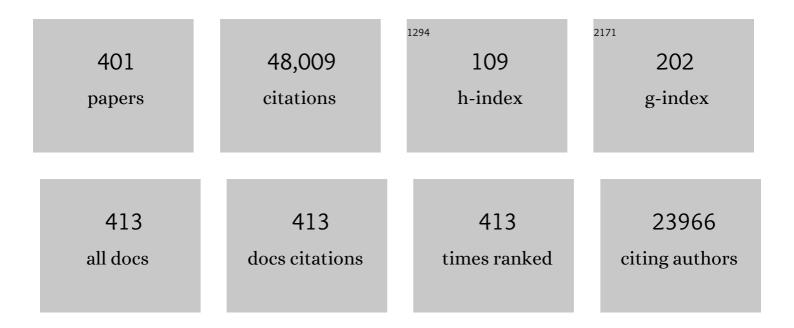
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	LIGNINBIOSYNTHESIS. Annual Review of Plant Biology, 2003, 54, 519-546.	8.6	3,709
2	Lignin Biosynthesis and Structure. Plant Physiology, 2010, 153, 895-905.	2.3	1,990
3	Paving the Way for Lignin Valorisation: Recent Advances in Bioengineering, Biorefining and Catalysis. Angewandte Chemie - International Edition, 2016, 55, 8164-8215.	7.2	1,576
4	Lignins: Natural polymers from oxidative coupling of 4-hydroxyphenyl- propanoids. Phytochemistry Reviews, 2004, 3, 29-60.	3.1	1,282
5	Formaldehyde stabilization facilitates lignin monomer production during biomass depolymerization. Science, 2016, 354, 329-333.	6.0	944
6	Repression of lignin biosynthesis promotes cellulose accumulation and growth in transgenic trees. Nature Biotechnology, 1999, 17, 808-812.	9.4	684
7	Structural Characterization of Wheat Straw Lignin as Revealed by Analytical Pyrolysis, 2D-NMR, and Reductive Cleavage Methods. Journal of Agricultural and Food Chemistry, 2012, 60, 5922-5935.	2.4	650
8	Lignin engineering. Current Opinion in Plant Biology, 2008, 11, 278-285.	3.5	603
9	Pyrolysis-GC-MS characterization of forage materials. Journal of Agricultural and Food Chemistry, 1991, 39, 1426-1437.	2.4	576
10	Solution-state 2D NMR of ball-milled plant cell wall gels in DMSO-d6/pyridine-d5. Organic and Biomolecular Chemistry, 2010, 8, 576-591.	1.5	565
11	Whole plant cell wall characterization using solution-state 2D NMR. Nature Protocols, 2012, 7, 1579-1589.	5.5	563
12	Chemoselective Metal-Free Aerobic Alcohol Oxidation in Lignin. Journal of the American Chemical Society, 2013, 135, 6415-6418.	6.6	547
13	Lignin structure and its engineering. Current Opinion in Biotechnology, 2019, 56, 240-249.	3.3	533
14	Hydroxycinnamates in lignification. Phytochemistry Reviews, 2010, 9, 65-83.	3.1	468
15	Lignin biosynthesis and its integration into metabolism. Current Opinion in Biotechnology, 2019, 56, 230-239.	3.3	440
16	Multi-scale visualization and characterization of lignocellulosic plant cell wall deconstruction during thermochemical pretreatment. Energy and Environmental Science, 2011, 4, 973.	15.6	437
17	Caffeoyl Shikimate Esterase (CSE) Is an Enzyme in the Lignin Biosynthetic Pathway in <i>Arabidopsis</i> . Science, 2013, 341, 1103-1106.	6.0	432
18	Guidelines for performing lignin-first biorefining. Energy and Environmental Science, 2021, 14, 262-292.	15.6	416

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19	Pathway of p-Coumaric Acid Incorporation into Maize Lignin As Revealed by NMR. Journal of the American Chemical Society, 1994, 116, 9448-9456.	6.6	403
20	Lignin-ferulate cross-links in grasses: active incorporation of ferulate polysaccharide esters into ryegrass lignins. Carbohydrate Research, 1995, 275, 167-178.	1.1	386
21	Discovery of Lignin in Seaweed Reveals Convergent Evolution of Cell-Wall Architecture. Current Biology, 2009, 19, 169-175.	1.8	371
22	Combinatorial modification of multiple lignin traits in trees through multigene cotransformation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4939-4944.	3.3	370
23	Molecular Phenotyping of the pal1 and pal2 Mutants of Arabidopsis thaliana Reveals Far-Reaching Consequences on Phenylpropanoid, Amino Acid, and Carbohydrate Metabolism. Plant Cell, 2004, 16, 2749-2771.	3.1	367
24	Identification and synthesis of new ferulic acid dehydrodimers present in grass cell walls. Journal of the Chemical Society Perkin Transactions 1, 1994, , 3485.	0.9	353
25	Downregulation of Cinnamoyl-Coenzyme A Reductase in Poplar: Multiple-Level Phenotyping Reveals Effects on Cell Wall Polymer Metabolism and Structure. Plant Cell, 2007, 19, 3669-3691.	3.1	352
