

Tiina Maija Tenkanen

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166
papers

7,971
citations

51
h-index

82
g-index

168
ext. papers

8,749
ext. citations

5.4
avg, IF

5.85
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 166 | Adsorption of <i>Trichoderma reesei</i> CBH I and EG II and their catalytic domains on steam pretreated softwood and isolated lignin. <i>Journal of Biotechnology</i> , 2004 , 107, 65-72 | 3.7 | 391 |
| 165 | In vitro fermentation of cereal dietary fibre carbohydrates by probiotic and intestinal bacteria. <i>Journal of the Science of Food and Agriculture</i> , 2002 , 82, 781-789 | 4.3 | 243 |
| 164 | Two major xylanases of <i>Trichoderma reesei</i> . <i>Enzyme and Microbial Technology</i> , 1992 , 14, 566-574 | 3.8 | 206 |
| 163 | Spruce-derived mannans – A potential raw material for hydrocolloids and novel advanced natural materials. <i>Carbohydrate Polymers</i> , 2008 , 72, 197-210 | 10.3 | 204 |
| 162 | Characterization of O-acetyl-(4-O-methylglucurono)xylan isolated from birch and beech. <i>Carbohydrate Research</i> , 2002 , 337, 373-7 | 2.9 | 193 |
| 161 | Purification and characterization of two β -mannanases from <i>Trichoderma reesei</i> . <i>Journal of Biotechnology</i> , 1993 , 29, 229-242 | 3.7 | 180 |
| 160 | In situ production and analysis of <i>Weissella confusa</i> dextran in wheat sourdough. <i>Food Microbiology</i> , 2009 , 26, 734-43 | 6 | 172 |
| 159 | Sustainable food-packaging materials based on future biorefinery products: Xylans and mannans. <i>Trends in Food Science and Technology</i> , 2012 , 28, 90-102 | 15.3 | 155 |
| 158 | NMR spectroscopic analysis of exopolysaccharides produced by <i>Leuconostoc citreum</i> and <i>Weissella confusa</i> . <i>Carbohydrate Research</i> , 2008 , 343, 1446-55 | 2.9 | 144 |
| 157 | cDNA cloning of a <i>Trichoderma reesei</i> cellulase and demonstration of endoglucanase activity by expression in yeast. <i>FEBS Journal</i> , 1997 , 249, 584-91 | | 138 |
| 156 | Production, purification and characterization of an esterase liberating phenolic acids from lignocellulosics. <i>Journal of Biotechnology</i> , 1991 , 18, 69-83 | 3.7 | 127 |
| 155 | An alpha-glucuronidase of <i>Schizophyllum commune</i> acting on polymeric xylan. <i>Journal of Biotechnology</i> , 2000 , 78, 149-61 | 3.7 | 125 |
| 154 | Evaluation of wet oxidation pretreatment for enzymatic hydrolysis of softwood. <i>Applied Biochemistry and Biotechnology</i> , 2004 , 117, 1-17 | 3.2 | 122 |
| 153 | Enzymatic properties of the low molecular mass endoglucanases Cel12A (EG III) and Cel45A (EG V) of <i>Trichoderma reesei</i> . <i>Journal of Biotechnology</i> , 2002 , 99, 63-78 | 3.7 | 122 |
| 152 | Interaction and comparison of a class I hydrophobin from <i>Schizophyllum commune</i> and class II hydrophobins from <i>Trichoderma reesei</i> . <i>Biomacromolecules</i> , 2006 , 7, 1295-301 | 6.9 | 121 |
| 151 | Characterisation of 4-deoxy-beta-L-threo-hex-4-enopyranosyluronic acid attached to xylan in pine kraft pulp and pulping liquor by ^1H and ^{13}C NMR spectroscopy. <i>Carbohydrate Research</i> , 1995 , 272, 55-71 | 2.9 | 121 |
| 150 | Isolation and characterization of O-acetylated glucomannans from aspen and birch wood. <i>Carbohydrate Research</i> , 2003 , 338, 525-34 | 2.9 | 111 |

