for generating new biomolecules by homogeneous and heterogeneous cross-linking. Enzyme and Microbial Technology, 2013, 52, 303-311. | 3.2 | 30 |
| 62 | O-acetyl galactoglucomannan esters for barrier coatings. Cellulose, 2014, 21, 4497-4509. | 4.9 | 30 |
| 63 | Targeted allylation and propargylation of galactose-containing polysaccharides in water. Carbohydrate Polymers, 2014, 100, 46-54. | 10.2 | 28 |
| 64 | Bioactive phenolic substances in industrially important tree species. Part 4: Identification of two new 7-hydroxy divanillyl butyrolactol lignans in some spruce, fir, and pine species. Holzforschung, 2005, 59, 413-417. | 1.9 | 27 |
| 65 | Treating birch wood with a switchable 1,8-diazabicyclo-[5.4.0]-undec-7-ene-glycerol carbonate ionic liquid. Holzforschung, 2012, 66, 809-815. | 1.9 | 27 |
| 66 | Digital light processing (DLP) 3D-fabricated antimicrobial hydrogel with a sustainable resin of methacrylated woody polysaccharides and hybrid silver-lignin nanospheres. Green Chemistry, 2022, 24, 2129-2145. | 9.0 | 27 |
| 67 | Headspace-SPME Analysis of the Sapwood and Heartwood ofPicea Abies, Pinus SylvestrisandLarix Decidua. Journal of Essential Oil Research, 2007, 19, 125-133. | 2.7 | 26 |
| 68 | Variation of lignans in Norway spruce (Picea abies [L.] Karst.) knotwood: within-stem variation and the effect of fertilisation at two experimental sites in Finland. Trees - Structure and Function, 2008, 22, 317-328. | 1.9 | 26 |
| 69 | Evaluation of selective extraction methods for recovery of polyphenols from pine. Holzforschung, 2013, 67, 843-851. | 1.9 | 26 |
| 70 | Hydrolytic stability of water-soluble spruce O-acetyl galactoglucomannans. Holzforschung, 2009, 63, . | 1.9 | 25 |
| 71 | Hydrophobication and characterisation of O-acetyl-galactoglucomannan for papermaking and barrier applications. Carbohydrate Research, 2012, 352, 151-158. | 2.3 | 25 |
| 72 | Lignin isolation from spruce wood with low concentration aqueous alkali at high temperature and pressure: influence of hot-water pre-extraction. Green Chemistry, 2015, 17, 5058-5068. | 9.0 | 25 |

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| 73 | Enzymatic hydrolysis of biomimetic bacterial celluloseâ€“hemicellulose composites. Carbohydrate Polymers, 2018, 190, 95-102. | 10.2 | 25 |
| 74 | Valorization of Ligninâ€“Carbohydrate Complexes from Hydrolysates of Norway Spruce: Efficient Separation, Structural Characterization, and Antioxidant Activity. ACS Sustainable Chemistry and Engineering, 2019, 7, 1447-1456. | 6.7 | 25 |
| 75 | Enhancement of Norway spruce bark side-streams: Modification of bioactive and protective properties of stilbenoid-rich extracts by UVA-irradiation. Industrial Crops and Products, 2020, 145, 112150. | 5.2 | 24 |
| 76 | Antithrombotic properties of sulfated wood-derived galactoglucomannans. Holzforschung, 2012, 66, 149-154. | 1.9 | 23 |
| 77 | Recovery of bioactive compounds from Pinus pinaster wood by consecutive extraction stages. Wood Science and Technology, 2014, 48, 311-323. | 3.2 | 23 |
| 78 | Acid hydrolysis of O-acetyl-galactoglucomannan. Catalysis Science and Technology, 2013, 3, 116-122. | 4.1 | 22 |
| 79 | One-Step Fractionation of the Main Components of Bamboo by Formic Acid-based Organosolv Process Under Pressure. Journal of Wood Chemistry and Technology, 2018, 38, 170-182. | 1.7 | 22 |
