

Timothy J Tschaplinski

List of Publications by Year in descending order

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179
papers

18,822
citations

26567

56
h-index

12910

131
g-index

187
all docs

187
docs citations

187
times ranked

21821
citing authors

#	ARTICLE	IF	CITATIONS
1	The Path Forward for Biofuels and Biomaterials. <i>Science</i> , 2006, 311, 484-489.	6.0	4,935
2	Lignin Valorization: Improving Lignin Processing in the Biorefinery. <i>Science</i> , 2014, 344, 1246843.	6.0	2,994
3	Priming in Systemic Plant Immunity. <i>Science</i> , 2009, 324, 89-91.	6.0	749
4	The genome of <i>Eucalyptus grandis</i> . <i>Nature</i> , 2014, 510, 356-362.	13.7	725
5	Plant water relations at elevated CO ₂ - implications for water-limited environments. <i>Plant, Cell and Environment</i> , 2002, 25, 319-331.	2.8	352
6	Genome-wide analysis of the structural genes regulating defense phenylpropanoid metabolism in <i>Populus</i> . <i>New Phytologist</i> , 2006, 172, 47-62.	3.5	271
7	A physical catalyst for the electrolysis of nitrogen to ammonia. <i>Science Advances</i> , 2018, 4, e1700336.	4.7	264
8	Regulation of Lignin Biosynthesis and Its Role in Growth-Defense Tradeoffs. <i>Frontiers in Plant Science</i> , 2018, 9, 1427.	1.7	231
9	Engineering crassulacean acid metabolism to improve water-use efficiency. <i>Trends in Plant Science</i> , 2014, 19, 327-338.	4.3	206
10	Carbon-negative production of acetone and isopropanol by gas fermentation at industrial pilot scale. <i>Nature Biotechnology</i> , 2022, 40, 335-344.	9.4	195
11	The fate of lignin during hydrothermal pretreatment. <i>Biotechnology for Biofuels</i> , 2013, 6, 110.	6.2	191
12	Efficient Degradation of Lignocellulosic Plant Biomass, without Pretreatment, by the Thermophilic Anaerobe <i>Anaerocellum thermophilum</i> DSM 6725. <i>Applied and Environmental Microbiology</i> , 2009, 75, 4762-4769.	1.4	187
13	4-Coumarate 3-hydroxylase in the lignin biosynthesis pathway is a cytosolic ascorbate peroxidase. <i>Nature Communications</i> , 2019, 10, 1994.	5.8	171
14	The <i>Kalanchoë</i> genome provides insights into convergent evolution and building blocks of crassulacean acid metabolism. <i>Nature Communications</i> , 2017, 8, 1899.	5.8	159
15	Transcript, protein and metabolite temporal dynamics in the CAM plant <i>Agave</i> . <i>Nature Plants</i> , 2016, 2, 16178.	4.7	158
16	Comparative genomics of <i>Mortierella elongata</i> and its bacterial endosymbiont <i>Mycoavidus cysteinexigens</i> . <i>Environmental Microbiology</i> , 2017, 19, 2964-2983.	1.8	154
17	Transcriptomic and metabolomic profiling of <i>Zymomonas mobilis</i> during aerobic and anaerobic fermentations. <i>BMC Genomics</i> , 2009, 10, 34.	1.2	138
18	Phenotypic variation in growth and biomass distribution for two advanced-generation pedigrees of hybrid poplar. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1779-1789.	0.8	134