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| 149 | Prospects of polysaccharide aerogels as modern advanced food materials. <i>Trends in Food Science and Technology</i> , 2013 , 34, 124-136 | 15.3 | 110 |
| 148 | In vitro fermentation of arabinoxylan-derived carbohydrates by bifidobacteria and mixed fecal microbiota. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 8598-606 | 5.7 | 109 |
| 147 | Acetylation of woody lignocellulose: significance and regulation. <i>Frontiers in Plant Science</i> , 2013 , 4, 118 | 6.2 | 107 |
| 146 | Material properties of films from enzymatically tailored arabinoxylans. <i>Biomacromolecules</i> , 2008 , 9, 2042-7 | 6.7 | 105 |
| 145 | The role of acetyl xylan esterase in the solubilization of xylan and enzymatic hydrolysis of wheat straw and giant reed. <i>Biotechnology for Biofuels</i> , 2011 , 4, 60 | 7.8 | 104 |
| 144 | Homologous expression and characterization of Cel61A (EG IV) of <i>Trichoderma reesei</i> . <i>FEBS Journal</i> , 2001 , 268, 6498-507 | | 102 |
| 143 | Effect of polysaccharide structure on mechanical and thermal properties of galactomannan-based films. <i>Biomacromolecules</i> , 2007 , 8, 3198-205 | 6.9 | 100 |
| 142 | Films from oat spelt arabinoxylan plasticized with glycerol and sorbitol. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 457-466 | 2.9 | 94 |
| 141 | Interactions of structurally different hemicelluloses with nanofibrillar cellulose. <i>Carbohydrate Polymers</i> , 2011 , 86, 1281-1290 | 10.3 | 94 |
| 140 | Action of <i>Trichoderma reesei</i> mannanase on galactoglucomannan in pine kraft pulp. <i>Journal of Biotechnology</i> , 1997 , 57, 191-204 | 3.7 | 94 |
| 139 | Dynamic interaction of <i>Trichoderma reesei</i> cellobiohydrolases Cel6A and Cel7A and cellulose at equilibrium and during hydrolysis. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 5229-33 | 4.8 | 94 |
| 138 | Oxidation of polysaccharides by galactose oxidase. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 262-71 | 5.7 | 77 |
| 137 | Wheat bran arabinoxylans: Chemical structure and film properties of three isolated fractions. <i>Carbohydrate Polymers</i> , 2011 , 86, 852-859 | 10.3 | 76 |
| 136 | Acetyl xylan esterase from <i>Trichoderma reesei</i> contains an active-site serine residue and a cellulose-binding domain. <i>FEBS Journal</i> , 1996 , 237, 553-60 | | 76 |
| 135 | Direct analysis of lignin and lignin-like components from softwood kraft pulp by Py-GC/MS techniques. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005 , 74, 123-128 | 6 | 75 |
| 134 | Spruce galactoglucomannan films show promising barrier properties. <i>Carbohydrate Polymers</i> , 2010 , 79, 1107-1112 | 10.3 | 74 |
| 133 | Three alpha-galactosidase genes of <i>Trichoderma reesei</i> cloned by expression in yeast. <i>FEBS Journal</i> , 1996 , 240, 104-11 | | 72 |
| 132 | Thermostable recombinant xylanases from <i>Nonomuraea flexuosa</i> and <i>Thermoascus aurantiacus</i> show distinct properties in the hydrolysis of xylans and pretreated wheat straw. <i>Biotechnology for Biofuels</i> , 2011 , 4, 12 | 7.8 | 71 |