26	The Effects on Lignin Structure of Overexpression of Ferulate 5-Hydroxylase in Hybrid Poplar1 Â. Plant Physiology, 2009, 150, 621-635.	2.3	350
27	Metabolic engineering of novel lignin in biomass crops. New Phytologist, 2012, 196, 978-1000.	3.5	338
28	Monolignol Ferulate Transferase Introduces Chemically Labile Linkages into the Lignin Backbone. Science, 2014, 344, 90-93.	6.0	337
29	Designer lignins: harnessing the plasticity of lignification. Current Opinion in Biotechnology, 2016, 37, 190-200.	3.3	333
30	Non-degradative dissolution and acetylation of ball-milled plant cell walls: high-resolution solution-state NMR. Plant Journal, 2003, 35, 535-544.	2.8	330
31	Ptr-miR397a is a negative regulator of laccase genes affecting lignin content in <i>Populus trichocarpa</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10848-10853.	3.3	329
32	A polymer of caffeyl alcohol in plant seeds. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1772-1777.	3.3	314
33	Disruption of Mediator rescues the stunted growth of a lignin-deficient Arabidopsis mutant. Nature, 2014, 509, 376-380.	13.7	313
34	The gel-forming polysaccharide of psyllium husk (Plantago ovata Forsk). Carbohydrate Research, 2004, 339, 2009-2017.	1.1	305
35	Diferulates as structural components in soluble and insoluble cereal dietary fibre. Journal of the Science of Food and Agriculture, 2001, 81, 653-660.	1.7	285
36	Tricin, a Flavonoid Monomer in Monocot Lignification Â. Plant Physiology, 2015, 167, 1284-1295.	2.3	283

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37	Derivatization Followed by Reductive Cleavage (DFRC Method), a New Method for Lignin Analysis:Â Protocol for Analysis of DFRC Monomers. Journal of Agricultural and Food Chemistry, 1997, 45, 2590-2592.	2.4	278
38	A comparison of the insoluble residues produced by the Klason lignin and acid detergent lignin procedures. Journal of the Science of Food and Agriculture, 1994, 65, 51-58.	1.7	271
39	Cell Wall Esterified Phenolic Dimers: Identification and Quantification by Reverse Phase High Performance Liquid Chromatography and Diode Array Detection. Phytochemical Analysis, 1996, 7, 305-312.	1.2	268
40	Solution-state 2D NMR of Ball-milled Plant Cell Wall Gels in DMSO-d 6. Bioenergy Research, 2008, 1, 56-66.	2.2	266
41	Lignin Composition and Structure in Young versus Adult <i>Eucalyptus globulus</i> Plants. Plant Physiology, 2011, 155, 667-682.	2.3	263
42	Cell wall cross-linking by ferulates and diferulates in grasses. Journal of the Science of Food and Agriculture, 1999, 79, 403-407.	1.7	259
43	Strong decrease in lignin content without significant alteration of plant development is induced by simultaneous down-regulation of cinnamoyl CoA reductase (CCR) and cinnamyl alcohol dehydrogenase (CAD) in tobacco plants. Plant Journal, 2001, 28, 257-270.	2.8	252
44	Peroxidase-dependent cross-linking reactions of p-hydroxycinnamates in plant cell walls. Phytochemistry Reviews, 2004, 3, 79-96.	3.1	239
45	Comparative Transcriptome and Secretome Analysis of Wood Decay Fungi <i>Postia placenta</i> and <i>Phanerochaete chrysosporium</i> . Applied and Environmental Microbiology, 2010, 76, 3599-3610.	1.4	237
46	Modifications in Lignin and Accumulation of Phenolic Glucosides in Poplar Xylem upon Down-regulation of Caffeoyl-Coenzyme A O-Methyltransferase, an Enzyme Involved in Lignin Biosynthesis. Journal of Biological Chemistry, 2000, 275, 36899-36909.	1.6	235
47	Evidence for cleavage of lignin by a brown rot basidiomycete. Environmental Microbiology, 2008, 10, 1844-1849.	1.8	232
