

Ewa J Mellerowicz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

4,500
citations

33
h-index

67
g-index

76
ext. papers

5,399
ext. citations

6.8
avg, IF

5.13
L-index

#	Paper	IF	Citations
70	Elongation of wood fibers combines features of diffuse and tip growth. <i>New Phytologist</i> , 2021 , 232, 673-681	9.8	2
69	Sucrose synthase determines carbon allocation in developing wood and alters carbon flow at the whole tree level in aspen. <i>New Phytologist</i> , 2021 , 229, 186-198	9.8	5
68	Saccharification Potential of Transgenic Greenhouse- and Field-Grown Aspen Engineered for Reduced Xylan Acetylation. <i>Frontiers in Plant Science</i> , 2021 , 12, 704960	6.2	1
67	Genome-Wide Identification of Malectin/Malectin-Like Domain-Containing Proteins and Expression Analyses Reveal Novel Candidates for Signaling and Regulation of Wood Development. <i>Frontiers in Plant Science</i> , 2020 , 11, 588846	6.2	3
66	Cell Wall Acetylation in Hybrid Aspen Affects Field Performance, Foliar Phenolic Composition and Resistance to Biological Stress Factors in a Construct-Dependent Fashion. <i>Frontiers in Plant Science</i> , 2020 , 11, 651	6.2	5
65	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
64	Arabidopsis and Contribute to Wood Cell Expansion and Secondary Wall Formation. <i>Plant Physiology</i> , 2020 , 182, 1946-1965	6.6	20
63	Expression of Cell Wall-Modifying Enzymes in Aspen for Improved Lignocellulose Processing. <i>Methods in Molecular Biology</i> , 2020 , 2149, 145-164	1.4	
62	Genetic control of tracheid properties in Norway spruce wood. <i>Scientific Reports</i> , 2020 , 10, 18089	4.9	4
61	Poplar carbohydrate-active enzymes: whole-genome annotation and functional analyses based on RNA expression data. <i>Plant Journal</i> , 2019 , 99, 589-609	6.9	15
60	QTL Mapping of Wood FT-IR Chemotypes Shows Promise for Improving Biofuel Potential in Short Rotation Coppice Willow (<i>Salix</i> spp.). <i>Bioenergy Research</i> , 2018 , 11, 351-363	3.1	10
59	Downregulating aspen xylan biosynthetic GT43 genes in developing wood stimulates growth via reprogramming of the transcriptome. <i>New Phytologist</i> , 2018 , 219, 230-245	9.8	20
58	PtxtPME1 and homogalacturonans influence xylem hydraulic properties in poplar. <i>Physiologia Plantarum</i> , 2018 , 163, 502-515	4.6	3
57	Ethylene signaling induces gelatinous layers with typical features of tension wood in hybrid aspen. <i>New Phytologist</i> , 2018 , 218, 999-1014	9.8	25
56	Transcriptional induction of cell wall remodelling genes is coupled to microtubule-driven growth isotropy at the shoot apex in. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	29
55	Engineering Non-cellulosic Polysaccharides of Wood for the Biorefinery. <i>Frontiers in Plant Science</i> , 2018 , 9, 1537	6.2	22
54	Downregulation of RWA genes in hybrid aspen affects xylan acetylation and wood saccharification. <i>New Phytologist</i> , 2017 , 214, 1491-1505	9.8	30