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|-----|--|------|----|
| 131 | Comprehensive multidetector HPSEC study on solution properties of cereal arabinoxylans in aqueous and DMSO solutions. <i>Biomacromolecules</i> , 2009 , 10, 1962-9 | 6.9 | 68 |
| 130 | Carboxymethylation of alkali extracted xylan for preparation of bio-based packaging films. <i>Carbohydrate Polymers</i> , 2014 , 100, 89-96 | 10.3 | 64 |
| 129 | Application of xylanases in the pulp and paper industry. <i>Bioresource Technology</i> , 1994 , 50, 65-72 | 11 | 63 |
| 128 | Reduced Wall Acetylation proteins play vital and distinct roles in cell wall O-acetylation in Arabidopsis. <i>Plant Physiology</i> , 2013 , 163, 1107-17 | 6.6 | 60 |
| 127 | Bacterial nanocellulose-reinforced arabinoxylan films. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 1030-1039 | 2.9 | 60 |
| 126 | Mannans as stabilizers of oil-in-water beverage emulsions. <i>LWT - Food Science and Technology</i> , 2009 , 42, 849-855 | 5.4 | 60 |
| 125 | Hydrolysis of amorphous and crystalline cellulose by heterologously produced cellulases of Melanocarpus albomyces. <i>Journal of Biotechnology</i> , 2008 , 136, 140-7 | 3.7 | 60 |
| 124 | Three-dimensional structure of the catalytic core of acetylxylan esterase from Trichoderma reesei: insights into the deacetylation mechanism. <i>Journal of Structural Biology</i> , 2000 , 132, 180-90 | 3.4 | 60 |
| 123 | Xylanase XYN IV from Trichoderma reesei showing exo- and endo-xylanase activity. <i>FEBS Journal</i> , 2013 , 280, 285-301 | 5.7 | 58 |
| 122 | Oxidation of methyl alpha-D-galactopyranoside by galactose oxidase: products formed and optimization of reaction conditions for production of aldehyde. <i>Carbohydrate Research</i> , 2009 , 344, 14-20 ^{2.9} | 2.9 | 58 |
| 121 | Antioxidant potential of hydroxycinnamic acid glycoside esters. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 4797-805 | 5.7 | 57 |
| 120 | The impact of fermentation with exopolysaccharide producing lactic acid bacteria on rheological, chemical and sensory properties of pureed carrots (<i>Daucus carota</i> L.). <i>International Journal of Food Microbiology</i> , 2015 , 207, 109-18 | 5.8 | 55 |
| 119 | Identification of the acidic degradation products of hexenuronic acid and characterisation of hexenuronic acid-substituted xylooligosaccharides by NMR spectroscopy. <i>Carbohydrate Research</i> , 1996 , 280, 197-208 | 2.9 | 55 |
| 118 | Characterization of exopolysaccharide and ropy capsular polysaccharide formation by Weissella. <i>Food Microbiology</i> , 2015 , 46, 418-427 | 6 | 54 |
| 117 | Glucomanan composite films with cellulose nanowhiskers. <i>Cellulose</i> , 2010 , 17, 69-81 | 5.5 | 54 |
| 116 | Composite films from spruce galactoglucomannans with microfibrillated spruce wood cellulose. <i>Cellulose</i> , 2011 , 18, 713-726 | 5.5 | 53 |
| 115 | Expression of fungal acetyl xylan esterase in Arabidopsis thaliana improves saccharification of stem lignocellulose. <i>Plant Biotechnology Journal</i> , 2016 , 14, 387-97 | 11.6 | 51 |
| 114 | Oxidation with galactose oxidase: Multifunctional enzymatic catalysis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 120, 47-59 | | 47 |