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19	Transgenic modification of <i>gai</i> or <i>rgl1</i> causes dwarfing and alters gibberellins, root growth, and metabolite profiles in <i>Populus</i> . <i>Planta</i> , 2006, 224, 288-299.	1.6	130
20	The F-Box Gene Family Is Expanded in Herbaceous Annual Plants Relative to Woody Perennial Plants. <i>Plant Physiology</i> , 2008, 148, 1189-1200.	2.3	125
21	Combined inactivation of the <i>Clostridium cellulolyticum</i> lactate and malate dehydrogenase genes substantially increases ethanol yield from cellulose and switchgrass fermentations. <i>Biotechnology for Biofuels</i> , 2012, 5, 2.	6.2	125
22	Enhanced characteristics of genetically modified switchgrass (<i>Panicum virgatum</i> L.) for high biofuel production. <i>Biotechnology for Biofuels</i> , 2013, 6, 71.	6.2	118
23	Breeding progress and preparedness for mass-scale deployment of perennial lignocellulosic biomass crops switchgrass, miscanthus, willow and poplar. <i>GCB Bioenergy</i> , 2019, 11, 118-151.	2.5	116
24	Two Poplar-Associated Bacterial Isolates Induce Additive Favorable Responses in a Constructed Plant-Microbiome System. <i>Frontiers in Plant Science</i> , 2016, 7, 497.	1.7	113
25	Genome-wide association studies and expression-based quantitative trait loci analyses reveal roles of <i>HCT2</i> in caffeoylquinic acid biosynthesis and its regulation by defense-responsive transcription factors in <i>Populus</i> . <i>New Phytologist</i> , 2018, 220, 502-516.	3.5	112
26	Rhizosphere microbiomes diverge among <i>Populus trichocarpa</i> plant-host genotypes and chemotypes, but it depends on soil origin. <i>Microbiome</i> , 2019, 7, 76.	4.9	109
27	An In-Depth Understanding of Biomass Recalcitrance Using Natural Poplar Variants as the Feedstock. <i>ChemSusChem</i> , 2017, 10, 139-150.	3.6	106
28	Discovery and annotation of small proteins using genomics, proteomics, and computational approaches. <i>Genome Research</i> , 2011, 21, 634-641.	2.4	105
29	<i>Pseudomonas fluorescens</i> Induces Strain-Dependent and Strain-Independent Host Plant Responses in Defense Networks, Primary Metabolism, Photosynthesis, and Fitness. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 765-778.	1.4	100
30	Genomics of Secondary Metabolism in <i>Populus</i> : Interactions with Biotic and Abiotic Environments. <i>Critical Reviews in Plant Sciences</i> , 2009, 28, 375-392.	2.7	98
31	Drought resistance of two hybrid <i>Populus</i> clones grown in a large-scale plantation. <i>Tree Physiology</i> , 1998, 18, 653-658.	1.4	96
32	Down-regulation of the caffeic acid O-methyltransferase gene in switchgrass reveals a novel monolignol analog. <i>Biotechnology for Biofuels</i> , 2012, 5, 71.	6.2	96
33	The exometabolome of <i>Clostridium thermocellum</i> reveals overflow metabolism at high cellulose loading. <i>Biotechnology for Biofuels</i> , 2014, 7, 155.	6.2	96
34	Identification, characterization of an AP2/ERF transcription factor that promotes adventitious, lateral root formation in <i>Populus</i> . <i>Planta</i> , 2013, 238, 271-282.	1.6	92
35	Closing the carbon balance for fermentation by <i>Clostridium thermocellum</i> (ATCC 27405). <i>Bioresource Technology</i> , 2012, 103, 293-299.	4.8	90
36	Abiotic Stresses Shift Belowground <i>Populus</i> -Associated Bacteria Toward a Core Stress Microbiome. <i>MSystems</i> , 2018, 3, .	1.7	89