48	Diferulate cross-links impede the enzymatic degradation of non-lignified maize walls. Journal of the Science of Food and Agriculture, 1998, 77, 193-200.	1.7	231
49	Differences in the chemical structure of the lignins from sugarcane bagasse and straw. Biomass and Bioenergy, 2015, 81, 322-338.	2.9	227
50	Ferulate cross-linking in cell walls isolated from maize cell suspensions. Phytochemistry, 1995, 40, 1077-1082.	1.4	226
51	The charophycean green algae provide insights into the early origins of plant cell walls. Plant Journal, 2011, 68, 201-211.	2.8	226
52	Genetic and molecular basis of grass cell-wall degradability. I.ÂLignin–cell wall matrix interactions. Comptes Rendus - Biologies, 2004, 327, 455-465.	0.1	223
53	Unexpected variation in lignin. Current Opinion in Plant Biology, 1999, 2, 145-152.	3.5	213
54	Lignin monomer production integrated into the Î <sup>3</sup> -valerolactone sugar platform. Energy and Environmental Science, 2015, 8, 2657-2663.	15.6	212

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55	Advances in modifying lignin for enhanced biofuel production. Current Opinion in Plant Biology, 2010, 13, 312-319.	3.5	211
56	Effects of Coumarate 3-Hydroxylase Down-regulation on Lignin Structure. Journal of Biological Chemistry, 2006, 281, 8843-8853.	1.6	209
57	Laccases Direct Lignification in the Discrete Secondary Cell Wall Domains of Protoxylem. Plant Physiology, 2014, 166, 798-807.	2.3	203
58	Ligninâ€based barrier restricts pathogens to the infection site and confers resistance in plants. EMBO Journal, 2019, 38, e101948.	3.5	198
59	Cross-Linking of Maize Walls by Ferulate Dimerization and Incorporation into Lignin. Journal of Agricultural and Food Chemistry, 2000, 48, 6106-6113.	2.4	196
60	Elucidation of new structures in lignins of CAD- and COMT-deficient plants by NMR. Phytochemistry, 2001, 57, 993-1003.	1.4	195
61	Improved saccharification and ethanol yield from field-grown transgenic poplar deficient in cinnamoyl-CoA reductase. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 845-850.	3.3	186
62	An "ideal lignin―facilitates full biomass utilization. Science Advances, 2018, 4, eaau2968.	4.7	184
63	Lignin Monomers from beyond the Canonical Monolignol Biosynthetic Pathway: Another Brick in the Wall. ACS Sustainable Chemistry and Engineering, 2020, 8, 4997-5012.	3.2	184
64	Detection and Determination ofp-Coumaroylated Units in Lignins. Journal of Agricultural and Food Chemistry, 1999, 47, 1988-1992.	2.4	181
65	A new Arabidopsis thaliana mutant deficient in the expression of O-methyltransferase impacts lignins and sinapoyl esters. Plant Molecular Biology, 2003, 51, 973-989.	2.0	181
66	Profiling of Oligolignols Reveals Monolignol Coupling Conditions in Lignifying Poplar Xylem. Plant Physiology, 2004, 136, 3537-3549.	2.3	180
67	DFRC Method for Lignin Analysis. 1. New Method for β-Aryl Ether Cleavage: Lignin Model Studies. Journal of Agricultural and Food Chemistry, 1997, 45, 4655-4660.	2.4	177
68	<i>&gt;p</i> oumaroylâ€ <scp>C</scp> o <scp>A</scp> :monolignol transferase ( <scp>PMT</scp> ) acts specifically in the lignin biosynthetic pathway in <i><scp>B</scp>rachypodium distachyon</i> . Plant Journal, 2014, 77, 713-726.	2.8	175
69	Structural Characterization of the Lignin in the Cortex and Pith of Elephant Grass ( <i>Pennisetum) Tj ETQq1 1 C</i>	.784314 rg 2.4	gBT_/Qverloc
70	Ferulate Cross-Links Limit the Enzymatic Degradation of Synthetically Lignified Primary Walls of Maize. Journal of Agricultural and Food Chemistry, 1998, 46, 2609-2614.	2.4	171
71	Next-generation ammonia pretreatment enhances cellulosic biofuel production. Energy and Environmental Science, 2016, 9, 1215-1223.	15.6	169
