

Shawn D Mansfield

List of Publications by Year in descending order

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257
papers

16,925
citations

12597

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Exogenous chalcone synthase expression in developing poplar xylem incorporates naringenin into lignins. <i>Plant Physiology</i> , 2022, 188, 984-996.	2.3	14
2	FLA11 and FLA12 glycoproteins fine-tune stem secondary wall properties in response to mechanical stresses. <i>New Phytologist</i> , 2022, 233, 1750-1767.	3.5	27
3	Monolignol export by diffusion down a polymerization-induced concentration gradient. <i>Plant Cell</i> , 2022, 34, 2080-2095.	3.1	30
4	Oxidative enzymes in lignification. <i>Advances in Botanical Research</i> , 2022, , 133-167.	0.5	2
5	Initial wood trait variation overwhelms endophyte community effects for explaining decay trajectories. <i>Functional Ecology</i> , 2022, 36, 1243-1257.	1.7	2
6	Integrating genomic information and productivity and climate-adaptability traits into a regional white spruce breeding program. <i>PLoS ONE</i> , 2022, 17, e0264549.	1.1	7
7	A new approach to zipâ€lignin: 3,4â€dihydroxybenzoate is compatible with lignification. <i>New Phytologist</i> , 2022, 235, 234-246.	3.5	12
8	<i>HBMT1</i> , a BAHD-family monolignol acyltransferase, mediates lignin acylation in poplar. <i>Plant Physiology</i> , 2022, 188, 1014-1027.	2.3	18
9	Metabolite profiling reveals complex relationship between developing xylem metabolism and intra-ring checking in <i>Pinus radiata</i> . <i>Holzforschung</i> , 2022, 76, 120-132.	0.9	2
10	Evolutionary Patterns in Chemical Composition and Biomechanics of Articulated Coralline Algae. <i>Integrative and Comparative Biology</i> , 2022, 62, 652-667.	0.9	5
11	Understanding the Role of <i>Populus</i> ECERIFERUM2-Likes in the Biosynthesis of Very-Long-Chain Fatty Acids for Cuticular Waxes. <i>Plant and Cell Physiology</i> , 2021, 62, 827-838.	1.5	6
12	Opportunities and barriers for biofuel and bioenergy production from poplar. <i>GCB Bioenergy</i> , 2021, 13, 905-913.	2.5	10
13	Variations in cell wall traits impact saccharification potential of <i>Salix famelica</i> and <i>Salix eriocephala</i> . <i>Biomass and Bioenergy</i> , 2021, 148, 106051.	2.9	7
14	Pectin Modification in Seed Coat Mucilage by <i>In Vivo</i> Expression of Rhamnogalacturonan-I- and Homogalacturonan-Degrading Enzymes. <i>Plant and Cell Physiology</i> , 2021, 62, 1912-1926.	1.5	8
15	Tailoring renewable materials via plant biotechnology. <i>Biotechnology for Biofuels</i> , 2021, 14, 167.	6.2	25
16	Cannabis Glandular Trichome Cell Walls Undergo Remodeling to Store Specialized Metabolites. <i>Plant and Cell Physiology</i> , 2021, , .	1.5	12
17	Wood quality trait associations with climate: Room for improvement in two northern commercial tree species?. <i>Forest Ecology and Management</i> , 2021, 497, 119492.	1.4	7
18	ToF-SIMS imaging reveals that <i>p</i> -hydroxybenzoate groups specifically decorate the lignin of fibres in the xylem of poplar and willow. <i>Holzforschung</i> , 2021, 75, 452-462.	0.9	21