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37	A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. <i>Green Chemistry</i> , 2016, 18, 5015-5024.	4.6	85
38	Multitrait genome-wide association analysis of <i>Populus trichocarpa</i> identifies key polymorphisms controlling morphological and physiological traits. <i>New Phytologist</i> , 2019, 223, 293-309.	3.5	85
39	Importance of changing CO ₂ , temperature, precipitation, and ozone on carbon and water cycles of an upland-oak forest: incorporating experimental results into model simulations. <i>Global Change Biology</i> , 2005, 11, 1402-1423.	4.2	83
40	Insights of biomass recalcitrance in natural <i>Populus trichocarpa</i> variants for biomass conversion. <i>Green Chemistry</i> , 2017, 19, 5467-5478.	4.6	82
41	Transgenic American chestnuts show enhanced blight resistance and transmit the trait to T1 progeny. <i>Plant Science</i> , 2014, 228, 88-97.	1.7	77
42	Carbohydrate and lignin are simultaneously solubilized from unpretreated switchgrass by microbial action at high temperature. <i>Energy and Environmental Science</i> , 2013, 6, 2186.	15.6	75
43	Photosynthetic reinvigoration of leaves following shoot decapitation and accelerated growth of coppice shoots. <i>Physiologia Plantarum</i> , 1989, 75, 157-165.	2.6	74
44	Interactions between drought and elevated CO ₂ on growth and gas exchange of seedlings of three deciduous tree species. <i>New Phytologist</i> , 1995, 129, 63-71.	3.5	74
45	<i>Clostridium thermocellum</i> ATCC27405 transcriptomic, metabolomic and proteomic profiles after ethanol stress. <i>BMC Genomics</i> , 2012, 13, 336.	1.2	73
46	Apoplast proteome reveals that extracellular matrix contributes to multistress response in poplar. <i>BMC Genomics</i> , 2010, 11, 674.	1.2	70
47	<i>Populus trichocarpa</i> and <i>Populus deltoides</i> Exhibit Different Metabolomic Responses to Colonization by the Symbiotic Fungus <i>Laccaria bicolor</i> . <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 546-556.	1.4	69
48	Stepping on the Gas to a Circular Economy: Accelerating Development of Carbon-Negative Chemical Production from Gas Fermentation. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2021, 12, 439-470.	3.3	69
49	Effects of root restriction on growth correlations, water relations and senescence of alder seedlings. <i>Physiologia Plantarum</i> , 1985, 64, 167-176.	2.6	66
50	Biosynthesis and emission of insect-induced methyl salicylate and methyl benzoate from rice. <i>Plant Physiology and Biochemistry</i> , 2010, 48, 279-287.	2.8	65
51	Water-stress tolerance of black and eastern cottonwood clones and four hybrid progeny. I. Growth, water relations, and gas exchange. <i>Canadian Journal of Forest Research</i> , 1994, 24, 364-371.	0.8	64
52	Systems Biology Analysis of <i>Zymomonas mobilis</i> ZM4 Ethanol Stress Responses. <i>PLoS ONE</i> , 2013, 8, e68886.	1.1	64
53	Knockdown of a laccase in <i>Populus deltoides</i> confers altered cell wall chemistry and increased sugar release. <i>Plant Biotechnology Journal</i> , 2016, 14, 2010-2020.	4.1	64
54	Poplar <i>PtabZIP1</i> enhances lateral root formation and biomass growth under drought stress. <i>Plant Journal</i> , 2017, 89, 692-705.	2.8	64

