

Shawn D Mansfield

List of Publications by Year in descending order

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257
papers

16,925
citations

10986

71
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19749

117
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260
all docs

260
docs citations

260
times ranked

14660
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate and Enzyme Characteristics that Limit Cellulose Hydrolysis. <i>Biotechnology Progress</i> , 1999, 15, 804-816.	2.6	702
2	Whole plant cell wall characterization using solution-state 2D NMR. <i>Nature Protocols</i> , 2012, 7, 1579-1589.	12.0	563
3	The effect of initial pore volume and lignin content on the enzymatic hydrolysis of softwoods. <i>Bioresource Technology</i> , 1998, 64, 113-119.	9.6	376
4	Downregulation of Cinnamoyl-Coenzyme A Reductase in Poplar: Multiple-Level Phenotyping Reveals Effects on Cell Wall Polymer Metabolism and Structure. <i>Plant Cell</i> , 2007, 19, 3669-3691.	6.6	352
5	The Effects on Lignin Structure of Overexpression of Ferulate 5-Hydroxylase in Hybrid Poplar1 Å. <i>Plant Physiology</i> , 2009, 150, 621-635.	4.8	350
6	Sucrose synthase affects carbon partitioning to increase cellulose production and altered cell wall ultrastructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13118-13123.	7.1	337
7	Monolignol Ferulate Transferase Introduces Chemically Labile Linkages into the Lignin Backbone. <i>Science</i> , 2014, 344, 90-93.	12.6	337
8	Designer lignins: harnessing the plasticity of lignification. <i>Current Opinion in Biotechnology</i> , 2016, 37, 190-200.	6.6	333
9	Characterisation of a pine MYB that regulates lignification. <i>Plant Journal</i> , 2003, 36, 743-754.	5.7	304
10	Fasciclin-like arabinogalactan proteins: specialization for stem biomechanics and cell wall architecture in <i>Arabidopsis</i> and <i>Eucalyptus</i> . <i>Plant Journal</i> , 2010, 62, 689-703.	5.7	289
11	Significant Increases in Pulping Efficiency in C4H-F5H-Transformed Poplars: Improved Chemical Savings and Reduced Environmental Toxins. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 6178-6183.	5.2	263
12	Global transcript profiling of primary stems from <i>Arabidopsis thaliana</i> identifies candidate genes for missing links in lignin biosynthesis and transcriptional regulators of fiber differentiation. <i>Plant Journal</i> , 2005, 42, 618-640.	5.7	254
13	Comparative Transcriptome and Secretome Analysis of Wood Decay Fungi <i>Postia placenta</i> and <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 3599-3610.	3.1	237
14	Cellulase Adsorption and an Evaluation of Enzyme Recycle During Hydrolysis of Steam-Exploded Softwood Residues. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 641-654.	2.9	196
15	RNAi-mediated suppression of <i>p-coumaroyl-CoA 3-hydroxylase</i> in hybrid poplar impacts lignin deposition and soluble secondary metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4501-4506.	7.1	187
16	The Class II <i>KNOX</i> gene <i>KNAT7</i> negatively regulates secondary wall formation in <i>Arabidopsis</i> and is functionally conserved in <i>Populus</i> . <i>New Phytologist</i> , 2012, 194, 102-115.	7.3	186
17	Geographical and environmental gradients shape phenotypic trait variation and genetic structure in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2014, 201, 1263-1276.	7.3	185
18	Involvement of <i>Pinus taeda</i> MYB1 and MYB8 in phenylpropanoid metabolism and secondary cell wall biogenesis: a comparative in planta analysis. <i>Journal of Experimental Botany</i> , 2008, 59, 3925-3939.	4.8	183