53	Protein expression in tension wood formation monitored at high tissue resolution in Populus. <i>Journal of Experimental Botany</i> , 2017 , 68, 3405-3417	7	16
52	Defense Responses in Aspen with Altered Pectin Methyltransferase Activity Reveal the Hormonal Inducers of Tyloses. <i>Plant Physiology</i> , 2017 , 173, 1409-1419	6.6	13
51	A collection of genetically engineered Populus trees reveals wood biomass traits that predict glucose yield from enzymatic hydrolysis. <i>Scientific Reports</i> , 2017 , 7, 15798	4.9	19
50	Mechanochemical Polarization of Contiguous Cell Walls Shapes Plant Pavement Cells. <i>Developmental Cell</i> , 2017 , 43, 290-304.e4	10.2	91
49	deacetylation of xylan affects lignin properties and improves saccharification of aspen wood. <i>Biotechnology for Biofuels</i> , 2017 , 10, 98	7.8	31
48	AspWood: High-Spatial-Resolution Transcriptome Profiles Reveal Uncharacterized Modularity of Wood Formation in. <i>Plant Cell</i> , 2017 , 29, 1585-1604	11.6	119
47	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
46	An efficient method for medium throughput screening of cuticular wax composition in different plant species. <i>Metabolomics</i> , 2016 , 12, 1	4.7	12
45	Genetic analysis of fiber dimensions and their correlation with stem diameter and solid-wood properties in Norway spruce. <i>Tree Genetics and Genomes</i> , 2016 , 12, 1	2.1	18
44	Pectinous cell wall thickenings formation - A common defense strategy of plants to cope with Pb. <i>Environmental Pollution</i> , 2016 , 214, 354-361	9.3	62
43	Method for accurate fiber length determination from increment cores for large-scale population analyses in Norway spruce. <i>Holzforschung</i> , 2016 , 70, 829-838	2	5
42	Colocalization of low-methylated pectins and Pb deposits in the apoplast of aspen roots exposed to lead. <i>Environmental Pollution</i> , 2015 , 205, 315-26	9.3	26
41	Glucuronic acid in Arabidopsis thaliana xylans carries a novel pentose substituent. <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 807-12	7.9	3
40	Active fungal GH115 β glucuronidase produced in Arabidopsis thaliana affects only the UX1-reactive glucuronate decorations on native glucuronoxylans. <i>BMC Biotechnology</i> , 2015 , 15, 56	3.5	10
39	Aspen Tension Wood Fibers Contain β (1 \rightarrow 4)-Galactans and Acidic Arabinogalactans Retained by Cellulose Microfibrils in Gelatinous Walls. <i>Plant Physiology</i> , 2015 , 169, 2048-63	6.6	54
38	Populus GT43 family members group into distinct sets required for primary and secondary wall xylan biosynthesis and include useful promoters for wood modification. <i>Plant Biotechnology Journal</i> , 2015 , 13, 26-37	11.6	33
37	Expression of a fungal glucuronoyl esterase in Populus: effects on wood properties and saccharification efficiency. <i>Phytochemistry</i> , 2015 , 112, 210-20	4	44
36	Suppression of xylan endotransglycosylase PtXyn10A affects cellulose microfibril angle in secondary wall in aspen wood. <i>New Phytologist</i> , 2015 , 205, 666-81	9.8	44

35	Aspen pectate lyase PtxtPL1-27 mobilizes matrix polysaccharides from woody tissues and improves saccharification yield. <i>Biotechnology for Biofuels</i> , 2014 , 7, 11	7.8	56
34	O-acetylation of glucuronoxytan in <i>Arabidopsis thaliana</i> wild type and its change in xylan biosynthesis mutants. <i>Glycobiology</i> , 2014 , 24, 494-506	5.8	36
33	Glycoside Hydrolase Activities in Cell Walls of Sclerenchyma Cells in the Inflorescence Stems of <i>Arabidopsis thaliana</i> Visualized in Situ. <i>Plants</i> , 2014 , 3, 513-25	4.5	2
32	Cell Wall Polymers in Reaction Wood. <i>Springer Series in Wood Science</i> , 2014 , 37-106		18
31	Acetylation of woody lignocellulose: significance and regulation. <i>Frontiers in Plant Science</i> , 2013 , 4, 118	6.2	107
30	Aspen SUCROSE TRANSPORTER3 allocates carbon into wood fibers. <i>Plant Physiology</i> , 2013 , 163, 1729-40	6.6	22
29	Reduced Wall Acetylation proteins play vital and distinct roles in cell wall O-acetylation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013 , 163, 1107-17	6.6	60
28	Xyloglucan endotransglucosylase/hydrolase (XTH) overexpression affects growth and cell wall mechanics in etiolated <i>Arabidopsis hypocotyls</i> . <i>Journal of Experimental Botany</i> , 2013 , 64, 2481-97	7	70
27	Tensional stress generation in gelatinous fibres: a review and possible mechanism based on cell-wall structure and composition. <i>Journal of Experimental Botany</i> , 2012 , 63, 551-65	7	151
26	Constitutive expression of a fungal glucuronoyl esterase in <i>Arabidopsis</i> reveals altered cell wall composition and structure. <i>Plant Biotechnology Journal</i> , 2012 , 10, 1077-87	11.6	27
25	Hierarchical structure of juvenile hybrid aspen xylem revealed using X-ray scattering and microtomography. <i>Trees - Structure and Function</i> , 2012 , 26, 1793-1804	2.6	11
24	Plant Fiber Formation: State of the Art, Recent and Expected Progress, and Open Questions. <i>Critical Reviews in Plant Sciences</i> , 2012 , 31, 201-228	5.6	100
23	Pectin methylesterase is induced in <i>Arabidopsis</i> upon infection and is necessary for a successful colonization by necrotrophic pathogens. <i>Molecular Plant-Microbe Interactions</i> , 2011 , 24, 432-40	3.6	110
22	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
21	Xyloglucan endo-transglycosylase-mediated xyloglucan rearrangements in developing wood of hybrid aspen. <i>Plant Physiology</i> , 2011 , 155, 399-413	6.6	80
20	KORRIGAN1 and its aspen homolog PttCel9A1 decrease cellulose crystallinity in <i>Arabidopsis</i> stems. <i>Plant and Cell Physiology</i> , 2009 , 50, 1099-115	4.9	91
19	A real-time fluorogenic assay for the visualization of glycoside hydrolase activity in planta. <i>Plant Physiology</i> , 2009 , 151, 1741-50	6.6	20
18	An update on the nomenclature for the cellulose synthase genes in <i>Populus</i> . <i>Trends in Plant Science</i> , 2009 , 14, 248-54	13.1	100