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55	Diel rewiring and positive selection of ancient plant proteins enabled evolution of CAM photosynthesis in Agave. <i>BMC Genomics</i> , 2018, 19, 588.	1.2	64
56	Osmotic potential of several hardwood species as affected by manipulation of throughfall precipitation in an upland oak forest during a dry year. <i>Tree Physiology</i> , 1998, 18, 291-298.	1.4	63
57	Temperature-dependent shade avoidance involves the receptor-like kinase <i>ERECTA</i> . <i>Plant Journal</i> , 2013, 73, 980-992.	2.8	63
58	Global transcriptome analysis of <i>Clostridium thermocellum</i> ATCC 27405 during growth on dilute acid pretreated <i>Populus</i> and switchgrass. <i>Biotechnology for Biofuels</i> , 2013, 6, 179.	6.2	62
59	Metabolic profiling reveals altered sugar and secondary metabolism in response to UGPase overexpression in <i>Populus</i> . <i>BMC Plant Biology</i> , 2014, 14, 265.	1.6	61
60	Structural changes of lignins in natural <i>Populus</i> variants during different pretreatments. <i>Bioresource Technology</i> , 2020, 295, 122240.	4.8	61
61	Growth, soluble carbohydrates, and aloin concentration of <i>Aloe vera</i> plants exposed to three irradiance levels. <i>Environmental and Experimental Botany</i> , 2000, 44, 133-139.	2.0	56
62	ALD1 Regulates Basal Immune Components and Early Inducible Defense Responses in <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 455-466.	1.4	56
63	A 5-Enolpyruvylshikimate 3-Phosphate Synthase Functions as a Transcriptional Repressor in <i>Populus</i> . <i>Plant Cell</i> , 2018, 30, 1645-1660.	3.1	56
64	Consolidated bioprocessing of <i>Populus</i> using <i>Clostridium</i> (<i>Ruminiclostridium</i>) <i>thermocellum</i> : a case study on the impact of lignin composition and structure. <i>Biotechnology for Biofuels</i> , 2016, 9, 31.	6.2	54
65	Nitrogen fertilization strategies in a short-rotation sycamore plantation. <i>Forest Ecology and Management</i> , 1994, 64, 13-24.	1.4	51
66	Phenotypic variation and quantitative trait locus identification for osmotic potential in an interspecific hybrid inbred F2 poplar pedigree grown in contrasting environments. <i>Tree Physiology</i> , 2006, 26, 595-604.	1.4	50
67	Genome-wide identification of lineage-specific genes in <i>Arabidopsis</i> , <i>Oryza</i> and <i>Populus</i> . <i>Genomics</i> , 2009, 93, 473-480.	1.3	50
68	The obscure events contributing to the evolution of an incipient sex chromosome in <i>Populus</i> : a retrospective working hypothesis. <i>Tree Genetics and Genomes</i> , 2012, 8, 559-571.	0.6	50
69	Characterization of <i>Clostridium thermocellum</i> strains with disrupted fermentation end-product pathways. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 725-734.	1.4	50
70	Phylogenetic Occurrence of the Phenylpropanoid Pathway and Lignin Biosynthesis in Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 704697.	1.7	49
71	Water-stress tolerance of black and eastern cottonwood clones and four hybrid progeny. II. Metabolites and inorganic ions that constitute osmotic adjustment. <i>Canadian Journal of Forest Research</i> , 1994, 24, 681-687.	0.8	48
72	A Carotenoid-Deficient Mutant in <i>Pantoea</i> sp. YR343, a Bacteria Isolated from the Rhizosphere of <i>Populus deltoides</i> , Is Defective in Root Colonization. <i>Frontiers in Microbiology</i> , 2016, 7, 491.	1.5	48