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19	MYB75 Functions in Regulation of Secondary Cell Wall Formation in the Arabidopsis Inflorescence Stem. <i>Plant Physiology</i> , 2010, 154, 1428-1438.	4.8	174
20	Genome resequencing reveals multiscale geographic structure and extensive linkage disequilibrium in the forest tree <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2012, 196, 713-725.	7.3	173
21	Genome-wide association implicates numerous genes underlying ecological trait variation in natural populations of <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2014, 203, 535-553.	7.3	171
22	Clone history shapes <i>Populus</i> drought responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12521-12526.	7.1	170
23	Tolerance and adaptation of ethanologenic yeasts to lignocellulosic inhibitory compounds. <i>Biotechnology and Bioengineering</i> , 2006, 93, 1196-1206.	3.3	165
24	Non-structural carbohydrates in woody plants compared among laboratories. <i>Tree Physiology</i> , 2015, 35, tpv073.	3.1	163
25	Dirigent Proteins in Conifer Defense: Gene Discovery, Phylogeny, and Differential Wound- and Insect-induced Expression of a Family of DIR and DIR-like Genes in Spruce (<i>Picea</i> spp.). <i>Plant Molecular Biology</i> , 2006, 60, 21-40.	3.9	160
26	Genome-wide association mapping for wood characteristics in <i>Populus</i> identifies an array of candidate single nucleotide polymorphisms. <i>New Phytologist</i> , 2013, 200, 710-726.	7.3	158
27	Rapid analysis of poplar lignin monomer composition by a streamlined thioacidolysis procedure and near-infrared reflectance-based prediction modeling. <i>Plant Journal</i> , 2009, 58, 706-714.	5.7	156
28	Subgroup 4 R2R3-MYBs in conifer trees: gene family expansion and contribution to the isoprenoid- and flavonoid-oriented responses. <i>Journal of Experimental Botany</i> , 2010, 61, 3847-3864.	4.8	146
29	Effects of <i>PHENYLALANINE AMMONIA LYASE</i> (<i>PAL</i>) knockdown on cell wall composition, biomass digestibility, and biotic and abiotic stress responses in <i>Brachypodium</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 4317-4335.	4.8	146
30	The <i>Arabidopsis</i> <i>MUM2</i> Gene Encodes a Î²-Galactosidase Required for the Production of Seed Coat Mucilage with Correct Hydration Properties. <i>Plant Cell</i> , 2008, 19, 4007-4021.	6.6	145
31	Do Enzymatic Hydrolyzability and Simons' Stain Reflect the Changes in the Accessibility of Lignocellulosic Substrates to Cellulase Enzymes?. <i>Biotechnology Progress</i> , 2001, 17, 1049-1054.	2.6	143
32	Up-regulation of sucrose synthase and UDP-glucose pyrophosphorylase impacts plant growth and metabolism. <i>Plant Biotechnology Journal</i> , 2006, 4, 87-101.	8.3	141
33	The <i>Populus</i> homeobox gene <i>ARBORKNOX1</i> reveals overlapping mechanisms regulating the shoot apical meristem and the vascular cambium. <i>Plant Molecular Biology</i> , 2006, 61, 917-932.	3.9	141
34	Fast and efficient alkaline peroxide treatment to enhance the enzymatic digestibility of steam-exploded softwood substrates. <i>Biotechnology and Bioengineering</i> , 2002, 77, 678-684.	3.3	138
35	Neighboring Parenchyma Cells Contribute to <i>Arabidopsis</i> Xylem Lignification, while Lignification of Interfascicular Fibers Is Cell Autonomous. <i>Plant Cell</i> , 2013, 25, 3988-3999.	6.6	138
36	Light, the circadian clock, and sugar perception in the control of lignin biosynthesis. <i>Journal of Experimental Botany</i> , 2005, 56, 1651-1663.	4.8	137