| 80 | Synthesis of SETâ€“LRPâ€induced galactoglucomannanâ€diblock copolymers. Journal of Polymer Science Part A, 2013, 51, 5100-5110. | 2.3 | 21 |
| 81 | Analysis of extractives from Pinus halepensis and Eucalyptus camaldulensis as predominant trees in Algeria. Holzforschung, 2018, 72, 97-104. | 1.9 | 21 |
| 82 | In vitro inhibition of extractives from knotwood of Scots pine (Pinus sylvestris) and black pine (Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Fibroporia vaillantii. Wood Science and Technology, 2020, 54, 1645-1662. | 3.2 | 21 |
| 83 | Comparative hydrolysis analysis of cellulose samples and aspects of its application in conservation science. Cellulose, 2021, 28, 8719-8734. | 4.9 | 21 |
| 84 | Anionic Polysaccharides as Templates for the Synthesis of Conducting Polyaniline and as Structural Matrix for Conducting Biocomposites. Macromolecular Rapid Communications, 2013, 34, 1056-1061. | 3.9 | 20 |
| 85 | 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. | 5.4 | 20 |
| 86 | Antibacterial effects of wood structural components and extractives from Pinus sylvestris and Picea abies on methicillin-resistant Staphylococcus aureus and Escherichia coli O157:H7. BioResources, 2017, 12, 7601-7614. | 1.0 | 20 |
| 87 | Fractionation of Lignin with Decreased Heterogeneity: Based on a Detailed Characteristics Study of Sequentially Extracted Softwood Kraft Lignin. ACS Sustainable Chemistry and Engineering, 2021, 9, 13862-13873. | 6.7 | 20 |
| 88 | Injectable thiol-ene hydrogel of galactoglucomannan and cellulose nanocrystals in delivery of therapeutic inorganic ions with embedded bioactive glass nanoparticles. Carbohydrate Polymers, 2022, 276, 118780. | 10.2 | 20 |
| 89 | Acid hydrolysis of O-acetyl-galactoglucomannan in a continuous tube reactor: a new approach to sugar monomer production. Holzforschung, 2016, 70, 187-194. | 1.9 | 19 |
| 90 | Chemical characterization ofPinus halepensissapwood and heartwood. Wood Material Science and Engineering, 2019, 14, 157-164. | 2.3 | 19 |

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| 91 | Recovery of Bioactive Compounds from Hazelnuts and Walnuts Shells: Quantitativeâ€“Qualitative Analysis and Chromatographic Purification. Biomolecules, 2020, 10, 1363. | 4.0 | 19 |
| 92 | Green fractionation approaches for isolation of biopolymers and the critical technical challenges. Industrial Crops and Products, 2022, 177, 114451. | 5.2 | 19 |
| 93 | Knotwood as a window to the indirect measurement of the decay resistance of Scots pine heartwood. Holzforschung, 2007, 61, 600-604. | 1.9 | 18 |
| 94 | A novel and efficient synthesis of highly oxidized lignans by a methyltrioxorhenium/hydrogen peroxide catalytic system. Studies on their apoptogenic and antioxidant activity. Bioorganic and Medicinal Chemistry, 2009, 17, 5676-5682. | 3.0 | 18 |
| 95 | Water-Soluble Components of Pinus pinaster Wood. BioResources, 2013, 8, . | 1.0 | 18 |
| 96 | Softwood-based sponge gels. Cellulose, 2016, 23, 3221-3238. | 4.9 | 17 |
| 97 | What is the composition of AIR? Pyrolysis-GCâ€“MS characterization of acid-insoluble residue from fresh litter and organic horizons under boreal forests in southern Finland. Geoderma, 2012, 179-180, 63-72. | 5.1 | 16 |
| 98 | Amphiphilic Spruce Galactoglucomannan Derivatives Based on Naturally-Occurring Fatty Acids. BioResources, 2013, 8, . | 1.0 | 15 |