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|-----|--|------|----|
| 113 | Supercritical water treatment for cello-oligosaccharide production from microcrystalline cellulose. <i>Carbohydrate Research</i> , 2015 , 401, 16-23 | 2.9 | 47 |
| 112 | Action of xylan deacetylating enzymes on monoacetyl derivatives of 4-nitrophenyl glycosides of β -D-xylopyranose and β -L-arabinofuranose. <i>Journal of Biotechnology</i> , 2011 , 151, 137-42 | 3.7 | 47 |
| 111 | Sorption of dissolved galactoglucomannans and galactomannans to bleached kraft pulp. <i>Cellulose</i> , 2002 , 9, 251-261 | 5.5 | 47 |
| 110 | Binding of hemicellulases on isolated polysaccharide substrates. <i>Enzyme and Microbial Technology</i> , 1995 , 17, 499-505 | 3.8 | 47 |
| 109 | Arabinoxylan structure affects the reinforcement of films by microfibrillated cellulose. <i>Cellulose</i> , 2012 , 19, 467-480 | 5.5 | 45 |
| 108 | Step-wise enzymatic preparation and structural characterization of singly and doubly substituted arabinoxylo-oligosaccharides with non-reducing end terminal branches. <i>Carbohydrate Research</i> , 2008 , 343, 3049-57 | 2.9 | 45 |
| 107 | Hydrolytic properties of a beta-mannosidase purified from <i>Aspergillus niger</i> . <i>Journal of Biotechnology</i> , 1999 , 75, 281-9 | 3.7 | 45 |
| 106 | Structural analysis of enzyme-resistant isomaltooligosaccharides reveals the elongation of β -(1 \rightarrow 3)-linked branches in <i>Weissella confusa</i> dextran. <i>Biomacromolecules</i> , 2011 , 12, 409-18 | 6.9 | 44 |
| 105 | Functional and anionic cellulose-interacting polymers by selective chemo-enzymatic carboxylation of galactose-containing polysaccharides. <i>Biomacromolecules</i> , 2012 , 13, 2418-28 | 6.9 | 42 |
| 104 | In situ synthesis of exopolysaccharides by <i>Leuconostoc</i> spp. and <i>Weissella</i> spp. and their rheological impacts in fava bean flour. <i>International Journal of Food Microbiology</i> , 2017 , 248, 63-71 | 5.8 | 41 |
| 103 | Autohydrolysis of birch wood. <i>Holzforschung</i> , 2011 , 65, | 2 | 41 |
| 102 | Products of hydrolysis of beechwood acetyl-4-O-methylglucuronoxylan by a xylanase and an acetyl xylan esterase. <i>Enzyme and Microbial Technology</i> , 1991 , 13, 483-486 | 3.8 | 41 |
| 101 | Extraction and chemical characterization of rye arabinoxylan and the effect of β -glucan on the mechanical and barrier properties of cast arabinoxylan films. <i>Food Hydrocolloids</i> , 2013 , 30, 206-216 | 10.6 | 40 |
| 100 | Substrate specificities of <i>Penicillium simplicissimum</i> alpha-galactosidases. <i>Enzyme and Microbial Technology</i> , 1998 , 22, 192-8 | 3.8 | 40 |
| 99 | An acetylglucuronan esterase of <i>Aspergillus oryzae</i> ; purification, characterization and role in the hydrolysis of O-acetyl-galactoglucomannan. <i>Journal of Biotechnology</i> , 1995 , 42, 197-206 | 3.7 | 40 |
| 98 | Presence of 1 \rightarrow 3-linked 2-O-beta-d-xylopyranosyl-alpha-l-arabinofuranosyl side chains in cereal arabinoxylans. <i>Carbohydrate Research</i> , 2009 , 344, 2480-8 | 2.9 | 39 |
| 97 | Action of <i>Trichoderma reesei</i> and <i>Aspergillus oryzae</i> esterases in the deacetylation of hemicelluloses. <i>Biotechnology and Applied Biochemistry</i> , 1998 , 27, 19-24 | 2.8 | 38 |
| 96 | Regioselective deacetylation of cellulose acetates by acetyl xylan esterases of different CE-families. <i>Journal of Biotechnology</i> , 2003 , 105, 95-104 | 3.7 | 37 |

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|----|--|------|----|
| 95 | O-acetylation of glucuronoxylan in <i>Arabidopsis thaliana</i> wild type and its change in xylan biosynthesis mutants. <i>Glycobiology</i> , 2014 , 24, 494-506 | 5.8 | 36 |
| 94 | Synthesis and antioxidant activity of hydroxycinnamic acid xylan esters. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 6937-43 | 5.7 | 35 |
| 93 | Composite films of nanofibrillated cellulose and O-acetyl galactoglucomannan (GGM) coated with succinic esters of GGM showing potential as barrier material in food packaging. <i>Journal of Materials Science</i> , 2015 , 50, 3189-3199 | 4.3 | 34 |
| 92 | Xylo- and cello-oligosaccharide oxidation by gluco-oligosaccharide oxidase from <i>Sarocladium strictum</i> and variants with reduced substrate inhibition. <i>Biotechnology for Biofuels</i> , 2013 , 6, 148 | 7.8 | 33 |
| 91 | The β -glucuronidase Agu1 from <i>Schizophyllum commune</i> is a member of a novel glycoside hydrolase family (GH115). <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1323-32 | 5.7 | 33 |
| 90 | Rye bran as fermentation matrix boosts in situ dextran production by <i>Weissella confusa</i> compared to wheat bran. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 3499-510 | 5.7 | 33 |
| 89 | Enzymatic oxidation as a potential new route to produce polysaccharide aerogels. <i>RSC Advances</i> , 2014 , 4, 11884 | 3.7 | 32 |
| 88 | Butylamino-functionalized cellulose nanocrystal films: barrier properties and mechanical strength. <i>RSC Advances</i> , 2015 , 5, 15140-15146 | 3.7 | 32 |
| 87 | Effect of side groups on the action of beta-xylosidase from <i>Trichoderma reesei</i> against substituted xylo-oligosaccharides. <i>FEBS Letters</i> , 1996 , 399, 303-6 | 3.8 | 32 |
| 86 | Enzymatic deacetylation of galactoglucomannans. <i>Applied Microbiology and Biotechnology</i> , 1993 , 39, 159 | 5.7 | 32 |
| 85 | deacetylation of xylan affects lignin properties and improves saccharification of aspen wood. <i>Biotechnology for Biofuels</i> , 2017 , 10, 98 | 7.8 | 31 |
| 84 | Films from Glyoxal-Crosslinked Spruce Galactoglucomannans Plasticized with Sorbitol. <i>International Journal of Polymer Science</i> , 2012 , 2012, 1-8 | 2.4 | 31 |
| 83 | New enzyme-based method for analysis of water-soluble wheat arabinoxylans. <i>Carbohydrate Research</i> , 2008 , 343, 521-9 | 2.9 | 31 |
| 82 | Downregulation of RWA genes in hybrid aspen affects xylan acetylation and wood saccharification. <i>New Phytologist</i> , 2017 , 214, 1491-1505 | 9.8 | 30 |
| 81 | Tissue-specific study across the stem reveals the chemistry and transcriptome dynamics of birch bark. <i>New Phytologist</i> , 2019 , 222, 1816-1831 | 9.8 | 30 |
| 80 | Crosslinking with ammonium zirconium carbonate improves the formation and properties of spruce galactoglucomannan films. <i>Journal of Materials Science</i> , 2013 , 48, 4205-4213 | 4.3 | 30 |
| 79 | Specific enzymatic tailoring of wheat arabinoxylan reveals the role of substitution on xylan film properties. <i>Carbohydrate Polymers</i> , 2013 , 92, 733-40 | 10.3 | 30 |
| 78 | A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. <i>Biotechnology for Biofuels</i> , 2018 , 11, 74 | 7.8 | 29 |