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37	Designed for deconstruction – poplar trees altered in cell wall lignification improve the efficacy of bioethanol production. <i>New Phytologist</i> , 2012, 194, 91-101.	7.3	135
38	Comparison of lignin deposition in three ectopic lignification mutants. <i>New Phytologist</i> , 2005, 168, 123-140.	7.3	134
39	Perturbed Lignification Impacts Tree Growth in Hybrid Poplar – A Function of Sink Strength, Vascular Integrity, and Photosynthetic Assimilation. <i>Plant Physiology</i> , 2008, 148, 1229-1237.	4.8	133
40	<i>AtMYB61</i> , an R2R3-MYB transcription factor, functions as a pleiotropic regulator via a small gene network. <i>New Phytologist</i> , 2012, 195, 774-786.	7.3	132
41	Visualization of cellulose synthases in <i>Arabidopsis</i> secondary cell walls. <i>Science</i> , 2015, 350, 198-203.	12.6	132
42	Effect of initial moisture content and chip size on the bioconversion efficiency of softwood lignocellulosics. <i>Biotechnology and Bioengineering</i> , 2004, 85, 413-421.	3.3	130
43	The <i>Populus</i> homeobox gene <i>ARBORKNOX2</i> regulates cell differentiation during secondary growth. <i>Plant Journal</i> , 2009, 60, 1000-1014.	5.7	124
44	Recent Y chromosome divergence despite ancient origin of dioecy in poplars (<i>Populus</i>). <i>Molecular Ecology</i> , 2015, 24, 3243-3256.	3.9	121
45	Cellular machinery of wood production: differentiation of secondary xylem in <i>Pinus contorta</i> var. <i>latifolia</i> . <i>Planta</i> , 2002, 216, 72-82.	3.2	116
46	An update on the nomenclature for the cellulose synthase genes in <i>Populus</i> . <i>Trends in Plant Science</i> , 2009, 14, 248-254.	8.8	112
47	Syringyl-Rich Lignin Renders Poplars More Resistant to Degradation by Wood Decay Fungi. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2560-2571.	3.1	108
48	Cortical microtubules optimize cell wall crystallinity to drive unidirectional growth in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2011, 66, 915-928.	5.7	107
49	Significant Alteration of Gene Expression in Wood Decay Fungi <i>Postia placenta</i> and <i>Phanerochaete chrysosporium</i> by Plant Species. <i>Applied and Environmental Microbiology</i> , 2011, 77, 4499-4507.	3.1	106
50	The <i>anisotropy1</i> D604N Mutation in the <i>Arabidopsis</i> Cellulose Synthase1 Catalytic Domain Reduces Cell Wall Crystallinity and the Velocity of Cellulose Synthase Complexes. <i>Plant Physiology</i> , 2013, 162, 74-85.	4.8	106
51	High-resolution genetic mapping of allelic variants associated with cell wall chemistry in <i>Populus</i> . <i>BMC Genomics</i> , 2015, 16, 24.	2.8	106
52	Regulation of secondary cell wall biosynthesis by poplar R2R3 MYB transcription factor <i>PtrMYB152</i> in <i>Arabidopsis</i> . <i>Scientific Reports</i> , 2014, 4, 5054.	3.3	106
53	<i>Populus trichocarpa</i> cell wall chemistry and ultrastructure trait variation, genetic control and genetic correlations. <i>New Phytologist</i> , 2013, 197, 777-790.	7.3	100
54	Naturally p-Hydroxybenzoylated Lignins in Palms. <i>Bioenergy Research</i> , 2015, 8, 934-952.	3.9	99

