

Improved saccharification and ethanol yield from field-grown sorghum in cinnamoyl-CoA reductase

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Mutation of the Inducible <i>ARABIDOPSIS THALIANA</i> CYTOCHROME P450 REDUCTASE2 Alters Lignin Composition and Improves Saccharification. <i>Plant Physiology</i> , 2014, 166, 1956-1971.	2.3	63
2	Tailoring lignin biosynthesis for efficient and sustainable biofuel production. <i>Plant Biotechnology Journal</i> , 2014, 12, 1154-1162.	4.1	21
3	Plant biotechnology for lignocellulosic biofuel production. <i>Plant Biotechnology Journal</i> , 2014, 12, 1174-1192.	4.1	96
4	Influence of <i>Populus</i> Genotype on Gene Expression by the Wood Decay Fungus <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 5828-5835.	1.4	28
5	Altered lignin biosynthesis using biotechnology to improve lignocellulosic biofuel feedstocks. <i>Plant Biotechnology Journal</i> , 2014, 12, 1163-1173.	4.1	96
6	The role of the secondary cell wall in plant resistance to pathogens. <i>Frontiers in Plant Science</i> , 2014, 5, 358.	1.7	455
7	Next Generation Plant Biotechnology. <i>Sustainable Development and Biodiversity</i> , 2014, , 77-100.	1.4	3
8	Bioethanol from poplar: a commercially viable alternative to fossil fuel in the European Union. <i>Biotechnology for Biofuels</i> , 2014, 7, 113.	6.2	30
10	Sweet sorghum ideotypes: genetic improvement of the biofuel syndrome. <i>Food and Energy Security</i> , 2015, 4, 159-177.	2.0	39
11	Roles of lignin biosynthesis and regulatory genes in plant development. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 902-912.	4.1	160
12	Analysis of a Modern Hybrid and an Ancient Sugarcane Implicates a Complex Interplay of Factors in Affecting Recalcitrance to Cellulosic Ethanol Production. <i>PLoS ONE</i> , 2015, 10, e0134964.	1.1	12
13	A metabolomic assessment of NAC154 transcription factor overexpression in field grown poplar stem wood. <i>Phytochemistry</i> , 2015, 115, 112-120.	1.4	12
14	Microbial Factories. , 2015, , .		14
15	Introduction of chemically labile substructures into <i>Arabidopsis</i> lignin through the use of LigD, the Cl ⁻ dehydrogenase from <i>Sphingobium</i> sp. strain <i>SYK</i> . <i>Plant Biotechnology Journal</i> , 2015, 13, 821-832.	4.1	45
16	Molecular control of wood formation in trees. <i>Journal of Experimental Botany</i> , 2015, 66, 4119-4131.	2.4	148
17	Effects of Delignification on Crystalline Cellulose in Lignocellulose Biomass Characterized by Vibrational Sum Frequency Generation Spectroscopy and X-ray Diffraction. <i>Bioenergy Research</i> , 2015, 8, 1750-1758.	2.2	33
18	Biomass recalcitrance: a multi-scale, multi-factor, and conversion-specific property: Fig. 1.. <i>Journal of Experimental Botany</i> , 2015, 66, 4109-4118.	2.4	197
19	Using a combined hydrolysis factor to optimize high titer ethanol production from sulfite-pretreated poplar without detoxification. <i>Bioresource Technology</i> , 2015, 186, 223-231.	4.8	38

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20	High Titer Ethanol and Lignosulfonate Production from SPORL Pretreated Poplar at Pilot Scale. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	9
21	Wood development: Growth through knowledge. <i>Nature Plants</i> , 2015, 1, .	4.7	5
22	Downregulation of GAUT12 in <i>Populus deltoides</i> by RNA silencing results in reduced recalcitrance, increased growth and reduced xylan and pectin in a woody biofuel feedstock. <i>Biotechnology for Biofuels</i> , 2015, 8, 41.	6.2	133
23	Manipulation of Guaiacyl and Syringyl Monomer Biosynthesis in an <i>Arabidopsis</i> Cinnamyl Alcohol Dehydrogenase Mutant Results in Atypical Lignin Biosynthesis and Modified Cell Wall Structure. <i>Plant Cell</i> , 2015, 27, 2195-2209.	3.1	136
24	How cell wall complexity influences saccharification efficiency in <i>Miscanthus sinensis</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 4351-4365.	2.4	82
25	CRISPRing into the woods. <i>GM Crops and Food</i> , 2015, 6, 206-215.	2.0	36
26	Genetic manipulation of lignocellulosic biomass for bioenergy. <i>Current Opinion in Chemical Biology</i> , 2015, 29, 32-39.	2.8	57
27	Functional characterization of <i>CCR</i> in birch (<i>Betula platyphylla</i> – <i>Betula</i>) Tj ETQq1 1 0.784314 rgBT /Ove 283-296.	2.6	27
28	Ploidy Level Affects Important Biomass Traits of Novel Shrub Willow (<i>Salix</i>) Hybrids. <i>Bioenergy Research</i> , 2015, 8, 259-269.	2.2	47
29	Performance of 16s rDNA Primer Pairs in the Study of Rhizosphere and Endosphere Bacterial Microbiomes in Metabarcoding Studies. <i>Frontiers in Microbiology</i> , 2016, 7, 650.	1.5	237
30	Improving total saccharification yield of <i>Arabidopsis</i> plants by vessel-specific complementation of caffeoyl shikimate esterase (cse) mutants. <i>Biotechnology for Biofuels</i> , 2016, 9, 139.	6.2	63
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34	Photodegradation alleviates the lignin bottleneck for carbon turnover in terrestrial ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4392-4397.	3.3	146
35	Overexpression of <i>GA20â€œOXIDASE</i> 1 impacts plant height, biomass allocation and saccharification efficiency in maize. <i>Plant Biotechnology Journal</i> , 2016, 14, 997-1007.	4.1	59
36	A cell wall-bound anionic peroxidase, PtrPO21, is involved in lignin polymerization in <i>Populus trichocarpa</i> . <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	0.6	24
37	New developments in engineering plant metabolic pathways. <i>Current Opinion in Biotechnology</i> , 2016, 42, 126-132.	3.3	83