72	Suppression of 4-Coumarate-CoA Ligase in the Coniferous Gymnosperm <i>Pinus radiata</i> Â Â. Plant Physiology, 2009, 149, 370-383.	2.3	166

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73	Mass Spectrometry-Based Sequencing of Lignin Oligomers. Plant Physiology, 2010, 153, 1464-1478.	2.3	166
74	Facile large-scale synthesis of coniferyl, sinapyl, and p-coumaryl alcohol. Journal of Agricultural and Food Chemistry, 1992, 40, 1108-1110.	2.4	163
75	Characterization of nonderivatized plant cell walls using highâ€resolution solutionâ€state NMR spectroscopy. Magnetic Resonance in Chemistry, 2008, 46, 508-517.	1.1	162
76	NMR of Lignins. , 2010, , 137-243.		162
77	Improving wood properties for wood utilization through multi-omics integration in lignin biosynthesis. Nature Communications, 2018, 9, 1579.	5.8	162
78	Molecular phenotyping of ligninâ€modified tobacco reveals associated changes in cellâ€wall metabolism, primary metabolism, stress metabolism and photorespiration. Plant Journal, 2007, 52, 263-285.	2.8	161
79	Coexistence but Independent Biosynthesis of Catechyl and Guaiacyl/Syringyl Lignin Polymers in Seed Coats. Plant Cell, 2013, 25, 2587-2600.	3.1	161
80	Wege zur Verwertung von Lignin: Fortschritte in der Biotechnik, der Bioraffination und der Katalyse. Angewandte Chemie, 2016, 128, 8296-8354.	1.6	159
81	Genetic and molecular basis of grass cell wall biosynthesis and degradability. II. Lessons from brown-midrib mutants. Comptes Rendus - Biologies, 2004, 327, 847-860.	0.1	148
82	Exploring lignification in conifers by silencing hydroxycinnamoyl-CoA:shikimate hydroxycinnamoyltransferase in <i>Pinus radiata</i> . Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11856-11861.	3.3	147
83	Monolignol ferulate conjugates are naturally incorporated into plant lignins. Science Advances, 2016, 2, e1600393.	4.7	147
84	Effects of <i>PHENYLALANINE AMMONIA LYASE</i> ( <i>PAL</i> ) knockdown on cell wall composition, biomass digestibility, and biotic and abiotic stress responses in <i>Brachypodium</i> . Journal of Experimental Botany, 2015, 66, 4317-4335.	2.4	146
85	NMR analysis of lignins in CAD-deficient plants. Part 1. Incorporation of hydroxycinnamaldehydes and hydroxybenzaldehydes into lignins. Organic and Biomolecular Chemistry, 2003, 1, 268-281.	1.5	145
86	Genetical metabolomics of flavonoid biosynthesis inPopulus: a case study. Plant Journal, 2006, 47, 224-237.	2.8	140
87	Mass Spectrometry-Based Fragmentation as an Identification Tool in Lignomics. Analytical Chemistry, 2010, 82, 8095-8105.	3.2	140
88	Identification of Grass-specific Enzyme That Acylates Monolignols with p-Coumarate. Journal of Biological Chemistry, 2012, 287, 8347-8355.	1.6	140
89	Biosynthesis and incorporation of sideâ€chainâ€truncated lignin monomers to reduce lignin polymerization and enhance saccharification. Plant Biotechnology Journal, 2012, 10, 609-620.	4.1	140
90	Variations in the Cell Wall Composition of Maizebrown midribMutants. Journal of Agricultural and Food Chemistry, 2003, 51, 1313-1321.	2.4	138

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91	Convergent Evolution of Syringyl Lignin Biosynthesis via Distinct Pathways in the Lycophyte <i>Selaginella</i> and Flowering Plants Â. Plant Cell, 2010, 22, 1033-1045.	3.1	138
92	p-coumaroylated syringyl units in maize lignin: Implications for β-ether cleavage by thioacidolysis. Phytochemistry, 1996, 43, 1189-1194.	1.4	137
93	<i>CCoAOMT</i> suppression modifies lignin composition in <i>Pinus radiata</i> . Plant Journal, 2011, 67, 119-129.	2.8	136