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55	The cellulose paradox – simple molecule, complex biosynthesis. <i>Current Opinion in Plant Biology</i> , 2007, 10, 220-226.	7.1	98
56	Passive membrane transport of lignin-related compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23117-23123.	7.1	94
57	Transcriptional and Hormonal Regulation of Gravitropism of Woody Stems in <i>Populus</i> . <i>Plant Cell</i> , 2015, 27, tpc.15.00531.	6.6	93
58	The effect of fiber characteristics on hydrolysis and cellulase accessibility to softwood substrates. <i>Enzyme and Microbial Technology</i> , 1999, 25, 644-650.	3.2	92
59	A 34K SNP genotyping array for <i>Populus trichocarpa</i> : Design, application to the study of natural populations and transferability to other <i>Populus</i> species. <i>Molecular Ecology Resources</i> , 2013, 13, 306-323.	4.8	92
60	Factors affecting the accuracy of genomic selection for growth and wood quality traits in an advanced-breeding population of black spruce (<i>Picea mariana</i>). <i>BMC Genomics</i> , 2017, 18, 335.	2.8	92
61	LANDSCAPE GENOMICS OF <i>POPULUS TRICHOCARPA</i> : THE ROLE OF HYBRIDIZATION, LIMITED GENE FLOW, AND NATURAL SELECTION IN SHAPING PATTERNS OF POPULATION STRUCTURE. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 3260-3280.	2.3	88
62	Enhancing the Enzymatic Hydrolysis of Cellulosic Materials Using Simultaneous Ball Milling. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 815-832.	2.9	87
63	Perturbation of Wood Cellulose Synthesis Causes Pleiotropic Effects in Transgenic Aspen. <i>Molecular Plant</i> , 2011, 4, 331-345.	8.3	86
64	SO ₂ -Catalyzed Steam Explosion of Corn Fiber for Ethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 59-72.	2.9	84
65	Investigating the drought-stress response of hybrid poplar genotypes by metabolite profiling. <i>Tree Physiology</i> , 2014, 34, 1203-1219.	3.1	84
66	Solutions for dissolution – engineering cell walls for deconstruction. <i>Current Opinion in Biotechnology</i> , 2009, 20, 286-294.	6.6	83
67	SALT-OVERLY SENSITIVE5 Mediates Arabidopsis Seed Coat Mucilage Adherence and Organization through Pectins. <i>Plant Physiology</i> , 2014, 165, 991-1004.	4.8	83
68	Cellulose factories: advancing bioenergy production from forest trees. <i>New Phytologist</i> , 2012, 194, 54-62.	7.3	82
69	Tracking Monolignols during Wood Development in Lodgepole Pine. <i>Plant Physiology</i> , 2008, 147, 1750-1760.	4.8	79
70	The interacting MYB75 and KNAT7 transcription factors modulate secondary cell wall deposition both in stems and seed coat in Arabidopsis. <i>Planta</i> , 2013, 237, 1199-1211.	3.2	78
71	The developing xylem transcriptome and genome-wide analysis of alternative splicing in <i>Populus trichocarpa</i> (black cottonwood) populations. <i>BMC Genomics</i> , 2013, 14, 359.	2.8	76
72	Sucrose phosphate synthase and sucrose phosphate phosphatase interact in <i>planta</i> and promote plant growth and biomass accumulation. <i>Journal of Experimental Botany</i> , 2015, 66, 4383-4394.	4.8	76