| 99 | Kinetics of Acid Hydrolysis of Arabinogalactans. International Journal of Chemical Reactor Engineering, 2010, 8, . | 1.1 | 14 |
| 100 | Lipophilic Extractives inPopulus Ã— euramericanaâ€œGuarientoâ€•Stemwood and Bark. Journal of Wood Chemistry and Technology, 2010, 30, 105-117. | 1.7 | 14 |
| 101 | Cationised O-acetyl galactoglucomannans: Synthesis and characterisation. Carbohydrate Polymers, 2014, 99, 755-764. | 10.2 | 14 |
| 102 | Functionalized galactoglucomannanâ€based hydrogels for the removal of metal cations from aqueous solutions. Journal of Applied Polymer Science, 2016, 133, . | 2.6 | 14 |
| 103 | Two-Stage Hot-Water Extraction of Galactoglucomannans from Spruce Wood. Journal of Wood Chemistry and Technology, 2016, 36, 140-156. | 1.7 | 14 |
| 104 | Metal-mediated allylation of enzymatically oxidized methyl Î±-d-galactopyranoside. Carbohydrate Research, 2010, 345, 2610-2615. | 2.3 | 13 |
| 105 | Targeted functionalization of spruce Oâ€acetyl galactoglucomannansâ€”2,2,6,6â€tetramethylpiperidinâ€1â€oxylâ€oxidation and carbodiimideâ€mediated amidation. Journal of Applied Polymer Science, 2013, 130, 3122-3129. | 2.6 | 13 |
| 106 | Comparative evaluation of various lignin determination methods on hemicellulose-rich fractions of spruce and birch obtained by pressurized hot-water extraction (PHWE) and subsequent ultrafiltration (UF). Holzforschung, 2014, 68, 971-979. | 1.9 | 13 |
| 107 | Tailor-made hemicellulose-based hydrogels reinforced with nanofibrillated cellulose. Nordic Pulp and Paper Research Journal, 2015, 30, 373-384. | 0.7 | 13 |
| 108 | Lignin and Other Aromatic Substances Released from Spruce Wood During Pressurized Hot-Water Extraction, Part 1: Extraction, Fractionation and Physico-Chemical Characterization. Journal of Wood Chemistry and Technology, 2015, 35, 387-397. | 1.7 | 13 |

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| 109 | Profiling the substitution pattern of xyloglucan derivatives by integrated enzymatic hydrolysis, hydrophilic-interaction liquid chromatography and mass spectrometry. Journal of Chromatography A, 2016, 1463, 110-120. | 3.7 | 13 |
| 110 | Aqueous Extraction of the Sulfated Polysaccharide Ulvan from the Green Alga Ulva rigidaâ€"Kinetics and Modeling. Bioenergy Research, 2017, 10, 915-928. | 3.9 | 13 |
| 111 | Knockdown of PCBER1, a gene of neolignan biosynthesis, resulted in increased poplar growth. Planta, 2019, 249, 515-525. | 3.2 | 13 |
| 112 | Functional Lignin Nanoparticles with Tunable Size and Surface Properties: Fabrication, Characterization, and Use in Layer-by-Layer Assembly. ACS Applied Materials & Interfaces, 2021, 13, 26308-26317. | 8.0 | 13 |
| 113 | Comparison of Microencapsulation Properties of Spruce Galactoglucomannans and Arabic Gum Using a Model Hydrophobic Core Compound. Journal of Agricultural and Food Chemistry, 2010, 58, 981-989. | 5.2 | 12 |
| 114 | High-temperature pH measuring during hot-water extraction of hemicelluloses from wood. Industrial Crops and Products, 2014, 61, 9-15. | 5.2 | 12 |
| 115 | Statistical modeling of pressurized hot-water batch extraction (PHWE) to produce hemicelluloses with desired properties. Holzforschung, 2016, 70, 633-640. | 1.9 | 12 |
