List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Exploration and structure-based engineering of alkenal double bond reductases catalyzing the Cα Cβ double bond reduction of coniferaldehyde. New Biotechnology, 2022, 68, 57-67.	4.4	1
2	Rerouting of the lignin biosynthetic pathway by inhibition of cytosolic shikimate recycling in transgenic hybrid aspen. Plant Journal, 2022, 110, 358-376.	5.7	10
3	Fiber Cell-Specific Expression of the VP16-Fused Ethylene Response Factor 41 Protein Increases Biomass Yield and Alters Lignin Composition. Frontiers in Plant Science, 2021, 12, 654655.	3.6	8
4	Improved chemical pulping and saccharification of a natural mulberry mutant deficient in cinnamyl alcohol dehydrogenase. Holzforschung, 2021, .	1.9	3
5	Importance of Lignin Coniferaldehyde Residues for Plant Properties and Sustainable Uses. ChemSusChem, 2020, 13, 4400-4408.	6.8	14
6	Artificially lignified cell wall catalyzed by peroxidase selectively localized on a network of microfibrils from cultured cells. Planta, 2020, 251, 104.	3.2	6
7	Identification of enzymatic genes with the potential to reduce biomass recalcitrance through lignin manipulation in Arabidopsis. Biotechnology for Biofuels, 2020, 13, 97.	6.2	19
8	Determining the Genetic Regulation and Coordination of Lignification in Stem Tissues of <i>Arabidopsis</i> Using Semiquantitative Raman Microspectroscopy. ACS Sustainable Chemistry and Engineering, 2020, 8, 4900-4909.	6.7	16
9	Cellular and Genetic Regulation of Coniferaldehyde Incorporation in Lignin of Herbaceous and Woody Plants by Quantitative Wiesner Staining. Frontiers in Plant Science, 2020, 11, 109.	3.6	25
10	Distinct deposition of ester-linked ferulic and <i>p</i> -coumaric acids to the cell wall of developing sorghum internodes. Plant Biotechnology, 2020, 37, 15-23.	1.0	9
11	A Century-Old Mystery Unveiled: Sekizaisou is a Natural Lignin Mutant. Plant Physiology, 2020, 182, 1821-1828.	4.8	24
12	Simultaneous manipulation of lignin structure and secondary cell wall formation in transgenic poplar. Journal of Wood Science, 2020, 66, .	1.9	3
13	Advances in microbial lignin degradation and its applications. Current Opinion in Biotechnology, 2019, 56, 179-186.	6.6	132
14	Expression analysis of cellulose synthases that comprise the Type II complex in hybrid aspen. Plant Biology, 2019, 21, 361-370.	3.8	1
15	Application of microalgae hydrolysate as a fermentation medium for microbial production of 2-pyrone 4,6-dicarboxylic acid. Journal of Bioscience and Bioengineering, 2018, 125, 717-722.	2.2	15
16	Change in lignin structure, but not in lignin content, in transgenic poplar overexpressing the rice master regulator of secondary cell wall biosynthesis. Physiologia Plantarum, 2018, 163, 170-182.	5.2	19
17	<i>In vitro</i> regeneration and <i>Agrobacterium</i> -mediated transformation of male- sterile marigold (<i>Tagetes erecta</i> L.). Plant Biotechnology, 2017, 34, 125-129.	1.0	2
18	Beta-ketoadipic acid and muconolactone production from a lignin-related aromatic compound through the protocatechuate 3,4-metabolic pathway. Journal of Bioscience and Bioengineering, 2016, 121, 652-658.	2.2	62

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19	Expression and functional analyses of a putative phenylcoumaran benzylic ether reductase in Arabidopsis thaliana. Plant Cell Reports, 2016, 35, 513-526.	5.6	16
20	Introduction of chemically labile substructures into <i>Arabidopsis</i> lignin through the use of LigD, the Cαâ€dehydrogenase from <i>Sphingobium</i> sp. strain <scp>SYK</scp> â€6. Plant Biotechnology Journal, 2015, 13, 821-832.	8.3	45