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|----|--|------|----|
| 77 | Challenges in analysis of high-molar mass dextrans: comparison of HPSEC, AsFIFFF and DOSY NMR spectroscopy. <i>Carbohydrate Polymers</i> , 2014 , 99, 199-207 | 10.3 | 28 |
| 76 | Cloning and characterization of a <i>Weissella confusa</i> dextransucrase and its application in high fibre baking. <i>PLoS ONE</i> , 2015 , 10, e0116418 | 3.7 | 28 |
| 75 | Exopolysaccharides Production during the Fermentation of Soybean and Fava Bean Flours by <i>Leuconostoc mesenteroides</i> DSM 20343. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 2805-2815 | 5.7 | 27 |
| 74 | Combination of internal and external plasticization of hydroxypropylated birch xylan tailors the properties of sustainable barrier films. <i>European Polymer Journal</i> , 2015 , 66, 307-318 | 5.2 | 27 |
| 73 | Adsorption and activity of <i>Trichoderma reesei</i> cellobiohydrolase I, endoglucanase II, and the corresponding core proteins on steam pretreated willow. <i>Applied Biochemistry and Biotechnology</i> , 1999 , 81, 81-90 | 3.2 | 27 |
| 72 | Structural comparison of arabinoxylans from two barley side-stream fractions. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 5069-77 | 5.7 | 26 |
| 71 | Lactose- and cellobiose-derived branched trisaccharides and a sucrose-containing trisaccharide produced by acceptor reactions of <i>Weissella confusa</i> dextransucrase. <i>Food Chemistry</i> , 2016 , 190, 226-236 | 8.5 | 25 |
| 70 | Substituent-specific antibody against glucuronoxylan reveals close association of glucuronic acid and acetyl substituents and distinct labeling patterns in tree species. <i>Planta</i> , 2012 , 236, 739-51 | 4.7 | 25 |
| 69 | Feasibility of using atmospheric pressure matrix-assisted laser desorption/ionization with ion trap mass spectrometry in the analysis of acetylated xylooligosaccharides derived from hardwoods and <i>Arabidopsis thaliana</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2995-3009 | 4.4 | 25 |
| 68 | Purification and characterisation of a novel steryl esterase from <i>Melanocarpus albomyces</i> . <i>Enzyme and Microbial Technology</i> , 2006 , 39, 265-273 | 3.8 | 25 |
| 67 | Endoxylanase II from <i>Trichoderma reesei</i> has several isoforms with different isoelectric points. <i>Biotechnology and Applied Biochemistry</i> , 2000 , 31, 61-8 | 2.8 | 25 |
| 66 | Mesoporous guar galactomannan based biocomposite aerogels through enzymatic crosslinking. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 94, 93-103 | 8.4 | 24 |
| 65 | Impact of in situ produced exopolysaccharides on rheology and texture of fava bean protein concentrate. <i>Food Research International</i> , 2019 , 115, 191-199 | 7 | 24 |
| 64 | Targeted allylation and propargylation of galactose-containing polysaccharides in water. <i>Carbohydrate Polymers</i> , 2014 , 100, 46-54 | 10.3 | 24 |
| 63 | Molecular characterization and solution properties of enzymatically tailored arabinoxylans. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 963-9 | 7.9 | 24 |
| 62 | Purification and characterization of <i>Aspergillus</i> β -galactanases acting on β 1,4- and β 1,3/6-linked arabinogalactans. <i>Carbohydrate Polymers</i> , 2003 , 53, 155-168 | 10.3 | 24 |
| 61 | Environmentally-compatible alkyd paints stabilized by wood hemicelluloses. <i>Industrial Crops and Products</i> , 2019 , 133, 212-220 | 5.9 | 23 |
| 60 | Quantitation of 4-O-methylglucuronic acid from plant cell walls. <i>Carbohydrate Polymers</i> , 2013 , 91, 626-30 | 10.3 | 23 |