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19	Distinct and Overlapping Functions of Miscanthus sinensis MYB Transcription Factors SCM1 and MYB103 in Lignin Biosynthesis. International Journal of Molecular Sciences, 2021, 22, 12395.	1.8	5
20	Biotechnological mechanism for improving plant remobilization of phosphorus during leaf senescence. Plant Biotechnology Journal, 2020, 18, 470-478.	4.1	3
21	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. Plant Journal, 2020, 101, 293-309.	2.8	63
22	Assessing the sensitivities of genomic selection for growth and wood quality traits in lodgepole pine using Bayesian models. Tree Genetics and Genomes, 2020, 16, 1.	0.6	30
23	Learning from methylomes: epigenomic correlates of <i>Populus balsamifera</i> traits based on deep learning models of natural DNA methylation. Plant Biotechnology Journal, 2020, 18, 1361-1375.	4.1	11
24	Arabidopsis sucrose synthase localization indicates a primary role in sucrose translocation in phloem. Journal of Experimental Botany, 2020, 71, 1858-1869.	2.4	34
25	Discerning the effects of phosphate status on the metabolism of hybrid poplar. Tree Physiology, 2020, 40, 158-169.	1.4	1
26	Atypical lignification in eastern leatherwood (<i>Dirca palustris</i>). New Phytologist, 2020, 226, 704-713.	3.5	15
27	Wood and Pulping Properties Variation of <i>Acacia crassicarpa</i> A.Cunn. ex Benth. and Sampling Strategies for Accurate Phenotyping. Forests, 2020, 11, 1043.	0.9	5
28	Dwarfism of high δ monolignol Arabidopsis plants is rescued by ectopic LACCASE overexpression. Plant Direct, 2020, 4, e00265.	0.8	17
29	Prediction accuracy of single-step BLUP for growth and wood quality traits in the lodgepole pine breeding program in British Columbia. Tree Genetics and Genomes, 2020, 16, 1.	0.6	15
30	Physiological Response of <i>Populus balsamifera</i> and <i>Salix eriocephala</i> to Salinity and Hydraulic Fracturing Wastewater: Potential for Phytoremediation Applications. International Journal of Environmental Research and Public Health, 2020, 17, 7641.	1.2	5
31	CELLULOSE SYNTHASE INTERACTING 1 is required for wood mechanics and leaf morphology in aspen. Plant Journal, 2020, 103, 1858-1868.	2.8	10
32	The uncharacterized gene <i>EVE</i> contributes to vessel element dimensions in <i>Populus</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5059-5066.	3.3	11
33	Differences in growth and physiological and metabolic responses among Canadian native and hybrid willows (<i>Salix</i> spp.) under salinity stress. Tree Physiology, 2020, 40, 652-666.	1.4	14
34	An introduction to a Virtual Issue on Wood Biology. New Phytologist, 2020, 225, 1401-1403.	3.5	1
35	Determination of Soluble Carbohydrates. , 2020, , 131-137.		1
36	Extracellular Fungal Hydrolytic Enzyme Activity. , 2020, , 387-395.		0

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37	Passive membrane transport of lignin-related compounds. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23117-23123.	3.3	94
38	Assessing the utility of seed coat-specific promoters to engineer cell wall polysaccharide composition of mucilage. Plant Molecular Biology, 2019, 101, 373-387.	2.0	9
39	Quantitative genetic parameters for growth and wood properties in <i>Eucalyptus × eurograndis</i> hybrid using near-infrared phenotyping and genome-wide SNP-based relationships. PLoS ONE, 2019, 14, e0218747.	1.1	29
40	A systems genetics analysis in <i>Eucalyptus</i> reveals coordination of metabolic pathways associated with xylan modification in wood-forming tissues. New Phytologist, 2019, 223, 1952-1972.	3.5	10
41	Imaging Changes in Cell Walls of Engineered Poplar by Stimulated Raman Scattering and Atomic Force Microscopy. ACS Sustainable Chemistry and Engineering, 2019, 7, 10616-10622.	3.2	8
42	A role for <i>SPEECHLESS</i> in the integration of leaf stomatal patterning with the growth vs disease trade-off in poplar. New Phytologist, 2019, 223, 1888-1903.	3.5	25
43	Improving genomic prediction of growth and wood traits in <i>Eucalyptus</i> using phenotypes from non-genotyped trees by single-step GBLUP. Plant Science, 2019, 284, 9-15.	1.7	42
44	RUBY, a Putative Galactose Oxidase, Influences Pectin Properties and Promotes Cell-To-Cell Adhesion in the Seed Coat Epidermis of Arabidopsis. Plant Cell, 2019, 31, 809-831.	3.1	38
45	Near-infrared-based models for lignin syringyl/guaiacyl ratio of <i>Eucalyptus benthamii</i> and <i>E. pellita</i> using a streamlined thioacidolysis procedure as the reference method. Wood Science and Technology, 2019, 53, 521-533.	1.4	10
46	Differences in drought resistance in nine North American hybrid poplars. Trees - Structure and Function, 2019, 33, 1111-1128.	0.9	3
47	Organization of Xylan Production in the Golgi During Secondary Cell Wall Biosynthesis. Plant Physiology, 2019, 181, 527-546.	2.3	18
48	The in vivo impact of MsLAC1, a <i>Miscanthus</i> laccase isoform, on lignification and lignin composition contrasts with its in vitro substrate preference. BMC Plant Biology, 2019, 19, 552.	1.6	16
49	Tailor-made trees: engineering lignin for ease of processing and tomorrow's bioeconomy. Current Opinion in Biotechnology, 2019, 56, 147-155.	3.3	44
50	Analysis of Monosaccharides from Arabidopsis Seed Mucilage and Whole Seeds Using HPAEC-PAD. Bio-protocol, 2019, 9, e3464.	0.2	5
51	Cell wall chemistry and tissue structure underlie shifts in material properties of a perennial kelp. European Journal of Phycology, 2018, 53, 307-317.	0.9	22
52	Assessing the between-background stability of metabolic effects arising from lignin-related transgenic modifications, in two <i>Populus</i> hybrids using non-targeted metabolomics. Tree Physiology, 2018, 38, 378-396.	1.4	9
53	Engineered Lignin in Poplar Biomass Facilitates Cu-Catalyzed Alkaline-Oxidative Pretreatment. ACS Sustainable Chemistry and Engineering, 2018, 6, 2932-2941.	3.2	31
54	Global near infrared spectroscopy models to predict wood chemical properties of <i>Eucalyptus</i> . Journal of Near Infrared Spectroscopy, 2018, 26, 117-132.	0.8	19