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73	Clonal and seasonal differences in leaf osmotic potential and organic solutes of five hybrid poplar clones grown under field conditions. <i>Tree Physiology</i> , 1998, 18, 645-652.	1.4	46
74	Stem respiration increases in CO ₂ -enriched sweetgum trees. <i>New Phytologist</i> , 2002, 155, 239-248.	3.5	46
75	Evaluation of the bioconversion of genetically modified switchgrass using simultaneous saccharification and fermentation and a consolidated bioprocessing approach. <i>Biotechnology for Biofuels</i> , 2012, 5, 81.	6.2	46
76	Genomic aspects of research involving polyploid plants. <i>Plant Cell, Tissue and Organ Culture</i> , 2011, 104, 387-397.	1.2	45
77	The nature of the progression of drought stress drives differential metabolomic responses in <i>Populus deltoides</i> . <i>Annals of Botany</i> , 2019, 124, 617-626.	1.4	45
78	Transgenic Poplar Designed for Biofuels. <i>Trends in Plant Science</i> , 2020, 25, 881-896.	4.3	45
79	Transcriptional Regulation of Drought Response in <i>Arabidopsis</i> and Woody Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 572137.	1.7	43
80	Stomatal control of water use efficiency in poplar clones and hybrids. <i>Canadian Journal of Botany</i> , 1984, 62, 1344-1351.	1.2	42
81	Poplar Genomics: State of the Science. <i>Critical Reviews in Plant Sciences</i> , 2009, 28, 285-308.	2.7	42
82	Mediation of plant-mycorrhizal interaction by a lectin receptor-like kinase. <i>Nature Plants</i> , 2019, 5, 676-680.	4.7	42
83	The role of sink demand in carbon partitioning and photosynthetic reinvigoration following shoot decapitation. <i>Physiologia Plantarum</i> , 1989, 75, 166-173.	2.6	41
84	Water relations of several hardwood species in response to throughfall manipulation in an upland oak forest during a wet year. <i>Tree Physiology</i> , 1998, 18, 299-305.	1.4	40
85	Two poplar methyl salicylate esterases display comparable biochemical properties but divergent expression patterns. <i>Phytochemistry</i> , 2009, 70, 32-39.	1.4	39
86	Water relations, photosynthetic capacity, and root/shoot partitioning of photosynthate as determinants of productivity in hybrid poplar. <i>Canadian Journal of Botany</i> , 1989, 67, 1689-1697.	1.2	37
87	Microfluidics and Metabolomics Reveal Symbiotic Bacterial-Fungal Interactions Between <i>Mortierella elongata</i> and <i>Burkholderia</i> Include Metabolite Exchange. <i>Frontiers in Microbiology</i> , 2019, 10, 2163.	1.5	37
88	Water-stress tolerance and late-season organic solute accumulation in hybrid poplar. <i>Canadian Journal of Botany</i> , 1989, 67, 1681-1688.	1.2	36
89	Biological responses of two soybean cultivars exposed to enhanced UVB radiation. <i>Environmental and Experimental Botany</i> , 1993, 33, 347-356.	2.0	36
90	Plant Hosts Modify Belowground Microbial Community Response to Extreme Drought. <i>MSystems</i> , 2020, 5, .	1.7	36

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91	Correlation between early root production, carbohydrate metabolism, and subsequent biomass production in hybrid poplar. <i>Canadian Journal of Botany</i> , 1989, 67, 2168-2174.	1.2	35
92	Influence of dormancy induction treatments on western hemlock seedlings. I. Seedling development and stock quality assessment. <i>Canadian Journal of Forest Research</i> , 1991, 21, 164-174.	0.8	35
93	Underground Azelaic Acid Conferred Resistance to <i>Pseudomonas syringae</i> in <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 86-94.	1.4	35
94	Carbohydrate accumulation and turgor maintenance in seedling shoots and roots of two boreal conifers subjected to water stress. <i>Canadian Journal of Botany</i> , 1991, 69, 2522-2528.	1.2	34
95	Transcriptional and Post-transcriptional Regulation of Lignin Biosynthesis Pathway Genes in <i>Populus</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 652.	1.7	34
96	Salicylate and catechol levels are maintained in nahG transgenic poplar. <i>Phytochemistry</i> , 2007, 68, 2043-2052.	1.4	33
97	Nitrogen and sulfur requirements for <i>Clostridium thermocellum</i> and <i>Caldicellulosiruptor bescii</i> on cellulosic substrates in minimal nutrient media. <i>Bioresource Technology</i> , 2013, 130, 125-135.	4.8	33
98	Interactions between drought and elevated CO ₂ on osmotic adjustment and solute concentrations of tree seedlings. <i>New Phytologist</i> , 1995, 131, 169-177.	3.5	32
99	Down-Regulation of KORRIGAN-Like Endo- β -1,4-Glucanase Genes Impacts Carbon Partitioning, Mycorrhizal Colonization and Biomass Production in <i>Populus</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1455.	1.7	32
100	Mathematical models of lignin biosynthesis. <i>Biotechnology for Biofuels</i> , 2018, 11, 34.	6.2	32
101	Pleiotropic and Epistatic Network-Based Discovery: Integrated Networks for Target Gene Discovery. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	32
102	Pinoresinol reductase 1 impacts lignin distribution during secondary cell wall biosynthesis in <i>Arabidopsis</i> . <i>Phytochemistry</i> , 2015, 112, 170-178.	1.4	31
103	Plant-Microbe Interactions: From Genes to Ecosystems Using <i>Populus</i> as a Model System. <i>Phytobiomes Journal</i> , 2021, 5, 29-38.	1.4	31
104	Integrated omics analyses reveal the details of metabolic adaptation of <i>Clostridium thermocellum</i> to lignocellulose-derived growth inhibitors released during the deconstruction of switchgrass. <i>Biotechnology for Biofuels</i> , 2017, 10, 14.	6.2	30
105	Study of traits and recalcitrance reduction of field-grown COMT down-regulated switchgrass. <i>Biotechnology for Biofuels</i> , 2017, 10, 12.	6.2	30
106	Role of water relations and photosynthesis in the release of buds from apical dominance and the early reinvigoration of decapitated poplars. <i>Physiologia Plantarum</i> , 1986, 68, 287-293.	2.6	29
107	Comparative analysis of GT14/GT14-like gene family in <i>Arabidopsis</i> , <i>Oryza</i> , <i>Populus</i> , <i>Sorghum</i> and <i>Vitis</i> . <i>Plant Science</i> , 2011, 181, 688-695.	1.7	29
108	Characterization of a novel, ubiquitous fungal endophyte from the rhizosphere and root endosphere of <i>Populus</i> trees. <i>Fungal Ecology</i> , 2017, 27, 78-86.	0.7	27