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| 59 | Glycosylation of acetylxylan esterase from <i>Trichoderma reesei</i> . <i>Glycobiology</i> , 2002 , 12, 291-8 | 5.8 | 22 |
| 58 | Thermally stable hydrogels from enzymatically oxidized polysaccharides. <i>Food Hydrocolloids</i> , 2012 , 26, 212-220 | 10.6 | 21 |
| 57 | Structural analysis of linear mixed-linkage glucooligosaccharides by tandem mass spectrometry. <i>Food Chemistry</i> , 2013 , 136, 1496-507 | 8.5 | 21 |
| 56 | Action of three GH51 and one GH54 β -arabinofuranosidases on internally and terminally located arabinofuranosyl branches. <i>Journal of Biotechnology</i> , 2016 , 229, 22-30 | 3.7 | 21 |
| 55 | Laccase/TEMPO oxidation in the production of mechanically strong arabinoxylan and glucomannan aerogels. <i>Carbohydrate Polymers</i> , 2017 , 175, 377-386 | 10.3 | 20 |
| 54 | A Novel <i>Colletotrichum graminicola</i> Raffinose Oxidase in the AA5 Family. <i>Applied and Environmental Microbiology</i> , 2017 , 83, | 4.8 | 20 |
| 53 | Isolation of cellotriosyl blocks from barley β -glucan with endo-1,4- β -glucanase from <i>Trichoderma reesei</i> . <i>Carbohydrate Polymers</i> , 2006 , 64, 233-238 | 10.3 | 20 |
| 52 | Interactions between fava bean protein and dextrans produced by <i>Leuconostoc pseudomesenteroides</i> DSM 20193 and <i>Weissella cibaria</i> Sj 1b. <i>Carbohydrate Polymers</i> , 2018 , 190, 315-323 | 10.3 | 19 |
| 51 | Mutation of a pH-modulating residue in a GH51 β -l-arabinofuranosidase leads to a severe reduction of the secondary hydrolysis of transfuranosylation products. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 626-36 | 4 | 18 |
| 50 | Structure-function relationships in hydrophobins: probing the role of charged side chains. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 5533-8 | 4.8 | 18 |
| 49 | Stereochemistry of the hydrolysis of glycosidic linkage by endo-beta-1,4-xylanases of <i>Trichoderma reesei</i> . <i>FEBS Letters</i> , 1994 , 356, 137-40 | 3.8 | 18 |
| 48 | Substrate and positional specificity of feruloyl esterases for monoferuloylated and monoacetylated 4-nitrophenyl glycosides. <i>Journal of Biotechnology</i> , 2007 , 127, 235-43 | 3.7 | 17 |
| 47 | Identification and structural analysis of cereal arabinoxylan-derived oligosaccharides by negative ionization HILIC-MS/MS. <i>Food Chemistry</i> , 2019 , 275, 176-185 | 8.5 | 17 |
| 46 | Strengthening effect of nanofibrillated cellulose is dependent on enzymatically oxidized polysaccharide gel matrices. <i>European Polymer Journal</i> , 2015 , 71, 171-184 | 5.2 | 16 |
| 45 | Optimization of Isomaltooligosaccharide Size Distribution by Acceptor Reaction of <i>Weissella confusa</i> Dextranase and Characterization of Novel β -(1 \rightarrow 2)-Branched Isomaltooligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 3276-86 | 5.7 | 16 |
| 44 | Behavior of polysaccharide assemblies in field-flow fractionation and size-exclusion chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 1467-72 | 4.4 | 15 |
| 43 | The effect of galactose side units and mannan chain length on the macromolecular characteristics of galactomannans. <i>Carbohydrate Polymers</i> , 2011 , 86, 1230-1235 | 10.3 | 15 |
| 42 | Comparison of Catalytic Properties of Acetyl Xylan Esterases from Three Carbohydrate Esterase Families. <i>ACS Symposium Series</i> , 2003 , 211-229 | 0.4 | 15 |