21	Membrane-Associated Glucose-Methanol-Choline Oxidoreductase Family Enzymes PhcC and PhcD Are Essential for Enantioselective Catabolism of Dehydrodiconiferyl Alcohol. Applied and Environmental Microbiology, 2015, 81, 8022-8036.	3.1	20
22	Multiple Classes of Transcription Factors Regulate the Expression of VASCULAR-RELATED NAC-DOMAIN7, a Master Switch of Xylem Vessel Differentiation. Plant and Cell Physiology, 2015, 56, 242-254.	3.1	149
23	Current Status and Future Prospects of Wood and Tree Biotechnology. Mokuzai Gakkai Shi, 2015, 61, 200-206.	0.2	0
24	Production Technology for Bioenergy Crops and Trees. , 2014, , 51-106.		4
25	Successful expression of a novel bacterial gene for pinoresinol reductase and its effect on lignan biosynthesis in transgenic Arabidopsis thaliana. Applied Microbiology and Biotechnology, 2014, 98, 8165-8177.	3.6	10
26	Characterization of the catabolic pathway for a phenylcoumaran-type lignin-derived biaryl in Sphingobium sp. strain SYK-6. Biodegradation, 2014, 25, 735-745.	3.0	25
27	Application of fungal laccase fused with cellulose-binding domain to develop low-lignin rice plants. Journal of Bioscience and Bioengineering, 2013, 116, 616-619.	2.2	14
28	Discovery of pinoresinol reductase genes in sphingomonads. Enzyme and Microbial Technology, 2013, 52, 38-43.	3.2	34
29	Transcription profiling identifies candidate genes for secondary cell wall formation and hydroxycinnamoyl-arabinoxylan biosynthesis in the rice internode. Plant Biotechnology, 2013, 30, 433-446.	1.0	2
30	Thermoplastic Polyesters of 2-Pyrone-4,6-Dicarboxylic Acid (PDC) Obtained from a Metabolic Intermediate of Lignin . Journal of Fiber Science and Technology, 2013, 69, 39-47.	0.0	8
31	High-level fructooligosaccharide production in transgenic tobacco plants. Plant Biotechnology, 2013, 30, 77-81.	1.0	3
32	Enhancement of secondary xylem cell proliferation by Arabidopsis cyclin D overexpression in tobacco plants. Plant Cell Reports, 2012, 31, 1573-1580.	5.6	7
33	Development of a highly sensitive assay for enzymeâ€mediated reductive degradation of polychlorinated dibenzoâ€ <i>p</i> â€dioxin. Environmental Toxicology and Chemistry, 2012, 31, 1072-1075.	4.3	3
34	Convenient synthesis of chiral lignin model compounds via optical resolution: four stereoisomers of guaiacylglycerol-β-guaiacyl ether and both enantiomers of 3-hydroxy-1-(4-hydroxy-3-methoxyphenyl)-2-(2-methoxyphenoxy)-propan-1-one (erone). Tetrahedron Letters. 2012, 53, 842-845.	1.4	20
35	<i>DWARF50</i> (<i>D50</i>), a rice (<i>Oryza sativa</i> L.) gene encoding inositol polyphosphate 5â€phosphatase, is required for proper development of intercalary meristem. Plant, Cell and Environment, 2012, 35, 2031-2044.	5.7	21
36	Curing Kinetics of Lignin-based Epoxy Resins. Journal of Fiber Science and Technology, 2012, 68, 73-78.	0.0	3

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37	Genetic engineering of woody plants: current and future targets in a stressful environment. Physiologia Plantarum, 2011, 142, 105-117.	5.2	57
38	Novel enzymatic activity of cell free extract from thermophilic Geobacillus sp. UZO 3 catalyzes reductive cleavage of diaryl ether bonds of 2,7-dichlorodibenzo-p-dioxin. Chemosphere, 2011, 83, 868-872.	8.2	7
39	Isolation of rice dwarf mutants with ectopic deposition of phenolic components including lignin in parenchyma cell walls of internodes. Plant Cell Reports, 2011, 30, 2195-2205.	5.6	4
40	Characterization of the Third Glutathione <i>S</i> -Transferase Gene Involved in Enantioselective Cleavage of the β-Aryl Ether by <i>Sphingobium</i> sp. Strain SYK-6. Bioscience, Biotechnology and Biochemistry, 2011, 75, 2404-2407.	1.3	36
41	Overexpression of a fungal laccase gene induces nondehiscent anthers and morphological changes in flowers of transgenic tobacco. Journal of Wood Science, 2010, 56, 460-469.	1.9	6