94	Manipulation of Guaiacyl and Syringyl Monomer Biosynthesis in an Arabidopsis Cinnamyl Alcohol Dehydrogenase Mutant Results in Atypical Lignin Biosynthesis and Modified Cell Wall Structure. Plant Cell, 2015, 27, 2195-2209.	3.1	136
95	Are Lignins Optically Active?. Journal of Agricultural and Food Chemistry, 1999, 47, 2991-2996.	2.4	132
96	An uncondensed lignin depolymerized in the solid state and isolated from lignocellulosic biomass: a mechanistic study. Green Chemistry, 2018, 20, 4224-4235.	4.6	132
97	The DFRC Method for Lignin Analysis. 2. Monomers from Isolated Lignins. Journal of Agricultural and Food Chemistry, 1998, 46, 547-552.	2.4	131
98	Multidimensional NMR analysis reveals truncated lignin structures in wood decayed by the brown rot basidiomycete <i>Postia placenta</i> . Environmental Microbiology, 2011, 13, 1091-1100.	1.8	131
99	An Unusual Lignin from Kenaf. Journal of Natural Products, 1996, 59, 341-342.	1.5	130
100	Structural Characterization of Lignin Isolated from Coconut ( <i>Cocos nucifera</i> ) Coir Fibers. Journal of Agricultural and Food Chemistry, 2013, 61, 2434-2445.	2.4	130
101	Understanding the impact of ionic liquid pretreatment on eucalyptus. Biofuels, 2010, 1, 33-46.	1.4	129
102	Related Arabidopsis Serine Carboxypeptidase-Like Sinapoylglucose Acyltransferases Display Distinct But Overlapping Substrate Specificities. Plant Physiology, 2007, 144, 1986-1999.	2.3	121
103	Novel seed coat lignins in the <scp>C</scp> actaceae: structure, distribution and implications for the evolution of lignin diversity. Plant Journal, 2013, 73, 201-211.	2.8	121
104	Structural and compositional modifications in lignin of transgenic alfalfa down-regulated in caffeic acid 3-O-methyltransferase and caffeoyl coenzyme A 3-O-methyltransferase. Phytochemistry, 2003, 62, 53-65.	1.4	120
105	The DUF579 domain containing proteins IRX15 and IRX15‣ affect xylan synthesis in Arabidopsis. Plant Journal, 2011, 66, 387-400.	2.8	120
106	Tricinâ€lignins: occurrence and quantitation of tricin in relation to phylogeny. Plant Journal, 2016, 88, 1046-1057.	2.8	118
107	Lignin Conversion to Low-Molecular-Weight Aromatics via an Aerobic Oxidation-Hydrolysis Sequence: Comparison of Different Lignin Sources. ACS Sustainable Chemistry and Engineering, 2018, 6, 3367-3374.	3.2	118
108	Cell wall fermentation kinetics are impacted more by lignin content and ferulate crossâ€linking than by lignin composition. Journal of the Science of Food and Agriculture, 2009, 89, 122-129.	1.7	116

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109	Systematic Structural Characterization of Metabolites in <i>Arabidopsis</i> via Candidate Substrate-Product Pair Networks Â. Plant Cell, 2014, 26, 929-945.	3.1	116
110	Loss of function of cinnamyl alcohol dehydrogenase 1 leads to unconventional lignin and a temperature-sensitive growth defect in <i>Medicago truncatula</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13660-13665.	3.3	115
111	Identification of the structure and origin of a thioacidolysis marker compound for ferulic acid incorporation into angiosperm lignins (and an indicator for cinnamoyl CoA reductase deficiency). Plant Journal, 2008, 53, 368-379.	2.8	114
112	Coniferyl Ferulate Incorporation into Lignin Enhances the Alkaline Delignification and Enzymatic Degradation of Cell Walls. Biomacromolecules, 2008, 9, 2510-2516.	2.6	114
113	Engineering traditional monolignols out of lignin by concomitant up-regulation of F5H1 and down-regulation of COMT in Arabidopsis. Plant Journal, 2010, 64, 885-897.	2.8	114
114	Lignin–feruloyl ester cross-links in grasses. Part 1. Incorporation of feruloyl esters into coniferyl alcohol dehydrogenation polymers. Journal of the Chemical Society Perkin Transactions 1, 1992, , 2961-2969.	0.9	112