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73	Over-expression of an arabidopsis family A sucrose phosphate synthase (SPS) gene alters plant growth and fibre development. <i>Transgenic Research</i> , 2008, 17, 181-192.	2.4	72
74	Characterization of endoglucanases from the brown rot fungi <i>Gloeophyllum sepiarium</i> and <i>Gloeophyllum trabeum</i> . <i>Enzyme and Microbial Technology</i> , 1998, 23, 133-140.	3.2	71
75	Cellulose hydrolysis – the role of monocomponent cellulases in crystalline cellulose degradation. <i>Cellulose</i> , 2003, 10, 159-169.	4.9	70
76	Cellobiose dehydrogenase, an active agent in cellulose depolymerization. <i>Applied and Environmental Microbiology</i> , 1997, 63, 3804-3809.	3.1	69
77	Over-expression of UDP-glucose pyrophosphorylase in hybrid poplar affects carbon allocation. <i>Journal of Experimental Botany</i> , 2007, 58, 4257-4268.	4.8	67
78	Effects on Lignin Structure of Coumarate 3-Hydroxylase Downregulation in Poplar. <i>Bioenergy Research</i> , 2012, 5, 1009-1019.	3.9	65
79	Characterization and varied expression of a membrane-bound endo- β -1,4-glucanase in hybrid poplar. <i>Plant Biotechnology Journal</i> , 2010, 8, 294-307.	8.3	64
80	Effect of endoglucanases and hemicellulases in magnetic and flotation deinking of xerographic and laser-printed papers. <i>Journal of Biotechnology</i> , 1998, 65, 209-215.	3.8	63
81	Complete substitution of a secondary cell wall with a primary cell wall in Arabidopsis. <i>Nature Plants</i> , 2018, 4, 777-783.	9.3	63
82	The Class II KNOX genes <i>KNAT3</i> and <i>KNAT7</i> work cooperatively to influence deposition of secondary cell walls that provide mechanical support to Arabidopsis stems. <i>Plant Journal</i> , 2020, 101, 293-309.	5.7	63
83	Sucrose phosphate synthase expression influences poplar phenology. <i>Tree Physiology</i> , 2009, 29, 937-946.	3.1	60
84	Poplar trees reconfigure the transcriptome and metabolome in response to drought in a genotype- and time-of-day-dependent manner. <i>BMC Genomics</i> , 2015, 16, 329.	2.8	60
85	Physical characterization of enzymatically modified kraft pulp fibers. <i>Journal of Biotechnology</i> , 1997, 57, 205-216.	3.8	59
86	Enzymatic Treatment of Mechanical Pulp Fibers for Improving Papermaking Properties. <i>Biotechnology Progress</i> , 2000, 16, 1025-1029.	2.6	59
87	Sexual epigenetics: gender-specific methylation of a gene in the sex determining region of <i>Populus balsamifera</i> . <i>Scientific Reports</i> , 2017, 7, 45388.	3.3	59
88	Two Complementary Mechanisms Underpin Cell Wall Patterning during Xylem Vessel Development. <i>Plant Cell</i> , 2017, 29, 2433-2449.	6.6	59
89	Endo- β -1,4-glucanases impact plant cell wall development by influencing cellulose crystallization. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 396-410.	8.5	57
90	Unidirectional Movement of Cellulose Synthase Complexes in Arabidopsis Seed Coat Epidermal Cells Deposit Cellulose Involved in Mucilage Extrusion, Adherence, and Ray Formation. <i>Plant Physiology</i> , 2015, 168, 502-520.	4.8	56

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91	Network-based integration of systems genetics data reveals pathways associated with lignocellulosic biomass accumulation and processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1195-1200.	7.1	55
92	Metabolite profiling of Douglas-fir (<i>Pseudotsuga menziesii</i>) field trials reveals strong environmental and weak genetic variation. <i>New Phytologist</i> , 2007, 174, 762-773.	7.3	54
93	Metabolic dynamics during autumn cold acclimation within and among populations of Sitka spruce (<i>Picea sitchensis</i>). <i>New Phytologist</i> , 2012, 194, 192-205.	7.3	54
94	Sexual homomorphism in dioecious trees: extensive tests fail to detect sexual dimorphism in <i>Populus</i> . <i>Scientific Reports</i> , 2017, 7, 1831.	3.3	54
95	Intraspecific variation in the <i>Populus balsamifera</i> drought transcriptome. <i>Plant, Cell and Environment</i> , 2010, 33, 1742-1755.	5.7	52
96	Transgenic <i>Populus</i> Trees for Forest Products, Bioenergy, and Functional Genomics. <i>Critical Reviews in Plant Sciences</i> , 2011, 30, 415-434.	5.7	52
97	HIGHLY METHYL ESTERIFIED SEEDS Is a Pectin Methyl Esterase Involved in Embryo Development? <i>Plant Physiology</i> , 2015, 167, 725-737.	4.8	52
98	Cellulose synthase complexes display distinct dynamic behaviors during xylem transdifferentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6366-E6374.	7.1	52
99	Degradation of trilinolein by laccase enzymes. <i>Archives of Biochemistry and Biophysics</i> , 2002, 405, 44-54.	3.0	51
100	The effects of crown ratio on the transition from juvenile to mature wood production in lodgepole pine in western Canada. <i>Canadian Journal of Forest Research</i> , 2007, 37, 1450-1459.	1.7	50
101	Optimization of SO ₂ -Catalyzed Steam Pretreatment of Corn Fiber for Ethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2003, 106, 319-336.	2.9	49
102	The influence of lignin chemistry and ultrastructure on the pulping efficiency of clonal aspen (<i>Populus tremuloides</i> Michx.). <i>Holzforschung</i> , 2006, 60, 111-122.	1.9	48
103	Transcriptome profiles of hybrid poplar (<i>Populus trichocarpa</i> × <i>Populus deltoides</i>) reveal rapid changes in undamaged, systemic sink leaves after simulated feeding by forest tent caterpillar (<i>Malacosoma disstria</i>). <i>New Phytologist</i> , 2010, 188, 787-802.	7.3	48
104	Impact of lignin polymer backbone esters on ionic liquid pretreatment of poplar. <i>Biotechnology for Biofuels</i> , 2017, 10, 101.	6.2	48
105	Heritability and phenotypic and genetic correlations of coastal Douglas-fir (<i>Pseudotsuga</i>) Tj ETQq1 1 0.784314 10/17 BT/Overlock 10/17		
106	Comparative interrogation of the developing xylem transcriptomes of two wood-forming species: <i>Populus trichocarpa</i> and <i>Eucalyptus grandis</i> . <i>New Phytologist</i> , 2015, 206, 1391-1405.	7.3	47
107	Engineering monolignol p-coumarate conjugates into Poplar and <i>Arabidopsis</i> lignins. <i>Plant Physiology</i> , 2015, 169, pp.00815.2015.	4.8	47
108	Ploidy Level Affects Important Biomass Traits of Novel Shrub Willow (<i>Salix</i>) Hybrids. <i>Bioenergy Research</i> , 2015, 8, 259-269.	3.9	47