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55	Phosphorus storage and resorption in riparian tree species: Environmental applications of poplar and willow. <i>Environmental and Experimental Botany</i> , 2018, 149, 1-8.	2.0	20
56	Exploiting CELLULOSE SYNTHASE (CESA) Class Specificity to Probe Cellulose Microfibril Biosynthesis. <i>Plant Physiology</i> , 2018, 177, 151-167.	2.3	31
57	Overexpression of AtGOLS3 and CsRFS in poplar enhances ROS tolerance and represses defense response to leaf rust disease. <i>Tree Physiology</i> , 2018, 38, 457-470.	1.4	23
58	Complete substitution of a secondary cell wall with a primary cell wall in Arabidopsis. <i>Nature Plants</i> , 2018, 4, 777-783.	4.7	63
59	Patterned Deposition of Xylan and Lignin is Independent from that of the Secondary Wall Cellulose of Arabidopsis Xylem Vessels. <i>Plant Cell</i> , 2018, 30, 2663-2676.	3.1	34
60	Localization of gene expression, tissue specificity of <i>Populus</i> xylosyltransferase genes by isolation and functional characterization of their promoters. <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 134, 503-508.	1.2	22
61	Climatic drivers of genotypeâ€œenvironment interactions in lodgepole pine based on multi-environment trial data and a factor analytic model of additive covariance. <i>Canadian Journal of Forest Research</i> , 2018, 48, 835-854.	0.8	17
62	Genetic engineering of trees: progress and new horizons. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2018, 54, 341-376.	0.9	47
63	Ecological genomics of variation in budâ€œbreak phenology and mechanisms of response to climate warming in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2018, 220, 300-316.	3.5	40
64	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.	3.3	52
65	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.	3.3	55
66	Wood species identification by near-infrared spectroscopy. <i>International Wood Products Journal</i> , 2017, 8, 32-35.	0.6	17
67	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.	1.6	59
68	Defining the Diverse Cell Populations Contributing to Lignification in Arabidopsis Stems. <i>Plant Physiology</i> , 2017, 174, 1028-1036.	2.3	45
69	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.	1.2	92
70	Sexual homomorphism in dioecious trees: extensive tests fail to detect sexual dimorphism in <i>Populus</i> . <i>Scientific Reports</i> , 2017, 7, 1831.	1.6	54
71	Natural acetylation impacts carbohydrate recovery during deconstruction of <i>Populus trichocarpa</i> wood. <i>Biotechnology for Biofuels</i> , 2017, 10, 48.	6.2	40
72	Altering carbon allocation in hybrid poplar (<i>Populus alba</i> Ã— <i>Populus grandidentata</i>) impacts cell wall growth and development. <i>Plant Biotechnology Journal</i> , 2017, 15, 865-878.	4.1	24

