

Monolignol ferulate conjugates are naturally incorporated

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Tricinâ€Lignins: occurrence and quantitation of tricin in relation to phylogeny. <i>Plant Journal</i> , 2016, 88, 1046-1057.	2.8	118
2	Formaldehyde stabilization facilitates lignin monomer production during biomass depolymerization. <i>Science</i> , 2016, 354, 329-333.	6.0	944
3	Expression atlas and comparative coexpression network analyses reveal important genes involved in the formation of lignified cell wall in <i>Brachypodium distachyon</i> . <i>New Phytologist</i> , 2017, 215, 1009-1025.	3.5	108
4	Hydroxystilbenes Are Monomers in Palm Fruit Endocarp Lignins. <i>Plant Physiology</i> , 2017, 174, 2072-2082.	2.3	90
5	Disrupting Flavone Synthase II Alters Lignin and Improves Biomass Digestibility. <i>Plant Physiology</i> , 2017, 174, 972-985.	2.3	89
6	Characterization and Elimination of Undesirable Protein Residues in Plant Cell Wall Materials for Enhancing Lignin Analysis by Solution-State Nuclear Magnetic Resonance Spectroscopy. <i>Biomacromolecules</i> , 2017, 18, 4184-4195.	2.6	94
7	Bacterial catabolism of ligninâ€derived aromatics: New findings in a recent decade: Update on bacterial lignin catabolism. <i>Environmental Microbiology Reports</i> , 2017, 9, 679-705.	1.0	218
8	Catalytic Hydrogenolysis of Lignins into Phenolic Compounds over Carbon Nanotube Supported Molybdenum Oxide. <i>ACS Catalysis</i> , 2017, 7, 7535-7542.	5.5	198
9	Highly Decorated Lignins in Leaf Tissues of the Canary Island Date Palm <i>Phoenix canariensis</i> . <i>Plant Physiology</i> , 2017, 175, 1058-1067.	2.3	34
10	Chemical Pulping Advantages of Zipâ€Lignin Hybrid Poplar. <i>ChemSusChem</i> , 2017, 10, 3565-3573.	3.6	45
11	Impact of lignin polymer backbone esters on ionic liquid pretreatment of poplar. <i>Biotechnology for Biofuels</i> , 2017, 10, 101.	6.2	48
12	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
13	Proteomics Coupled with Metabolite and Cell Wall Profiling Reveal Metabolic Processes of a Developing Rice Stem Internode. <i>Frontiers in Plant Science</i> , 2017, 8, 1134.	1.7	18
14	Selective Fragmentation of Biorefinery Corncob Lignin into <i>p</i> -Hydroxycinnamic Esters with a Supported Zinc Molybdate Catalyst. <i>ChemSusChem</i> , 2018, 11, 2114-2123.	3.6	73
15	Plant cell wall sugars: sweeteners for a bioâ€based economy. <i>Physiologia Plantarum</i> , 2018, 164, 27-44.	2.6	14
16	Engineered Lignin in Poplar Biomass Facilitates Cu-Catalyzed Alkaline-Oxidative Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2932-2941.	3.2	31
17	Suppression of a single <i>BAHD</i> gene in <i>Setaria viridis</i> causes large, stable decreases in cell wall feruloylation and increases biomass digestibility. <i>New Phytologist</i> , 2018, 218, 81-93.	3.5	91
18	Reductive Cleavage Method for Quantitation of Monolignols and Lowâ€Abundance Monolignol Conjugates. <i>ChemSusChem</i> , 2018, 11, 1600-1605.	3.6	45