| 116 | Paper chemistry: Calcium oxalate - a source of "hickey" problems - A literature review on oxalate formation, analysis and scale control. Nordic Pulp and Paper Research Journal, 2011, 26, 263-282. | 0.7 | 11 |
| 117 | Treating birch wood with a switchable 1,8-diazabicyclo-[5.4.0]-undec-7-ene-glycerol carbonate ionic liquid. Holzforschung, 2012, 66, 1025-1025. | 1.9 | 11 |
| 118 | Analysis of galactoglucomannans from spruce wood by capillary electrophoresis. Cellulose, 2009, 16, 1089-1097. | 4.9 | 10 |
| 119 | Pressurized hot water flow-through extraction of birch sawdust â€“ Effects of sawdust density and sawdust size. Nordic Pulp and Paper Research Journal, 2014, 29, 547-556. | 0.7 | 10 |
| 120 | Pressurized Hot Water Flow-through Extraction of Birch Sawdust with Acetate pH Buffer. BioResources, 2013, 8, . | 1.0 | 10 |
| 121 | Gold Catalysts for Selective Aerobic Oxidation of the Lignan Hydroxymatairesinol to Oxomatairesinol: Catalyst Deactivation and Regeneration. Catalysis Letters, 2012, 142, 1011-1019. | 2.6 | 9 |
| 122 | Non-cellulosic heteropolysaccharides from sugarcane bagasse â€“ Sequential extraction with pressurized hot water and alkaline peroxide at different temperatures. Bioresource Technology, 2014, 155, 446-450. | 9.6 | 9 |
| 123 | Structural and Thermal Analysis of Softwood Lignins from a Pressurized Hot Water Extraction Biorefinery Process and Modified Derivatives. Molecules, 2019, 24, 335. | 3.8 | 9 |
| 124 | Larch Wood Residues Valorization through Extraction and Utilization of High Value-Added Products. Polymers, 2020, 12, 359. | 4.5 | 9 |
| 125 | Wood Resin in Bigtooth and Quaking Aspen Wood and Knots. Journal of Wood Chemistry and Technology, 2005, 25, 27-39. | 1.7 | 8 |
| 126 | Structural Investigation of Biologically Active Phenolic Compounds Isolated from European Tree Species. Molecules, 2009, 14, 4147-4158. | 3.8 | 8 |

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| 127 | Wood decay caused byHeterobasidion parviporumin juvenile wood specimens from normal- and narrow-crowned Norway spruce. Scandinavian Journal of Forest Research, 2013, 28, 331-339. | 1.4 | 7 |
| 128 | In-line high-temperature pH control during hot-water extraction of wood. Industrial Crops and Products, 2015, 67, 114-120. | 5.2 | 7 |
| 129 | Insights on the distribution of substitutions in spruce galactoglucomannan and its derivatives using integrated chemo-enzymatic deconstruction, chromatography and mass spectrometry. International Journal of Biological Macromolecules, 2018, 112, 616-625. | 7.5 | 7 |
| 130 | The Hydrophobicity of Lignocellulosic Fiber Network Can Be Enhanced with Suberin Fatty Acids. Molecules, 2019, 24, 4391. | 3.8 | 7 |
| 131 | Isolation of pure pinosylvins from industrial knotwood residue with non-chlorinated solvents. Holzforschung, 2019, 73, 475-484. | 1.9 | 7 |
| 132 | Bio-Based Hydrogels With Ion Exchange Properties Applied to Remove Cu(II), Cr(VI), and As(V) Ions From Water. Frontiers in Bioengineering and Biotechnology, 2021, 9, 656472. | 4.1 | 7 |
| 133 | Characterization of waste bio-oil as an alternate source of renewable fuel for marine engines. Biofuels, 2019, , 1-10. | 2.4 | 6 |
| 134 | Nanocellulose bio-based composites for the removal of methylene blue from water: An experimental and theoretical exploration. Journal of Molecular Liquids, 2022, 357, 119089. | 4.9 | 6 |