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73	Two Complementary Mechanisms Underpin Cell Wall Patterning during Xylem Vessel Development. <i>Plant Cell</i> , 2017, 29, 2433-2449.	3.1	59
74	Exploiting Natural Variation to Uncover an Alkene Biosynthetic Enzyme in Poplar. <i>Plant Cell</i> , 2017, 29, 2000-2015.	3.1	17
75	Chemical Pulping Advantages of Zipped Lignin Hybrid Poplar. <i>ChemSusChem</i> , 2017, 10, 3565-3573.	3.6	45
76	Impact of lignin polymer backbone esters on ionic liquid pretreatment of poplar. <i>Biotechnology for Biofuels</i> , 2017, 10, 101.	6.2	48
77	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
78	Cambial injury in lodgepole pine (<i>Pinus contorta</i>): mountain pine beetle vs fire. <i>Tree Physiology</i> , 2017, 37, 1611-1621.	1.4	6
79	Near-Infrared Spectroscopic Separation of Green Chain Sub-Alpine Fir Lumber from a Spruce-Pine-Fir Mix. <i>BioResources</i> , 2017, 12, .	0.5	6
80	Elevated temperature and CO ₂ stimulate late season photosynthesis but impair cold hardening in pine. <i>Plant Physiology</i> , 2016, 172, pp.00753.2016.	2.3	16
81	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.	1.4	35
82	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.	2.8	33
83	Designer lignins: harnessing the plasticity of lignification. <i>Current Opinion in Biotechnology</i> , 2016, 37, 190-200.	3.3	333
84	Spatially and temporally restricted expression of PtrMYB021 regulates secondary cell wall formation in Arabidopsis. <i>Journal of Plant Biology</i> , 2016, 59, 16-23.	0.9	9
85	Wood microfibril angle variation after drying. <i>Holzforschung</i> , 2016, 70, 485-488.	0.9	8
86	Assessing the wood quality of interior spruce (<i>Picea glauca</i> – <i>P. engelmannii</i>): variation in strength, relative density, microfibril angle, and fiber length. <i>Holzforschung</i> , 2016, 70, 223-234.	0.9	12
87	The Arabidopsis Domain of Unknown Function 1218 (DUF1218) Containing Proteins, MODIFYING WALL LIGNIN-1 and 2 (At1g31720/MWL-1 and At4g19370/MWL-2) Function Redundantly to Alter Secondary Cell Wall Lignin Content. <i>PLoS ONE</i> , 2016, 11, e0150254.	1.1	14
88	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.	4.1	57
89	Recent Y chromosome divergence despite ancient origin of dioecy in poplars (<i>Populus</i>). <i>Molecular Ecology</i> , 2015, 24, 3243-3256.	2.0	121
90	Variation in Trembling Aspen and White Spruce Wood Quality Grown in Mixed and Single Species Stands in the Boreal Mixedwood Forest. <i>Forests</i> , 2015, 6, 1628-1648.	0.9	0