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| 41 | 4-O-methyl-beta-L-idopyranosyluronic acid linked to xylan from kraft pulp: isolation procedure and characterisation by NMR spectroscopy. <i>Carbohydrate Research</i> , 1996 , 293, 1-13 | 2.9 | 15 |
| 40 | Substrate specificities of <i>Aspergillus terreus</i> β -arabinofuranosidases. <i>Carbohydrate Polymers</i> , 1998 , 37, 131-141 | 10.3 | 14 |
| 39 | Possibility of Increasing Mechanical Pulp Yield by Enzymatic Treatment. <i>Holzforschung</i> , 1994 , 48, 436-440 | | 14 |
| 38 | Non-Alcoholic Beverages from Fermented Cereals with Increased Oligosaccharide Content. <i>Food Technology and Biotechnology</i> , 2016 , 54, 36-44 | 2.1 | 14 |
| 37 | A ^1H NMR study of the specificity of β -l-arabinofuranosidases on natural and unnatural substrates. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 3106-14 | 4 | 13 |
| 36 | Wood cell wall mimicking for composite films of spruce nanofibrillated cellulose with spruce galactoglucomannan and arabinoglucuronoxylan. <i>Journal of Materials Science</i> , 2014 , 49, 5043-5055 | 4.3 | 13 |
| 35 | Metal-mediated allylation of enzymatically oxidized methyl β -D-galactopyranoside. <i>Carbohydrate Research</i> , 2010 , 345, 2610-5 | 2.9 | 13 |
| 34 | Crystallization and preliminary X-ray analysis of a novel <i>Trichoderma reesei</i> xylanase IV belonging to glycoside hydrolase family 5. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004 , 60, 542-4 | | 13 |
| 33 | Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 2398-2405 | 4 | 12 |
| 32 | Biochemical and Structural Characterization of a Five-domain GH115 β -Glucuronidase from the Marine Bacterium <i>Saccharophagus degradans</i> 2-40T. <i>Journal of Biological Chemistry</i> , 2016 , 291, 14120-14133 | 5.4 | 12 |
| 31 | Comparison of microencapsulation properties of spruce galactoglucomannans and arabic gum using a model hydrophobic core compound. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 981-9 | 5.7 | 11 |
| 30 | Active fungal GH115 β -glucuronidase produced in <i>Arabidopsis thaliana</i> affects only the UX1-reactive glucuronate decorations on native glucuronoxylans. <i>BMC Biotechnology</i> , 2015 , 15, 56 | 3.5 | 10 |
| 29 | Effects of process parameters on the properties of barley containing snacks enriched with brewer's spent grain. <i>Journal of Food Science and Technology</i> , 2016 , 53, 775-83 | 3.3 | 10 |
| 28 | Activity of an <i>Aspergillus terreus</i> alpha-arabinofuranosidase on phenolic-substituted oligosaccharides. <i>Journal of Biotechnology</i> , 1999 , 67, 41-8 | 3.7 | 10 |
| 27 | Effects of process variables and addition of polydextrose and whey protein isolate on the properties of barley extrudates. <i>International Journal of Food Science and Technology</i> , 2012 , 47, 1165-1175 | 2.8 | 9 |
| 26 | Active food packaging through controlled production and release of hexanal. <i>Food Chemistry: X</i> , 2020 , 5, 100074 | 4.7 | 9 |
| 25 | Enzymatic analysis of levan produced by lactic acid bacteria in fermented doughs. <i>Carbohydrate Polymers</i> , 2019 , 208, 285-293 | 10.3 | 9 |
| 24 | Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. <i>Frontiers in Plant Science</i> , 2020 , 11, 380 | 6.2 | 8 |