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38	Transition of primary to secondary cell wall synthesis. <i>Science Bulletin</i> , 2016, 61, 838-846.	4.3	28
39	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
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47	Biomass traits and candidate genes for bioenergy revealed through association genetics in coppiced European <i>Populus nigra</i> (L.). <i>Biotechnology for Biofuels</i> , 2016, 9, 195.	6.2	36
48	Genetic modification of plant cell walls to enhance biomass yield and biofuel production in bioenergy crops. <i>Biotechnology Advances</i> , 2016, 34, 997-1017.	6.0	175
49	Suberin as an Extra Barrier to Grass Digestibility: a Closer Look to Sugarcane Forage. <i>Tropical Plant Biology</i> , 2016, 9, 96-108.	1.0	4
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51	Molecular Breeding for Improved Second Generation Bioenergy Crops. <i>Trends in Plant Science</i> , 2016, 21, 43-54.	4.3	78
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53	Lignin engineering in field-grown poplar trees affects the endosphere bacterial microbiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2312-2317.	3.3	99
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58	Down-regulation of hydroxycinnamoyl CoA: shikimate hydroxycinnamoyl transferase, cinnamoyl CoA reductase, and cinnamyl alcohol dehydrogenase leads to lignin reduction in rice (<i>Oryza sativa</i> L. ssp.) <i>Tj ETQq1 1 0.784314 rgt / Over</i>	0.9	67
59	Structural variability and niche differentiation in the rhizosphere and endosphere bacterial microbiome of field-grown poplar trees. <i>Microbiome</i> , 2017, 5, 25.	4.9	406
60	Unravelling the impact of lignin on cell wall mechanics: a comprehensive study on young poplar trees downregulated for <i>CINNAMYL ALCOHOL DEHYDROGENASE</i> (<i>CAD</i>). <i>Plant Journal</i> , 2017, 91, 480-490.	2.8	68
61	The <i>Arabidopsis</i> <i>NST3/SND1</i> promoter is active in secondary woody tissue in poplar. <i>Journal of Wood Science</i> , 2017, 63, 396-400.	0.9	5
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66	Silencing <i>CAFFEYOYL SHIKIMATE ESTERASE</i> Affects Lignification and Improves Saccharification in Poplar. <i>Plant Physiology</i> , 2017, 175, 1040-1057.	2.3	90
67	<i>Caldicellulosiruptor saccharolyticus</i> transcriptomes reveal consequences of chemical pretreatment and genetic modification of lignocellulose. <i>Microbial Biotechnology</i> , 2017, 10, 1546-1557.	2.0	11
68	Hydrochar enhances growth of poplar for bioenergy while marginally contributing to direct soil carbon sequestration. <i>GCB Bioenergy</i> , 2017, 9, 1618-1626.	2.5	31
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70	Real-time monitoring of <i>PtaHMGB</i> activity in poplar transactivation assays. <i>Plant Methods</i> , 2017, 13, 50.	1.9	9
71	Impact of lignin polymer backbone esters on ionic liquid pretreatment of poplar. <i>Biotechnology for Biofuels</i> , 2017, 10, 101.	6.2	48
72	Impact of <i>RAV1</i> -engineering on poplar biomass production: a short-rotation coppice field trial. <i>Biotechnology for Biofuels</i> , 2017, 10, 110.	6.2	11
73	In pursuit of Sustainable Development Goal (SDG) number 7: Will biofuels be reliable?. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 927-937.	8.2	103
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77	Advances in Genetic Manipulation of Lignocellulose to Reduce Biomass Recalcitrance and Enhance Biofuel Production in Bioenergy Crops. <i>Journal of Plant Biochemistry & Physiology</i> , 2017, 05, .	0.5	2
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84	The effect of altered lignin composition on mechanical properties of CINNAMYL ALCOHOL DEHYDROGENASE (CAD) deficient poplars. <i>Planta</i> , 2018, 247, 887-897.	1.6	25
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109	Lignin-Enzyme Interactions in the Hydrolysis of Lignocellulosic Biomass. <i>Trends in Biotechnology</i> , 2019, 37, 518-531.	4.9	183
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113	Discovering Biomass Structural Determinants Defining the Properties of Plant-Derived Renewable Carbon Fiber. <i>IScience</i> , 2020, 23, 101405.	1.9	12
114	Redesigning plant cell walls for the biomass-based bioeconomy. <i>Journal of Biological Chemistry</i> , 2020, 295, 15144-15157.	1.6	48
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116	Identification of enzymatic genes with the potential to reduce biomass recalcitrance through lignin manipulation in <i>Arabidopsis</i> . <i>Biotechnology for Biofuels</i> , 2020, 13, 97.	6.2	19
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124	Targeted plant improvement through genome editing: from laboratory to field. <i>Plant Cell Reports</i> , 2021, 40, 935-951.	2.8	47
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133	PbCSE1 promotes lignification during stone cell development in pear (<i>Pyrus bretschneideri</i>) fruit. <i>Scientific Reports</i> , 2021, 11, 9450.	1.6	10
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147	Linkage Mapping of Stem Saccharification Digestibility in Rice. <i>PLoS ONE</i> , 2016, 11, e0159117.	1.1	6
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