42	Isolation of a novel cell wall architecture mutant of rice with defective Arabidopsis COBL4 ortholog BC1 required for regulated deposition of secondary cell wall components. Planta, 2010, 232, 257-270.	3.2	40
43	The carbohydrate-binding module (CBM)-like sequence is crucial for rice CWA1/BC1 function in proper assembly of secondary cell wall materials. Plant Signaling and Behavior, 2010, 5, 1433-1436.	2.4	15
44	Tenacious Epoxy Adhesives Prepared from Lignin-derived Stable Metabolic Intermediate. Journal of Fiber Science and Technology, 2009, 65, 359-362.	0.0	30
45	Immunohistochemical localization of enzymes that catalyze the long sequential pathways of lignin biosynthesis during differentiation of secondary xylem tissues of hybrid aspen (Populus sieboldii x) Tj ETQq1 1	0.78 %.3 14 r	gBÐ/Overlock
46	Methoxyl groups of lignin are essential carbon donors in C1 metabolism of <i>Sphingobium </i> sp. SYKâ€6. Journal of Basic Microbiology, 2009, 49, S98-102.	3.3	17
47	Microbial conversion of glucose to a novel chemical building block, 2-pyrone-4,6-dicarboxylic acid. Metabolic Engineering, 2009, 11, 213-220.	7.0	16
48	Polyesters of 2-Pyrone-4,6-dicarboxylic Acid (PDC) as Bio-based Plastics Exhibiting Strong Adhering Properties. Polymer Journal, 2009, 41, 297-302.	2.7	41
49	Isolation and Molecular Characterization of Single-Chain Fv Antibodies Raised against Pollen Allergens from Japanese Cedar (<i>Cryptomeria japonica</i> D. Don). Bioscience, Biotechnology and Biochemistry, 2009, 73, 2399-2407.	1.3	1
50	Conductive Cements Based Polyesters of PDC(2-Pyrone-4,6-Dicarboxylic Acid) Obtained from a Metabolic Intermediate of Lignin. Kobunshi Ronbunshu, 2009, 66, 141-146.	0.2	6
51	Quantitative Determination of Magnolol in the Callus from Petioles and Mature Seeds of Magnolia obovata. Mokuzai Gakkai Shi, 2009, 55, 163-169.	0.2	2
52	Isolation and functional analysis of the CjNdly gene, a homolog in Cryptomeria japonica of FLORICAULA/LEAFY genes. Tree Physiology, 2008, 28, 21-28.	3.1	24
53	Laser Raman detection of an electrogenerated intermediate during anodic synthesis of dihydrobenzofurans via formal [3+2] cycloaddition. Electrochemistry Communications, 2007, 9, 1331-1336.	4.7	10
54	Hybrid aspen with a transgene for fungal manganese peroxidase is a potential contributor to phytoremediation of the environment contaminated with bisphenol A. Journal of Wood Science, 2007, 53, 541-544.	1.9	18

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55	3-Deoxy-d-arabino-heptulosonate 7-phosphate synthase is regulated for the accumulation of polysaccharide-linked hydroxycinnamoyl esters in rice (Oryza sativa L.) internode cell walls. Plant Cell Reports, 2006, 25, 676-688.	5.6	7
56	Transgenic tobacco expressing fungal laccase promotes the detoxification of environmental pollutants. Applied Microbiology and Biotechnology, 2005, 67, 138-142.	3.6	76
57	Heat stable ssDNA/RNA-binding activity of a wheat cold shock domain protein. FEBS Letters, 2005, 579, 4887-4891.	2.8	34
58	Generation of transgenic hybrid aspen that express a bacterial gene for feruloyl-CoA hydratase/lyase (FerB), which is involved in lignin degradation in Sphingomonas paucimobilis SYK-6. Journal of Wood Science, 2004, 50, 275-280.	1.9	4
59	Molecular cloning of the promoter region of the glyceraldehyde-3-phosphate dehydrogenase gene that contributes to the construction of a new transformation system in Coriolus versicolor. Mycoscience, 2004, 45, 131-136.	0.8	9
60	Overproduction of recombinant laccase using a homologous expression system in Coriolus versicolor. Applied Microbiology and Biotechnology, 2004, 66, 194-199.	3.6	25
61	Down-regulation of an anionic peroxidase in transgenic aspen and its effect on lignin characteristics. Journal of Plant Research, 2003, 116, 175-182.	2.4	116
