

Timothy J Tschaplinski

List of Publications by Year in descending order

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Version: 2024-02-01

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	Ozonized biochar filtrate effects on the growth of <i>Pseudomonas putida</i> and cyanobacteria <i>Synechococcus elongatus</i> PCC 7942. <i>Bioresources and Bioprocessing</i> , 2022, 9, .	2.0	0
2	Diversity and conservation of plant small secreted proteins associated with arbuscular mycorrhizal symbiosis. <i>Horticulture Research</i> , 2022, 9, .	2.9	1
3	Expanding the Biological Role of Lipo-Chitoooligosaccharides and Chitoooligosaccharides in <i>Laccaria bicolor</i> Growth and Development. <i>Frontiers in Fungal Biology</i> , 2022, 3, .	0.9	4
4	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
5	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
6	Developmental changes in lignin composition are driven by both monolignol supply and laccase specificity. <i>Science Advances</i> , 2022, 8, eabm8145.	4.7	26
7	Proteomic and metabolic disturbances in lignin-modified <i>Brachypodium distachyon</i> . <i>Plant Cell</i> , 2022, 34, 3339-3363.	3.1	14
8	Relationships between <i>Sphaerulina musiva</i> Infection and the <i>Populus</i> Microbiome and Metabolome. <i>MSystems</i> , 2022, 7, .	1.7	2
9	ALD1 accumulation in <i>Arabidopsis</i> epidermal plastids confers local and non-autonomous disease resistance. <i>Journal of Experimental Botany</i> , 2021, 72, 2710-2726.	2.4	18
10	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
11	Advances and perspectives in discovery and functional analysis of small secreted proteins in plants. <i>Horticulture Research</i> , 2021, 8, 130.	2.9	20
12	Phylogenetic Occurrence of the Phenylpropanoid Pathway and Lignin Biosynthesis in Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 704697.	1.7	49
13	Towards engineering ectomycorrhization into switchgrass bioenergy crops via a lectin receptor-like kinase. <i>Plant Biotechnology Journal</i> , 2021, 19, 2454-2468.	4.1	14
14	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
15	Biological Parts for Plant Biodesign to Enhance Land-Based Carbon Dioxide Removal. <i>Biodesign Research</i> , 2021, 2021, .	0.8	5
16	Structural changes of lignins in natural <i>Populus</i> variants during different pretreatments. <i>Bioresource Technology</i> , 2020, 295, 122240.	4.8	61
17	Overexpression of a <i>Prefoldin Î²</i> subunit gene reduces biomass recalcitrance in the bioenergy crop <i>Populus</i> . <i>Plant Biotechnology Journal</i> , 2020, 18, 859-871.	4.1	17
18	Identification of functional single nucleotide polymorphism of <i>Populus trichocarpa</i> PtrEPSPâ€TF and determination of its transcriptional effect. <i>Plant Direct</i> , 2020, 4, e00178.	0.8	4

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19	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
20	Isolation, Characterization, and Pathogenicity of Two <i>Pseudomonas syringae</i> Pathovars from <i>Populus trichocarpa</i> Seeds. <i>Microorganisms</i> , 2020, 8, 1137.	1.6	9
21	<i>Arabidopsis</i> C-terminal binding protein <i>ANGUSTIFOLIA</i> modulates transcriptional co-regulation of <i>MYB46</i> and <i>WRKY33</i> . <i>New Phytologist</i> , 2020, 228, 1627-1639.	3.5	17
22	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
23	Transgenic Poplar Designed for Biofuels. <i>Trends in Plant Science</i> , 2020, 25, 881-896.	4.3	45
24	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
25	Host plant genetic control of associated fungal and insect species in a <i>Populus</i> hybrid cross. <i>Ecology and Evolution</i> , 2020, 10, 5119-5134.	0.8	4
26	Plant Hosts Modify Belowground Microbial Community Response to Extreme Drought. <i>MSystems</i> , 2020, 5, .	1.7	36
27	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
28	Transcriptional Regulation of Drought Response in <i>Arabidopsis</i> and Woody Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 572137.	1.7	43
29	Biosystems Design to Accelerate C ₃ -to-CAM Progression. <i>Biodesign Research</i> , 2020, 2020, .	0.8	16
30	Plant Biosystems Design Research Roadmap 1.0. <i>Biodesign Research</i> , 2020, 2020, .	0.8	16
31	Rex in <i>Caldicellulosiruptor bescii</i> : Novel regulon members and its effect on the production of ethanol and overflow metabolites. <i>MicrobiologyOpen</i> , 2019, 8, e00639.	1.2	15
32	Mediation of plant-mycorrhizal interaction by a lectin receptor-like kinase. <i>Nature Plants</i> , 2019, 5, 676-680.	4.7	42
33	Natural variability and antioxidant properties of commercially cultivated switchgrass extractives. <i>Industrial Crops and Products</i> , 2019, 138, 111474.	2.5	11
34	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
35	Data Integration in Poplar: Omics Layers and Integration Strategies. <i>Frontiers in Genetics</i> , 2019, 10, 874.	1.1	15
36	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