115	NMR Studies on the Occurrence of Spirodienone Structures in Lignins. Journal of Wood Chemistry and Technology, 2006, 26, 65-79.	0.9	112
116	Isolation and structural identification of complex feruloylated heteroxylan side-chains from maize bran. Phytochemistry, 2006, 67, 1276-1286.	1.4	112
117	An essential role of caffeoyl shikimate esterase in monolignol biosynthesis in <i>Medicago truncatula</i> . Plant Journal, 2016, 86, 363-375.	2.8	111
118	NMR Evidence for Benzodioxane Structures Resulting from Incorporation of 5-Hydroxyconiferyl Alcohol into Lignins ofO-Methyltransferase-Deficient Poplars. Journal of Agricultural and Food Chemistry, 2001, 49, 86-91.	2.4	109
119	Lignins and Ferulateâ^'Coniferyl Alcohol Cross-Coupling Products in Cereal Grains. Journal of Agricultural and Food Chemistry, 2004, 52, 6496-6502.	2.4	108
120	A potential role for sinapyl p-coumarate as a radical transfer mechanism in grass lignin formation. Planta, 2008, 228, 919-928.	1.6	107
121	Lignocellulose pretreatment in a fungus-cultivating termite. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4709-4714.	3.3	107
122	Significant Alteration of Gene Expression in Wood Decay Fungi Postia placenta and Phanerochaete chrysosporium by Plant Species. Applied and Environmental Microbiology, 2011, 77, 4499-4507.	1.4	106
123	Cell Wall Structural Foundations: Molecular Basis for Improving Forage Digestibilities. Crop Science, 1999, 39, 27-37.	0.8	103
124	Model Studies of Ferulateâ^'Coniferyl Alcohol Cross-Product Formation in Primary Maize Walls:Â Implications for Lignification in Grasses. Journal of Agricultural and Food Chemistry, 2002, 50, 6008-6016.	2.4	103
125	Isolation and identification of a ferulic acid dehydrotrimer from saponified maize bran insoluble fiber. European Food Research and Technology, 2003, 217, 128-133.	1.6	103
126	Structural Identification of Dehydrotriferulic and Dehydrotetraferulic Acids Isolated from Insoluble Maize Bran Fiber. Journal of Agricultural and Food Chemistry, 2006, 54, 6409-6418.	2.4	103

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127	p-Hydroxyphenyl, Guaiacyl, and Syringyl Lignins Have Similar Inhibitory Effects on Wall Degradability. Journal of Agricultural and Food Chemistry, 1997, 45, 2530-2532.	2.4	102
128	A gel-state 2D-NMR method for plant cell wall profiling and analysis: a model study with the amorphous cellulose and xylan from ball-milled cotton linters. RSC Advances, 2014, 4, 7549-7560.	1.7	100
129	Sinapate Dehydrodimers and Sinapateâ^'Ferulate Heterodimers in Cereal Dietary Fiber. Journal of Agricultural and Food Chemistry, 2003, 51, 1427-1434.	2.4	99
130	Naturally p-Hydroxybenzoylated Lignins in Palms. Bioenergy Research, 2015, 8, 934-952.	2.2	99
131	Different Routes for Conifer- and Sinapaldehyde and Higher Saccharification upon Deficiency in the Dehydrogenase CAD1. Plant Physiology, 2017, 175, 1018-1039.	2.3	99
132	Syringyl lignin production in conifers: Proof of concept in a Pine tracheary element system. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6218-6223.	3.3	98
133	Structural Characterization of Lignin during Pinus taeda Wood Treatment with Ceriporiopsis subvermispora. Applied and Environmental Microbiology, 2004, 70, 4073-4078.	1.4	97
134	Biochemical transformation of lignin for deriving valued commodities from lignocellulose. Current Opinion in Biotechnology, 2017, 45, 120-126.	3.3	95
135	The DFRC Method for Lignin Analysis. 6. A Simple Modification for Identifying Natural Acetates on Lignins. Journal of Agricultural and Food Chemistry, 1998, 46, 4616-4619.	2.4	94