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91	Evolutionary Quantitative Genomics of <i>Populus trichocarpa</i> . PLoS ONE, 2015, 10, e0142864.	1.1	31
92	Sucrose phosphate synthase and sucrose phosphate phosphatase interact in plants and promote plant growth and biomass accumulation. Journal of Experimental Botany, 2015, 66, 4383-4394.	2.4	76
93	Effects of PHENYLALANINE AMMONIA LYASE (PAL) knockdown on cell wall composition, biomass digestibility, and biotic and abiotic stress responses in <i>Brachypodium</i> . Journal of Experimental Botany, 2015, 66, 4317-4335.	2.4	146
94	Unidirectional Movement of Cellulose Synthase Complexes in Arabidopsis Seed Coat Epidermal Cells Deposit Cellulose Involved in Mucilage Extrusion, Adherence, and Ray Formation. Plant Physiology, 2015, 168, 502-520.	2.3	56
95	Comparative interrogation of the developing xylem transcriptomes of two wood-forming species: <i>Populus trichocarpa</i> and <i>Eucalyptus grandis</i> . New Phytologist, 2015, 206, 1391-1405.	3.5	47
96	HIGHLY METHYL ESTERIFIED SEEDS Is a Pectin Methyl Esterase Involved in Embryo Development? Plant Physiology, 2015, 167, 725-737.	2.3	52
97	Sensitivity of cold acclimation to elevated autumn temperature in field-grown <i>Pinus strobus</i> seedlings. Frontiers in Plant Science, 2015, 6, 165.	1.7	23
98	Naturally p-Hydroxybenzoylated Lignins in Palms. Bioenergy Research, 2015, 8, 934-952.	2.2	99
99	High-resolution genetic mapping of allelic variants associated with cell wall chemistry in <i>Populus</i> . BMC Genomics, 2015, 16, 24.	1.2	106
100	Poplar trees reconfigure the transcriptome and metabolome in response to drought in a genotype- and time-of-day-dependent manner. BMC Genomics, 2015, 16, 329.	1.2	60
101	Tubulin perturbation leads to unexpected cell wall modifications and affects stomatal behaviour in <i>Populus</i> . Journal of Experimental Botany, 2015, 66, 6507-6518.	2.4	20
102	Comparative analysis of plant carbohydrate active enzymes and their role in xylogenesis. BMC Genomics, 2015, 16, 402.	1.2	23
103	Engineering monolignol p-coumarate conjugates into Poplar and Arabidopsis lignins. Plant Physiology, 2015, 169, pp.00815.2015.	2.3	47
104	Non-structural carbohydrates in woody plants compared among laboratories. Tree Physiology, 2015, 35, tpv073.	1.4	163
105	Transcriptional and Hormonal Regulation of Gravitropism of Woody Stems in <i>Populus</i> . Plant Cell, 2015, 27, tpc.15.00531.	3.1	93
106	Visualization of cellulose synthases in Arabidopsis secondary cell walls. Science, 2015, 350, 198-203.	6.0	132
107	Investigating the molecular underpinnings underlying morphology and changes in carbon partitioning during tension wood formation in <i>Eucalyptus</i> . New Phytologist, 2015, 206, 1351-1363.	3.5	27
108	Ploidy Level Affects Important Biomass Traits of Novel Shrub Willow (<i>Salix</i>) Hybrids. Bioenergy Research, 2015, 8, 259-269.	2.2	47

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109	Influence of Populus Genotype on Gene Expression by the Wood Decay Fungus Phanerochaete chrysosporium. Applied and Environmental Microbiology, 2014, 80, 5828-5835.	1.4	28
110	Investigating the drought-stress response of hybrid poplar genotypes by metabolite profiling. Tree Physiology, 2014, 34, 1203-1219.	1.4	84
111	LANDSCAPE GENOMICS OF <i>POPULUS TRICHOCARPA</i> : THE ROLE OF HYBRIDIZATION, LIMITED GENE FLOW, AND NATURAL SELECTION IN SHAPING PATTERNS OF POPULATION STRUCTURE. Evolution; International Journal of Organic Evolution, 2014, 68, 3260-3280.	1.1	88
112	Extensive Functional Pleiotropy of REVOLUTA Substantiated through Forward Genetics. Plant Physiology, 2014, 164, 548-554.	2.3	17
113	Genetics of wood quality attributes in Western Larch. Annals of Forest Science, 2014, 71, 415-424.	0.8	12
114	Cell Wall-Related Proteins of Unknown Function: Missing Links in Plant Cell Wall Development. Plant and Cell Physiology, 2014, 55, 1031-1043.	1.5	25
115	Monolignol Ferulate Transferase Introduces Chemically Labile Linkages into the Lignin Backbone. Science, 2014, 344, 90-93.	6.0	337
116	Geographical and environmental gradients shape phenotypic trait variation and genetic structure in <i>Populus trichocarpa</i> . New Phytologist, 2014, 201, 1263-1276.	3.5	185
117	SALT-OVERLY SENSITIVE5 Mediates Arabidopsis Seed Coat Mucilage Adherence and Organization through Pectins. Plant Physiology, 2014, 165, 991-1004.	2.3	83
118	Genome-wide association implicates numerous genes underlying ecological trait variation in natural populations of <i>Populus trichocarpa</i> . New Phytologist, 2014, 203, 535-553.	3.5	171
119	Regulation of secondary cell wall biosynthesis by poplar R2R3 MYB transcription factor PtrMYB152 in Arabidopsis. Scientific Reports, 2014, 4, 5054.	1.6	106
120	The developing xylem transcriptome and genome-wide analysis of alternative splicing in Populus trichocarpa (black cottonwood) populations. BMC Genomics, 2013, 14, 359.	1.2	76
121	Development of a green binder system for paper products. BMC Biotechnology, 2013, 13, 28.	1.7	20
122	Genome-wide association mapping for wood characteristics in <i>Populus</i> identifies an array of candidate single nucleotide polymorphisms. New Phytologist, 2013, 200, 710-726.	3.5	158
123	The interacting MYB75 and KNAT7 transcription factors modulate secondary cell wall deposition both in stems and seed coat in Arabidopsis. Planta, 2013, 237, 1199-1211.	1.6	78
124	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. Molecular Ecology Resources, 2013, 13, 306-323.	2.2	92
125	Chemical responses to modified lignin composition in tension wood of hybrid poplar (<i>Populus</i>) Tj ETQq1 1 0.784314.rgBT /Overlock 10	1.4	16
126	Hybrid e-regression and validation soft computing techniques: The case of wood dielectric loss factor. Neurocomputing, 2013, 107, 33-39.	3.5	1