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37	Horizontal transfer of a pathway for coumarate catabolism unexpectedly inhibits purine nucleotide biosynthesis. <i>Molecular Microbiology</i> , 2019, 112, 1784-1797.	1.2	5
38	Finding New Cell Wall Regulatory Genes in <i>Populus trichocarpa</i> Using Multiple Lines of Evidence. <i>Frontiers in Plant Science</i> , 2019, 10, 1249.	1.7	13
39	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
40	Multi-Phenotype Association Decomposition: Unraveling Complex Gene-Phenotype Relationships. <i>Frontiers in Genetics</i> , 2019, 10, 417.	1.1	20
41	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
42	Combining loss of function of FOLYLPOLYGLUTAMATE SYNTHETASE1 and CAFFEOYL-COA 3-O-METHYLTRANSFERASE1 for lignin reduction and improved saccharification efficiency in <i>Arabidopsis thaliana</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 108.	6.2	18
43	4-Coumarate 3-hydroxylase in the lignin biosynthesis pathway is a cytosolic ascorbate peroxidase. <i>Nature Communications</i> , 2019, 10, 1994.	5.8	171
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	Mathematical models of lignin biosynthesis. <i>Biotechnology for Biofuels</i> , 2018, 11, 34.	6.2	32
52	<i>Clostridium thermocellum</i> LL1210 pH homeostasis mechanisms informed by transcriptomics and metabolomics. <i>Biotechnology for Biofuels</i> , 2018, 11, 98.	6.2	16
53	A physical catalyst for the electrolysis of nitrogen to ammonia. <i>Science Advances</i> , 2018, 4, e1700336.	4.7	264
54	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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55	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
56	A dynamic model of lignin biosynthesis in <i>Brachypodium distachyon</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 253.	6.2	11
57	Regulation of Lignin Biosynthesis and Its Role in Growth-Defense Tradeoffs. <i>Frontiers in Plant Science</i> , 2018, 9, 1427.	1.7	231
58	Understanding the influences of different pretreatments on recalcitrance of <i>Populus</i> natural variants. <i>Bioresource Technology</i> , 2018, 265, 75-81.	4.8	20
59	Perspectives on the basic and applied aspects of crassulacean acid metabolism (CAM) research. <i>Plant Science</i> , 2018, 274, 394-401.	1.7	18
60	Pleiotropic and Epistatic Network-Based Discovery: Integrated Networks for Target Gene Discovery. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	32
61	Genome-wide association studies and expression-based quantitative trait loci analyses reveal roles of HCT2 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
62	Diel rewiring and positive selection of ancient plant proteins enabled evolution of CAM photosynthesis in <i>Agave</i> . <i>BMC Genomics</i> , 2018, 19, 588.	1.2	64
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	Quantitative proteome profile of water deficit stress responses in eastern cottonwood (<i>Populus</i>) Tj ETQq0 0 0 rgBT/Overlock, 10 Tf 50 3	1.1	17
65	Modification of plant cell wall chemistry impacts metabolome and microbiome composition in <i>Populus</i> PdkOR1 RNAi plants. <i>Plant and Soil</i> , 2018, 429, 349-361.	1.8	16
66	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
67	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
68	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
69	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
70	³¹ P-NMR Characterization of Tricin and Its Structurally Similar Flavonoids. <i>ChemistrySelect</i> , 2017, 2, 3557-3561.	0.7	14
71	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
72	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

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73	Correlating laser-induced breakdown spectroscopy with neutron activation analysis to determine the elemental concentration in the ionome of the <i>Populus trichocarpa</i> leaf. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 138, 46-53.	1.5	11
74	Study of traits and recalcitrance reduction of field-grown COMT down-regulated switchgrass. <i>Biotechnology for Biofuels</i> , 2017, 10, 12.	6.2	30
75	Poplar <i>PtabZIP1</i> like enhances lateral root formation and biomass growth under drought stress. <i>Plant Journal</i> , 2017, 89, 692-705.	2.8	64
76	An In-Depth Understanding of Biomass Recalcitrance Using Natural Poplar Variants as the Feedstock. <i>ChemSusChem</i> , 2017, 10, 139-150.	3.6	106
77	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
78	Agronomic performance of <i>Populus deltoides</i> trees engineered for biofuel production. <i>Biotechnology for Biofuels</i> , 2017, 10, 253.	6.2	22
79	Targeted redox and energy cofactor metabolomics in <i>Clostridium thermocellum</i> and <i>Thermoanaerobacterium saccharolyticum</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 270.	6.2	5
80	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
81	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
82	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
83	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
84	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
85	Transcript, protein and metabolite temporal dynamics in the CAM plant <i>Agave</i> . <i>Nature Plants</i> , 2016, 2, 16178.	4.7	158
86	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
87	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
88	Scaling nitrogen and carbon interactions: what are the consequences of biological buffering?. <i>Ecology and Evolution</i> , 2015, 5, 2839-2850.	0.8	4
89	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
90	Genome-scale resources for <i>Thermoanaerobacterium saccharolyticum</i> . <i>BMC Systems Biology</i> , 2015, 9, 30.	3.0	24