| 135 | A Novel Antioxidant Phenyl Disaccharide from Populus tremula Knotwood. Molecules, 2007, 12, 205-217. | 3.8 | 5 |
| 136 | Bark Extractives and Suberin Monomers from Arbutus andrachne and Platanus orientalis. BioResources, 2015, 11, . | 1.0 | 5 |
| 137 | Chemical Composition and Content of Lipophilic Seed Extractives of Some Abies and Picea Species. Chemistry and Biodiversity, 2016, 13, 1194-1201. | 2.1 | 5 |
| 138 | Thermally induced degradation of NaCMC in water and effects of NaHCO 3 on acid formation and charge. Food Hydrocolloids, 2018, 74, 32-36. | 10.7 | 5 |
| 139 | The effect of storage conditions on extraction efficiency and identification of extractives in wood-containing paper. Nordic Pulp and Paper Research Journal, 2013, 28, 541-546. | 0.7 | 5 |
| 140 | Facile fractionation of bamboo hydrolysate and characterization of isolated lignin and lignin-carbohydrate complexes. Holzforschung, 2021, 75, 399-408. | 1.9 | 5 |
| 141 | Removal of nafcillin sodium monohydrate from aqueous solution by hydrogels containing nanocellulose: An experimental and theoretical study. Journal of Molecular Liquids, 2022, 347, 117946. | 4.9 | 5 |
| 142 | Chemical characterization of sapwood and heartwood of Fraxinus angustifolia growing in Algeria. Journal of Wood Chemistry and Technology, 2022, 42, 26-36. | 1.7 | 5 |
| 143 | Hemicellulose Hydrolysis in the Presence of Heterogeneous Catalysts. Topics in Catalysis, 2014, 57, 1470-1475. | 2.8 | 4 |
| 144 | Lignin and Other Aromatic Substances Released from Spruce Wood During Pressurized Hot-Water Extraction, Part 2: Structural Characterization. Journal of Wood Chemistry and Technology, 2015, 35, 398-411. | 1.7 | 4 |

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| 145 | Heat Treatment and Chemical Composition of Fatty Acids and Rosin Acids Mixtures: Effects on Their Thermal Properties and Morphology. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 1035-1046. | 1.9 | 3 |
| 146 | Formation of oxalic acid in alkaline peroxide treatment of different wood components. Holzforschung, 2014, 68, 393-400. | 1.9 | 3 |
| 147 | The use of calcium hydroxide as alkali source in peroxide bleaching of kraft pulp. Nordic Pulp and Paper Research Journal, 2017, 32, 444-451. | 0.7 | 3 |
| 148 | Reactions between peracetic acid and lipophilic extractives â€“ methodologies and implications in post bleaching of kraft pulps. Holzforschung, 2016, 70, 747-754. | 1.9 | 2 |
| 149 | Optimization of the extraction of galactoglucomannans from Pinus halepensis. Holzforschung, 2021, 75, 563-573. | 1.9 | 2 |
| 150 | Flow cytometry as a tool to assess inhibitor performance for calcium oxalate scale control. Nordic Pulp and Paper Research Journal, 2014, 29, 663-672. | 0.7 | 2 |
| 151 | Intake of Radionuclides in the Trees of Fukushima Forests 4. Binding of Radioiodine to Xyloglucan. Forests, 2020, 11, 957. | 2.1 | 1 |
| 152 | Sample pretreatment for oxalate analysis and the effect of peroxide bleaching parameters on oxalate formation. Nordic Pulp and Paper Research Journal, 2013, 28, 42-50. | 0.7 | 0 |
| 153 | Chapter 12. Tuning Microscopic and Mechanical Properties of Bio-based Aerogels. RSC Green Chemistry, 2018, , 201-219. | 0.1 | 0 |
| 154 | Valorization of waste bark for biorefineries: chemical characterization of Eucalyptus camaldulensis inner and outer barks. Holzforschung, 2022, 76, 285-293. | 1.9 | 0 |