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109	Genetic engineering of trees: progress and new horizons. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2018, 54, 341-376.	2.1	47
110	Revisiting the transition between juvenile and mature wood: a comparison of fibre length, microfibril angle and relative wood density in lodgepole pine. <i>Holzforschung</i> , 2009, 63, 449-456.	1.9	45
111	Defining the Diverse Cell Populations Contributing to Lignification in Arabidopsis Stems. <i>Plant Physiology</i> , 2017, 174, 1028-1036.	4.8	45
112	Chemical Pulping Advantages of Zipped Lignin Hybrid Poplar. <i>ChemSusChem</i> , 2017, 10, 3565-3573.	6.8	45
113	The effects of initial spacing on wood density, fibre and pulp properties in jack pine (<i>Pinus banksiana</i>) Tj ETQq1 1 0,784314 rgBT /Ove	1.9	44
114	The potential of metabolite profiling as a selection tool for genotype discrimination in <i>Populus</i> . <i>Journal of Experimental Botany</i> , 2005, 56, 2807-2819.	4.8	44
115	Identification of quantitative trait loci for wood quality and growth across eight full-sib coastal Douglas-fir families. <i>Tree Genetics and Genomes</i> , 2008, 4, 159-170.	1.6	44
116	Altered sucrose metabolism impacts plant biomass production and flower development. <i>Transgenic Research</i> , 2010, 19, 269-283.	2.4	44
117	Tailor-made trees: engineering lignin for ease of processing and tomorrow's bioeconomy. <i>Current Opinion in Biotechnology</i> , 2019, 56, 147-155.	6.6	44
118	Application of near-infrared spectroscopy for moisture-based sorting of green hem-fir timber. <i>Journal of Wood Science</i> , 2011, 57, 288-294.	1.9	42
119	Enhanced expression of glutamine synthetase (<i>GS1a</i>) confers altered fibre and wood chemistry in field grown hybrid poplar (<i>Populus tremula</i> X <i>alba</i>) (71B4). <i>Plant Biotechnology Journal</i> , 2012, 10, 883-889.	8.3	42
120	Improving genomic prediction of growth and wood traits in <i>Eucalyptus</i> using phenotypes from non-genotyped trees by single-step GBLUP. <i>Plant Science</i> , 2019, 284, 9-15.	3.6	42
121	Natural acetylation impacts carbohydrate recovery during deconstruction of <i>Populus trichocarpa</i> wood. <i>Biotechnology for Biofuels</i> , 2017, 10, 48.	6.2	40
122	Ecological genomics of variation in bud break phenology and mechanisms of response to climate warming in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2018, 220, 300-316.	7.3	40
123	Neural network prediction of bending strength and stiffness in western hemlock (<i>Tsuga heterophylla</i>) Tj ETQq1 1 0,784314 rgBT /Ove	1.9	39
124	Lodgepole pine: the first evidence of seed-based somatic embryogenesis and the expression of embryogenesis marker genes in shoot bud cultures of adult trees. <i>Tree Physiology</i> , 2010, 30, 1469-1478.	3.1	38
125	RUBY, a Putative Galactose Oxidase, Influences Pectin Properties and Promotes Cell-To-Cell Adhesion in the Seed Coat Epidermis of Arabidopsis. <i>Plant Cell</i> , 2019, 31, 809-831.	6.6	38
126	Network analysis reveals the relationship among wood properties, gene expression levels and genotypes of natural <i>Populus trichocarpa</i> accessions. <i>New Phytologist</i> , 2013, 200, 727-742.	7.3	37