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19	Biotechnology for bioenergy dedicated trees: meeting future energy demands. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2018, 73, 15-32.	0.6	10
20	Maturation-related changes of carrot lignins. Journal of the Science of Food and Agriculture, 2018, 98, 1016-1023.	1.7	3
21	Variability in Lignin Composition and Structure in Cell Walls of Different Parts of Maca (Acrocomia aculeata) Palm Fruit. Journal of Agricultural and Food Chemistry, 2018, 66, 138-153.	2.4	70
22	Overexpression of a rice BAHD acyltransferase gene in switchgrass (Panicum virgatum L.) enhances saccharification. BMC Biotechnology, 2018, 18, 54.	1.7	38
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25	Variation in energy sorghum hybrid TX08001 biomass composition and lignin chemistry during development under irrigated and non-irrigated field conditions. PLoS ONE, 2018, 13, e0195863.	1.1	24
26	Radically different lignin composition in Posidonia species may link to differences in organic carbon sequestration capacity. Organic Geochemistry, 2018, 124, 247-256.	0.9	31
27	Response of cell-wall composition and RNA-seq transcriptome to methyl-jasmonate in Brachypodium distachyon callus. Planta, 2018, 248, 1213-1229.	1.6	7
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33	Variation in lignocellulose characteristics of 30 Indonesian sorghum (Sorghum bicolor) accessions. Industrial Crops and Products, 2019, 142, 111840.	2.5	15
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35	Genomic resources for energy cane breeding in the post genomics era. Computational and Structural Biotechnology Journal, 2019, 17, 1404-1414.	1.9	38
36	Introducing curcumin biosynthesis in Arabidopsis enhances lignocellulosic biomass processing. Nature Plants, 2019, 5, 225-237.	4.7	50

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37	Low Lignin Mutants and Reduction of Lignin Content in Grasses for Increased Utilisation of Lignocellulose. <i>Agronomy</i> , 2019, 9, 256.	1.3	16
38	Supercritical methanol depolymerization and hydrodeoxygenation of lignin and biomass over reduced copper porous metal oxides. <i>Green Chemistry</i> , 2019, 21, 2988-3005.	4.6	63
39	Silencing of a BAHD acyltransferase in sugarcane increases biomass digestibility. <i>Biotechnology for Biofuels</i> , 2019, 12, 111.	6.2	28
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41	Hydroxystilbene Glucosides Are Incorporated into Norway Spruce Bark Lignin. <i>Plant Physiology</i> , 2019, 180, 1310-1321.	2.3	43
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44	Lignin structure and its engineering. <i>Current Opinion in Biotechnology</i> , 2019, 56, 240-249.	3.3	533
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49	<sc>CAD</sc>1 and <sc>CCR</sc>2 protein complex formation in monolignol biosynthesis in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2019, 222, 244-260.	3.5	43
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55	Tricin and triclin lignins in Medicago versus in monocots. <i>New Phytologist</i> , 2020, 228, 11-14.	3.5	8

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59	Improved analysis of arabinoxylan-bound hydroxycinnamate conjugates in grass cell walls. <i>Biotechnology for Biofuels</i> , 2020, 13, 202.	6.2	14
60	Copper-mediated Conversion of Complex Ethers to Esters: Enabling Biopolymer Depolymerisation under Mild Conditions. <i>Chemistry - A European Journal</i> , 2020, 26, 12397-12402.	1.7	8
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80	Degradation of ester linkages in rice straw components by <i>Sphingobium</i> species recovered from the sea bottom using a non- ϵ -secretory tannase family β -glucuronidase hydrolase. <i>Environmental Microbiology</i> , 2021, 23, 4151-4167.	1.8	0
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82	Precursor biosynthesis regulation of lignin, suberin and cutin. <i>Protoplasma</i> , 2021, 258, 1171-1178.	1.0	8
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119	CRISPR/Cas9 suppression of <i>OsAT10</i> , a rice BAHD acyltransferase, reduces p-coumaric acid incorporation into arabinoxylan without increasing saccharification. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	4
120	The temptation from homogeneous linear catechyl lignin. <i>Trends in Chemistry</i> , 2022, 4, 948-961.	4.4	21

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122	Lignocellulose molecular assembly and deconstruction properties of lignin-altered rice mutants. <i>Plant Physiology</i> , 2023, 191, 70-86.	2.3	3
123	Evolution of <i>p-coumaroylated</i> lignin in eudicots provides new tools for cell wall engineering. <i>New Phytologist</i> , 2023, 237, 251-264.	3.5	10
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131	Modification of plant cell walls with hydroxycinnamic acids by BAHD acyltransferases. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	9
133	Revealing structural features of lignin macromolecules from microwave-assisted carboxylic acid-based deep eutectic solvent pretreatment. <i>Industrial Crops and Products</i> , 2023, 194, 116342.	2.5	7
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