17	Microgenomic analysis reveals cell type-specific gene expression patterns between ray and fusiform initials within the cambial meristem of <i>Populus</i> . <i>New Phytologist</i> , 2008 , 180, 45-56	9.8	29
16	Wood cell walls: biosynthesis, developmental dynamics and their implications for wood properties. <i>Current Opinion in Plant Biology</i> , 2008 , 11, 293-300	9.9	172
15	Pectin methyl esterase inhibits intrusive and symplastic cell growth in developing wood cells of <i>Populus</i> . <i>Plant Physiology</i> , 2008 , 146, 554-65	6.6	101
14	MAP20, a microtubule-associated protein in the secondary cell walls of hybrid aspen, is a target of the cellulose synthesis inhibitor 2,6-dichlorobenzonitrile. <i>Plant Physiology</i> , 2008 , 148, 1283-94	6.6	64
13	Xyloglucan: the molecular muscle of trees. <i>Annals of Botany</i> , 2008 , 102, 659-65	4.1	108
12	Ectopic expression of a wood-abundant expansin PttEXPA1 promotes cell expansion in primary and secondary tissues in aspen. <i>Plant Biotechnology Journal</i> , 2008 , 6, 62-72	11.6	55
11	Xyloglucan endo-transglycosylase (XET) functions in gelatinous layers of tension wood fibers in poplar--a glimpse into the mechanism of the balancing act of trees. <i>Plant and Cell Physiology</i> , 2007 , 48, 843-55	4.9	148
10	Poplar carbohydrate-active enzymes. Gene identification and expression analyses. <i>Plant Physiology</i> , 2006 , 140, 946-62	6.6	229
9	Biosynthesis of cellulose-enriched tension wood in <i>Populus</i> : global analysis of transcripts and metabolites identifies biochemical and developmental regulators in secondary wall biosynthesis. <i>Plant Journal</i> , 2006 , 45, 144-65	6.9	306
8	Carbohydrate-active enzymes involved in the secondary cell wall biogenesis in hybrid aspen. <i>Plant Physiology</i> , 2005 , 137, 983-97	6.6	152
7	Expansins abundant in secondary xylem belong to subgroup A of the alpha-expansin gene family. <i>Plant Physiology</i> , 2004 , 135, 1552-64	6.6	100
6	A high-resolution transcript profile across the wood-forming meristem of poplar identifies potential regulators of cambial stem cell identity. <i>Plant Cell</i> , 2004 , 16, 2278-92	11.6	301
5	Differential stage-specific regulation of cyclin-dependent kinases during cambial dormancy in hybrid aspen. <i>Plant Journal</i> , 2004 , 38, 603-15	6.9	82
4	Xyloglucan endotransglycosylases have a function during the formation of secondary cell walls of vascular tissues. <i>Plant Cell</i> , 2002 , 14, 3073-88	11.6	180
3	Unravelling cell wall formation in the woody dicot stem. <i>Plant Molecular Biology</i> , 2001 , 47, 239-274	4.6	276
2	Indole-3-acetic acid controls cambial growth in scots pine by positional signaling. <i>Plant Physiology</i> , 1998 , 117, 113-21	6.6	256
1	AspWood: High-spatial-resolution transcriptome profiles reveal uncharacterized modularity of wood formation in <i>Populus tremula</i>		1