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| 23 | Influence of a family 29 carbohydrate binding module on the activity of galactose oxidase from <i>Fusarium graminearum</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 354-62 | 4 | 8 |
| 22 | Combined Production of Polymeric Birch Xylan and Paper Pulp by Alkaline Pre-extraction Followed by Alkaline Cooking. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 8302-8310 | 3.9 | 8 |
| 21 | X-ray characterization of starch-based solid foams. <i>Journal of Materials Science</i> , 2011 , 46, 3470-3479 | 4.3 | 7 |
| 20 | Purification, crystallization and preliminary X-ray diffraction analysis of the <i>Trichoderma reesei</i> hydrophobin HFBI. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004 , 60, 1903-5 | | 7 |
| 19 | A family AA5_2 carbohydrate oxidase from <i>Penicillium rubens</i> displays functional overlap across the AA5 family. <i>PLoS ONE</i> , 2019 , 14, e0216546 | 3.7 | 6 |
| 18 | Crystallization and shear modulus of a forming biopolymer film determined by in situ x-ray diffraction and ultrasound reflection methods. <i>Journal of Applied Physics</i> , 2008 , 104, 023513 | 2.5 | 6 |
| 17 | Enzymatic Tailoring of Hemicelluloses. <i>ACS Symposium Series</i> , 2003 , 292-311 | 0.4 | 6 |
| 16 | Colloidal features of softwood galactoglucomannans-rich extract. <i>Carbohydrate Polymers</i> , 2020 , 241, 116368 | 10.3 | 5 |
| 15 | Structure modeling and functional analysis of recombinant dextransucrase from <i>Weissella confusa</i> Cab3 expressed in <i>Lactococcus lactis</i> . <i>Preparative Biochemistry and Biotechnology</i> , 2016 , 46, 822-832 | 2.4 | 5 |
| 14 | Size-exclusion chromatography of xylan derivatives-the critical evaluation of macromolecular data. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 4811-4817 | 4.4 | 4 |
| 13 | Long-Term Physical Stability of Plasticized Hemicellulose Films. <i>BioResources</i> , 2013 , 9, | 1.3 | 4 |
| 12 | Crystallization and preliminary X-ray diffraction studies of the catalytic core of acetyl xylan esterase from <i>Trichoderma reesei</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998 , 54, 430-2 | | 4 |
| 11 | Quantitative Comparison of Pyranose Dehydrogenase Action on Diverse Xylooligosaccharides. <i>Frontiers in Chemistry</i> , 2020 , 8, 11 | 5 | 4 |
| 10 | Structural characterization of the family GH115 β -glucuronidase from <i>Amphibacillus xylanus</i> yields insight into its coordinated action with β -arabinofuranosidases. <i>New Biotechnology</i> , 2021 , 62, 49-56 | 6.4 | 4 |
| 9 | Glucuronic acid in <i>Arabidopsis thaliana</i> xylans carries a novel pentose substituent. <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 807-12 | 7.9 | 3 |
| 8 | Constructing arabinofuranosidases for dual arabinoxylan debranching activity. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 41-49 | 4.9 | 3 |
| 7 | Synchrotron Microtomography Reveals the Fine Three-Dimensional Porosity of Composite Polysaccharide Aerogels. <i>Materials</i> , 2017 , 10, | 3.5 | 3 |
| 6 | Field-Flow Fractionation of Cationic Cellulose Derivatives. <i>Chromatographia</i> , 2019 , 82, 1827-1832 | 2.1 | 2 |

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| 5 | Comparison of two wheat bran extracts in the sheet extrusion process. <i>Industrial Crops and Products</i> , 2016 , 91, 1-5 | 5.9 | 2 |
| 4 | Valorization of Urban Street Tree Pruning Residues in Biorefineries by Steam Refining: Conversion Into Fibers, Emulsifiers, and Biogas. <i>Frontiers in Chemistry</i> , 2021 , 9, 779609 | 5 | 1 |
| 3 | Separation of isomeric cereal-derived arabinoxylan-oligosaccharides by collision induced dissociation-travelling wave ion mobility spectrometry-tandem mass spectrometry (CID-TWIMS-MS/MS). <i>Food Chemistry</i> , 2022 , 366, 130544 | 8.5 | 1 |
| 2 | Enzymatic oxidation of plant polysaccharides adsorbed to cellulose surfaces. <i>New Biotechnology</i> , 2014 , 31, S7-S8 | 6.4 | |
| 1 | Specific Antibodies for Immunochemical Detection of Wood-Derived Hemicelluloses. <i>ACS Symposium Series</i> , 2003 , 140-156 | 0.4 | |