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127	<i>Populus trichocarpa</i> cell wall chemistry and ultrastructure trait variation, genetic control and genetic correlations. <i>New Phytologist</i> , 2013, 197, 777-790.	3.5	100
128	Syringyl-Rich Lignin Renders Poplars More Resistant to Degradation by Wood Decay Fungi. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2560-2571.	1.4	108
129	The <i>anisotropy1</i> D604N Mutation in the Arabidopsis Cellulose Synthase1 Catalytic Domain Reduces Cell Wall Crystallinity and the Velocity of Cellulose Synthase Complexes. <i>Plant Physiology</i> , 2013, 162, 74-85.	2.3	106
130	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.	3.1	138
131	Predicting Douglas-fir wood density by artificial neural networks (ANN) based on progeny testing information. <i>Holzforschung</i> , 2013, 67, 771-777.	0.9	19
132	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.	3.5	37
133	Wood Quality and Growth Characterization across Intra- and Inter-Specific Hybrid Aspen Clones. <i>Forests</i> , 2013, 4, 786-807.	0.9	17
134	Association Analysis Identifies <i>Melampsora columbiana</i> Poplar Leaf Rust Resistance SNPs. <i>PLoS ONE</i> , 2013, 8, e78423.	1.1	31
135	Isolation and characterization of galactinol synthases from hybrid poplar. <i>Journal of Experimental Botany</i> , 2012, 63, 2059-2069.	2.4	35
136	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.	3.5	173
137	Whole plant cell wall characterization using solution-state 2D NMR. <i>Nature Protocols</i> , 2012, 7, 1579-1589.	5.5	563
138	<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.	3.5	132
139	Effects on Lignin Structure of Coumarate 3-Hydroxylase Downregulation in Poplar. <i>Bioenergy Research</i> , 2012, 5, 1009-1019.	2.2	65
140	Genetic effects on wood quality traits of plantation-grown white spruce (<i>Picea glauca</i>) and their relationships with growth. <i>Tree Genetics and Genomes</i> , 2012, 8, 303-311.	0.6	20
141	Cellulose factories: advancing bioenergy production from forest trees. <i>New Phytologist</i> , 2012, 194, 54-62.	3.5	82
142	The endo- α -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.	3.5	31
143	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.	3.5	186
144	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.	3.5	54

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145	Designed for deconstruction – poplar trees altered in cell wall lignification improve the efficacy of bioethanol production. <i>New Phytologist</i> , 2012, 194, 91-101.	3.5	135
146	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>Populus alba</i>) (717B4). <i>Plant Biotechnology Journal</i> , 2012, 10, 883-889.	4.1	42
147	Wet-pocket classification in <i>Abies lasiocarpa</i> using spectroscopy in the visible and near infrared range. <i>European Journal of Wood and Wood Products</i> , 2012, 70, 61-67.	1.3	15
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