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127	Analysis of Molecular Size Distributions of Cellulose Molecules during Hydrolysis of Cellulose by Recombinant <i>Cellulomonas fimi</i> β -1,4-Glucanases. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2374-2379.	3.1	36
128	Isolation and characterization of galactinol synthases from hybrid poplar. <i>Journal of Experimental Botany</i> , 2012, 63, 2059-2069.	4.8	35
129	Gene Expression Patterns of Wood Decay Fungi <i>Postia placenta</i> and <i>Phanerochaete chrysosporium</i> Are Influenced by Wood Substrate Composition during Degradation. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4387-4400.	3.1	35
130	The influence of bark on the fermentation of Douglas-fir whitewood pre-hydrolysates. <i>Applied Microbiology and Biotechnology</i> , 2002, 59, 443-448.	3.6	34
131	An ethanologenic yeast exhibiting unusual metabolism in the fermentation of lignocellulosic hexose sugars. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2004, 31, 235-244.	3.0	34
132	Predicting the regenerative capacity of conifer somatic embryogenic cultures by metabolomics. <i>Plant Biotechnology Journal</i> , 2009, 7, 952-963.	8.3	34
133	Patterned Deposition of Xylan and Lignin is Independent from that of the Secondary Wall Cellulose of <i>Arabidopsis</i> Xylem Vessels. <i>Plant Cell</i> , 2018, 30, 2663-2676.	6.6	34
134	<i>Arabidopsis</i> sucrose synthase localization indicates a primary role in sucrose translocation in phloem. <i>Journal of Experimental Botany</i> , 2020, 71, 1858-1869.	4.8	34
135	Histology and cell wall biochemistry of stone cells in the physical defence of conifers against insects. <i>Plant, Cell and Environment</i> , 2016, 39, 1646-1661.	5.7	33
136	Wood Formation in <i>Populus</i> . , 2010, , 201-224.		33
137	Suppression of CINNAMOYL-CoA REDUCTASE increases the level of monolignol ferulates incorporated into maize lignins. <i>Biotechnology for Biofuels</i> , 2017, 10, 109.	6.2	32
138	The fermentability of concentrated softwood-derived hemicellulose fractions with and without supplemental cellulose hydrolysates. <i>Enzyme and Microbial Technology</i> , 2003, 33, 757-765.	3.2	31
139	In situ wood quality assessment in Douglas-fir. <i>Tree Genetics and Genomes</i> , 2011, 7, 553-561.	1.6	31
140	The endo- β -1,4- β -glucanase <i>Korrigan</i> exhibits functional conservation between gymnosperms and angiosperms and is required for proper cell wall formation in gymnosperms. <i>New Phytologist</i> , 2012, 193, 1076-1087.	7.3	31
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