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91	Xylan hydrolysis in <i>Populus trichocarpa</i> — <i>P. deltoides</i> and model substrates during hydrothermal pretreatment. <i>Bioresource Technology</i> , 2015, 179, 202-210.	4.8	16
92	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
93	Computational Ranking of Yerba Mate Small Molecules Based on Their Predicted Contribution to Antibacterial Activity against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2015, 10, e0123925.	1.1	10
94	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
95	Selective herbivory by an invasive cyprinid, the rudd <i>Scardinius erythrophthalmus</i> . <i>Freshwater Biology</i> , 2014, 59, 2315-2327.	1.2	19
96	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
97	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
98	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
99	Engineering crassulacean acid metabolism to improve water-use efficiency. <i>Trends in Plant Science</i> , 2014, 19, 327-338.	4.3	206
100	Lignin Valorization: Improving Lignin Processing in the Biorefinery. <i>Science</i> , 2014, 344, 1246843.	6.0	2,994
101	Functional Genomics of Drought Tolerance in Bioenergy Crops. <i>Critical Reviews in Plant Sciences</i> , 2014, 33, 205-224.	2.7	25
102	The genome of <i>Eucalyptus grandis</i> . <i>Nature</i> , 2014, 510, 356-362.	13.7	725
103	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
104	<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
105	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
106	Temperature-dependent shade avoidance involves the receptor-like kinase <i>ERECTA</i> . <i>Plant Journal</i> , 2013, 73, 980-992.	2.8	63
107	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
108	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

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109	The fate of lignin during hydrothermal pretreatment. <i>Biotechnology for Biofuels</i> , 2013, 6, 110.	6.2	191
110	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
111	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
112	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
113	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
114	Evolutionary analyses of non- <i>ε</i> -family genes in plants. <i>Plant Journal</i> , 2013, 73, 788-797.	2.8	7
115	Genome Anchored QTLs for Biomass Productivity in Hybrid <i>Populus</i> Grown under Contrasting Environments. <i>PLoS ONE</i> , 2013, 8, e54468.	1.1	20
116	Systems Biology Analysis of <i>Zymomonas mobilis</i> ZM4 Ethanol Stress Responses. <i>PLoS ONE</i> , 2013, 8, e68886.	1.1	64
117	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
118	<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
119	<i>Clostridium thermocellum</i> ATCC27405 transcriptomic, metabolomic and proteomic profiles after ethanol stress. <i>BMC Genomics</i> , 2012, 13, 336.	1.2	73
120	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
121	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
122	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
123	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
124	Closing the carbon balance for fermentation by <i>Clostridium thermocellum</i> (ATCC 27405). <i>Bioresource Technology</i> , 2012, 103, 293-299.	4.8	90
125	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
126	Genomic aspects of research involving polyploid plants. <i>Plant Cell, Tissue and Organ Culture</i> , 2011, 104, 387-397.	1.2	45

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127	Discovery and annotation of small proteins using genomics, proteomics, and computational approaches. <i>Genome Research</i> , 2011, 21, 634-641.	2.4	105
128	Apoplast proteome reveals that extracellular matrix contributes to multistress response in poplar. <i>BMC Genomics</i> , 2010, 11, 674.	1.2	70
129	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
130	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
131	Transcriptomic and metabolomic profiling of <i>Zymomonas mobilis</i> during aerobic and anaerobic fermentations. <i>BMC Genomics</i> , 2009, 10, 34.	1.2	138
132	Two poplar methyl salicylate esterases display comparable biochemical properties but divergent expression patterns. <i>Phytochemistry</i> , 2009, 70, 32-39.	1.4	39
133	Priming in Systemic Plant Immunity. <i>Science</i> , 2009, 324, 89-91.	6.0	749
134	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
135	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
136	Poplar Genomics: State of the Science. <i>Critical Reviews in Plant Sciences</i> , 2009, 28, 285-308.	2.7	42
137	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
138	Salicylate and catechol levels are maintained in nahG transgenic poplar. <i>Phytochemistry</i> , 2007, 68, 2043-2052.	1.4	33
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