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109	Overexpression of a serine hydroxymethyltransferase increases biomass production and reduces recalcitrance in the bioenergy crop <i>Populus</i> . <i>Sustainable Energy and Fuels</i> , 2019, 3, 195-207.	2.5	27
110	Ectopic Defense Gene Expression Is Associated with Growth Defects in <i>Medicago truncatula</i> Lignin Pathway Mutants. <i>Plant Physiology</i> , 2019, 181, 63-84.	2.3	27
111	Development of a clostridia-based cell-free system for prototyping genetic parts and metabolic pathways. <i>Metabolic Engineering</i> , 2020, 62, 95-105.	3.6	27
112	Solute accumulation of chestnut oak and dogwood leaves in response to throughfall manipulation of an upland oak forest. <i>Tree Physiology</i> , 2002, 22, 251-260.	1.4	26
113	Overexpression of a Domain of Unknown Function 231-containing protein increases O-xylan acetylation and cellulose biosynthesis in <i>Populus</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 311.	6.2	26
114	Developmental changes in lignin composition are driven by both monolignol supply and laccase specificity. <i>Science Advances</i> , 2022, 8, eabm8145.	4.7	26
115	Functional Genomics of Drought Tolerance in Bioenergy Crops. <i>Critical Reviews in Plant Sciences</i> , 2014, 33, 205-224.	2.7	25
116	Improvement of cellulose catabolism in <i>Clostridium cellulolyticum</i> by sporulation abolishment and carbon alleviation. <i>Biotechnology for Biofuels</i> , 2014, 7, 25.	6.2	25
117	Genome-scale resources for <i>Thermoanaerobacterium saccharolyticum</i> . <i>BMC Systems Biology</i> , 2015, 9, 30.	3.0	24
118	Pentose sugars inhibit metabolism and increase expression of an AgrD-type cyclic pentapeptide in <i>Clostridium thermocellum</i> . <i>Scientific Reports</i> , 2017, 7, 43355.	1.6	24
119	Impacts of Soil Microbiome Variations on Root Colonization by Fungi and Bacteria and on the Metabolome of <i>Populus tremula</i> – <i>Populus alba</i> . <i>Phytobiomes Journal</i> , 2020, 4, 142-155.	1.4	24
120	Transgenic soybean overexpressing <i>GmSAMT1</i> exhibits resistance to multiple HG types of soybean cyst nematode <i>Heterodera glycines</i> . <i>Plant Biotechnology Journal</i> , 2016, 14, 2100-2109.	4.1	23
121	Phytobiome and Transcriptional Adaptation of <i>Populus deltoides</i> to Acute Progressive Drought and Cyclic Drought. <i>Phytobiomes Journal</i> , 2018, 2, 249-260.	1.4	23
122	Agronomic performance of <i>Populus deltoides</i> trees engineered for biofuel production. <i>Biotechnology for Biofuels</i> , 2017, 10, 253.	6.2	22
123	Industrial Robustness: Understanding the Mechanism of Tolerance for the <i>Populus</i> Hydrolysate-Tolerant Mutant Strain of <i>Clostridium thermocellum</i> . <i>PLoS ONE</i> , 2013, 8, e78829.	1.1	21
124	Comparative genomics can provide new insights into the evolutionary mechanisms and gene function in CAM plants. <i>Journal of Experimental Botany</i> , 2019, 70, 6539-6547.	2.4	21
125	Genome-Wide Association Study of Wood Anatomical and Morphological Traits in <i>Populus trichocarpa</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 545748.	1.7	21
126	Molecular and biochemical characterization of the jasmonic acid methyltransferase gene from black cottonwood (<i>Populus trichocarpa</i>). <i>Phytochemistry</i> , 2013, 94, 74-81.	1.4	20