136	Novel tetrahydrofuran structures derived from β–β-coupling reactions involving sinapyl acetate in Kenaf lignins. Organic and Biomolecular Chemistry, 2008, 6, 3681.	1.5	94
137	Grass lignin acylation: p-coumaroyl transferase activity and cell wall characteristics of C3 and C4 grasses. Planta, 2009, 229, 1253-1267.	1.6	94
138	Characterization and Elimination of Undesirable Protein Residues in Plant Cell Wall Materials for Enhancing Lignin Analysis by Solution-State Nuclear Magnetic Resonance Spectroscopy. Biomacromolecules, 2017, 18, 4184-4195.	2.6	94
139	Passive membrane transport of lignin-related compounds. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23117-23123.	3.3	94
140	Isolation and structural characterisation of 8?O?4/8?O?4- and 8?8/8?O?4-coupled dehydrotriferulic acids from maize bran. Phytochemistry, 2005, 66, 363-371.	1.4	92
141	An Engineered Monolignol 4- <i>O</i> -Methyltransferase Depresses Lignin Biosynthesis and Confers Novel Metabolic Capability in <i>Arabidopsis</i> . Plant Cell, 2012, 24, 3135-3152.	3.1	92
142	Syntheses of Lignin-Derived Thioacidolysis Monomers and Their Uses as Quantitation Standards. Journal of Agricultural and Food Chemistry, 2012, 60, 922-928.	2.4	92
143	Breeding with rare defective alleles (BRDA): a natural <i><scp>P</scp>opulus nigra </i> <scp>HCT</scp> mutant with modified lignin as a case study. New Phytologist, 2013, 198, 765-776.	3.5	92
144	Structural elucidation of new ferulic acid-containing phenolic dimers and trimers isolated from maize bran. Tetrahedron Letters, 2005, 46, 5845-5850.	0.7	91

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145	Plant-derived antifungal agent poacic acid targets β-1,3-glucan. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1490-7.	3.3	91
146	Suppression of a single <scp>BAHD</scp> gene in <i>Setaria viridis</i> causes large, stable decreases in cell wall feruloylation and increases biomass digestibility. New Phytologist, 2018, 218, 81-93.	3.5	91
147	Small Glycosylated Lignin Oligomers Are Stored in Arabidopsis Leaf Vacuoles. Plant Cell, 2015, 27, 695-710.	3.1	90
148	Hydroxystilbenes Are Monomers in Palm Fruit Endocarp Lignins. Plant Physiology, 2017, 174, 2072-2082.	2.3	90
149	Silencing <i>CAFFEOYL SHIKIMATE ESTERASE</i> Affects Lignification and Improves Saccharification in Poplar. Plant Physiology, 2017, 175, 1040-1057.	2.3	90
150	Preliminary evidence for sinapyl acetate as a lignin monomer in kenaf. Chemical Communications, 2002, , 90-91.	2.2	88
151	Identification of Lignin and Polysaccharide Modifications in Populus Wood by Chemometric Analysis of 2D NMR Spectra from Dissolved Cell Walls. Molecular Plant, 2009, 2, 933-942.	3.9	87
152	Phenolic Profiling of Caffeic Acid O-Methyltransferase-Deficient Poplar Reveals Novel Benzodioxane Oligolignols. Plant Physiology, 2004, 136, 4023-4036.	2.3	86
153	Signatures of cinnamyl alcohol dehydrogenase deficiency in poplar lignins. Phytochemistry, 2004, 65, 313-321.	1.4	85
154	Silencing <i>CHALCONE SYNTHASE</i> in Maize Impedes the Incorporation of Tricin into Lignin and Increases Lignin Content. Plant Physiology, 2017, 173, 998-1016.	2.3	84
155	Preparation and relevance of a cross-coupling product between sinapyl alcohol and sinapyl p-hydroxybenzoate. Organic and Biomolecular Chemistry, 2004, 2, 2888.	1.5	83
156	NMR Characterization of Lignins Isolated from Fruit and Vegetable Insoluble Dietary Fiber. Journal of Agricultural and Food Chemistry, 2006, 54, 8352-8361.	2.4	83
157	Protection Strategies Enable Selective Conversion of Biomass. Angewandte Chemie - International Edition, 2020, 59, 11704-11716.	7.2	82
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