62	Detection and characterization of a novel extracellular fungal enzyme that catalyzes the specific and hydrolytic cleavage of lignin guaiacylglycerol beta-aryl ether linkages. FEBS Journal, 2003, 270, 2353-2362.	0.2	42
63	Lignins and lignocellulosics: a better control of synthesis for new and improved uses. Trends in Plant Science, 2003, 8, 576-581.	8.8	294
64	Isolation and Functional Analysis of the Promoter Sequence of the Cry j 1 Gene, Which Encodes a Major Allergenic Protein in the Pollen of Japanese Cedar (Cryptomeria japonica). Plant Biotechnology, 2003, 20, 241-245.	1.0	4
65	Improvement in pulping and bleaching properties of xylem from transgenic tobacco plants. Journal of the Science of Food and Agriculture, 2002, 82, 1216-1223.	3.5	12
66	Expression of a gene for Mn-peroxidase from Coriolus versicolor in transgenic tobacco generates potential tools for phytoremediation. Applied Microbiology and Biotechnology, 2002, 59, 246-251.	3.6	47
67	Immunohistochemical localization of enzymes related to lignin biosynthesis in the primary xylem of hybrid aspen. Journal of Wood Science, 2002, 48, 457-466.	1.9	2
68	Specific degradation ofβ-aryl ether linkage in synthetic lignin (dehydrogenative polymerizate) by bacterial enzymes ofSphingomonas paucimobilis SYK-6 produced in recombinantEscherichia coli. Journal of Wood Science, 2002, 48, 429-433.	1.9	16
69	Tetrahydrofolate-dependent vanillate and syringateO-demethylation links tightly to one-carbon metabolic pathway associated with amino acid synthesis and DNA methylation in the lignin metabolism ofSphingomonas paucimobilis SYK-6. Journal of Wood Science, 2002, 48, 434-439.	1.9	12
70	Close association between the enzymes involved in the lignin metabolic pathway ofSphingomonas paucimobilis SYK-6: interaction ofO-demethylase (LigX) and ring fission dioxygenase (LigZ). Journal of Wood Science, 2002, 48, 250-252.	1.9	3
71	Formation of a Tree having a Low Lignin Content. Journal of Plant Research, 2001, 114, 517-523.	2.4	5
72	Analysis of Transgenic Poplar in Which the Expression of Peroxidase Gene is Suppressed. Progress in Biotechnology, 2001, , 195-204.	0.2	4

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73	Specific Accumulation of Polysaccharide-Linked Hydroxycinnamoyl Esters in the Cell Walls of Irregularly Shaped and Collapsed Internode Parenchyma Cells of the Dwarf Rice Mutant Fukei 71. Plant and Cell Physiology, 2000, 41, 776-784.	3.1	13
74	Structural Characterization of Modified Lignin in Transgenic Tobacco Plants in Which the Activity of 4-Coumarate:Coenzyme A Ligase Is Depressed. Plant Physiology, 1997, 114, 871-879.	4.8	115
75	Immunological characterization of transgenic tobacco plants with a chimeric gene for 4-coumarate:CoA ligase that have altered lignin in their xylem tissue. Plant Science, 1997, 128, 109-118.	3.6	10
76	Isolation and Analysis of Cinnamic Acid 4-Hydroxylase Homologous Genes from a Hybrid Aspen, <i>Populus kitakamiensis</i> . Bioscience, Biotechnology and Biochemistry, 1996, 60, 1586-1597.	1.3	35
77	Alterations in the Biosynthesis of Lignin in Transgenic Plants with Chimeric Genes for 4-Coumarate: Coenzyme A Ligase. Plant and Cell Physiology, 1996, 37, 957-965.	3.1	137
78	Agrobacterium-mediated transformation of poplar using a disarmed binary vector and the overexpression of a specific member of a family of poplar peroxidase genes in transgenic poplar cell. Plant Science, 1994, 103, 231-239.	3.6	32
79	Nucleotide Sequence for the Genomic DNA Encoding an Anionic Peroxidase Gene from a Hybrid Poplar, <i>Populus kitakamiensis</i> . Bioscience, Biotechnology and Biochemistry, 1993, 57, 131-133.	1.3	13