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127	Genome Anchored QTLs for Biomass Productivity in Hybrid Populus Grown under Contrasting Environments. <i>PLoS ONE</i> , 2013, 8, e54468.	1.1	20
128	Understanding the influences of different pretreatments on recalcitrance of Populus natural variants. <i>Bioresource Technology</i> , 2018, 265, 75-81.	4.8	20
129	Multi-Phenotype Association Decomposition: Unraveling Complex Gene-Phenotype Relationships. <i>Frontiers in Genetics</i> , 2019, 10, 417.	1.1	20
130	Population-level approaches reveal novel aspects of lignin biosynthesis, content, composition and structure. <i>Current Opinion in Biotechnology</i> , 2019, 56, 250-257.	3.3	20
131	Advances and perspectives in discovery and functional analysis of small secreted proteins in plants. <i>Horticulture Research</i> , 2021, 8, 130.	2.9	20
132	Selective herbivory by an invasive cyprinid, the rudd <i>Scardinius erythrophthalmus</i> . <i>Freshwater Biology</i> , 2014, 59, 2315-2327.	1.2	19
133	Perspectives on the basic and applied aspects of crassulacean acid metabolism (CAM) research. <i>Plant Science</i> , 2018, 274, 394-401.	1.7	18
134	Combining loss of function of FOLYLPOLYGLUTAMATE SYNTHETASE1 and CAFFEYOYL-COA 3-O-METHYLTRANSFERASE1 for lignin reduction and improved saccharification efficiency in Arabidopsis thaliana. <i>Biotechnology for Biofuels</i> , 2019, 12, 108.	6.2	18
135	Scavenging organic nitrogen and remodelling lipid metabolism are key survival strategies adopted by the endophytic fungi, <i>Serendipita vermifera</i> and <i>Serendipita bescii</i> to alleviate nitrogen and phosphorous starvation in vitro. <i>Environmental Microbiology Reports</i> , 2019, 11, 548-557.	1.0	18
136	ALD1 accumulation in Arabidopsis epidermal plastids confers local and non-autonomous disease resistance. <i>Journal of Experimental Botany</i> , 2021, 72, 2710-2726.	2.4	18
137	Multiplex knockout of trichome-regulating MYB duplicates in hybrid poplar using a single gRNA. <i>Plant Physiology</i> , 2022, 189, 516-526.	2.3	18
138	Assessment of Populus wood chemistry following the introduction of a Bt toxin gene. <i>Tree Physiology</i> , 2006, 26, 557-564.	1.4	17
139	A comparative multidimensional LC-MS proteomic analysis reveals mechanisms for furan aldehyde detoxification in <i>Thermoanaerobacter pseudethanolicus</i> 39E. <i>Biotechnology for Biofuels</i> , 2014, 7, 165.	6.2	17
140	Quantitative proteome profile of water deficit stress responses in eastern cottonwood (<i>Populus</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2	1.1	17
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