Richard A Dixon

List of Publications by Year in descending order

185 papers	30,736 citations	2975 93 h-index	4645 170 g-index
188 all docs	188 docs citations	188 times ranked	23713 citing authors

#	Article	IF	Citations
1	Identification of Pueraria spp. through DNA barcoding and comparative transcriptomics. BMC Plant Biology, 2022, 22, 10.	3.6	7
2	<i>MtGSTF7</i>, a TT19-like GST gene, is essential for accumulation of anthocyanins, but not proanthocyanins in <i>Medicago truncatula</i>. Journal of Experimental Botany, 2022, 73, 4129-4146.	4.8	10
3	Developmental changes in lignin composition are driven by both monolignol supply and laccase specificity. Science Advances, 2022, 8, eabm8145.	10.3	26
4	Dual Mechanisms of Coniferyl Alcohol in Phenylpropanoid Pathway Regulation. Frontiers in Plant Science, 2022, 13, .	3.6	8
5	Proteomic and metabolic disturbances in lignin-modified <i>Brachypodium distachyon</i>. Plant Cell, 2022, 34, 3339-3363.	6.6	14
6	The flexibility of proanthocyanidin biosynthesis in plants. Plant Physiology, 2022, 190, 202-205.	4.8	9
7	A role for ascorbate conjugates of (+)-catechin in proanthocyanidin polymerization. Nature Communications, 2022, 13, .	12.8	11
8	Leaf layer-based transcriptome profiling for discovery of epidermal-selective promoters in Medicago truncatula. Planta, 2022, 256, .	3.2	1
9	Coupling of Flavonoid Initiation Sites with Monolignols Studied by Density Functional Theory. ACS Sustainable Chemistry and Engineering, 2021, 9, 1518-1528.	6.7	6
10	UGT84F9 is the major flavonoid UDP-glucuronosyltransferase in<i>Medicago truncatula</i>. Plant Physiology, 2021, 185, 1617-1637.	4.8	11
11	Targeting hydroxycinnamoyl CoA: shikimate hydroxycinnamoyl transferase for lignin modification in Brachypodium distachyon. Biotechnology for Biofuels, 2021, 14, 50.	6.2	17
12	Dissecting the transcriptional regulation of proanthocyanidin and anthocyanin biosynthesis in soybean (<i>Glycine max</i>). Plant Biotechnology Journal, 2021, 19, 1429-1442.	8.3	30
13	Growthâ€“defense tradeâ€offs and yield loss in plants with engineered cell walls. New Phytologist, 2021, 231, 60-74.	7.3	41
14	Dual activity of anthocyanidin reductase supports the dominant plant proanthocyanidin extension unit pathway. Science Advances, 2021, 7, .	10.3	22
15	A gene-editing/complementation strategy for tissue-specific lignin reduction while preserving biomass yield. Biotechnology for Biofuels, 2021, 14, 175.	6.2	12
16	Abscisic acid regulates secondary cell-wall formation and lignin deposition in <i>Arabidopsis thaliana</i> through phosphorylation of NST1. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	69
17	Plant Phenylalanine/Tyrosine Ammonia-lyases. Trends in Plant Science, 2020, 25, 66-79.	8.8	154
18	Multifeature analyses of vascular cambial cells reveal longevity mechanisms in old <i>Ginkgo biloba</i> trees. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2201-2210.	7.1	81

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19	Substrate Specificity of LACCASE8 Facilitates Polymerization of Caffeyl Alcohol for C-Lignin Biosynthesis in the Seed Coat of <i>Cleome hassleriana</i>. Plant Cell, 2020, 32, 3825-3845.	6.6	35
20	Efficient Chemical Synthesis of (Epi)catechin Glucuronides: Brain-Targeted Metabolites for Treatment of Alzheimerâ€™s Disease and Other Neurological Disorders. ACS Omega, 2020, 5, 30095-30110.	3.5	5
21	The Tetracentron genome provides insight into the early evolution of eudicots and the formation of vessel elements. Genome Biology, 2020, 21, 291.	8.8	23
22	Proanthocyanidin Biosynthesisâ€"a Matter of Protection. Plant Physiology, 2020, 184, 579-591.	4.8	59
23	Glucuronidation of Methylated Quercetin Derivatives: Chemical and Biochemical Approaches. Journal of Agricultural and Food Chemistry, 2020, 68, 14790-14807.	5.2	9
24	ARABIDOPSIS DEHISCENCE ZONE POLYGALACTURONASE 1 (ADPG1) releases latent defense signals in stems with reduced lignin content. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3281-3290.	7.1	64
25	Gene regulatory networks for lignin biosynthesis in switchgrass <i>(Panicum virgatum</i>). Plant Biotechnology Journal, 2019, 17, 580-593.	8.3	96
26	Passive membrane transport of lignin-related compounds. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23117-23123.	7.1	94
27	Co-expression networks for plant biology: why and how. Acta Biochimica Et Biophysica Sinica, 2019, 51, 981-988.	2.0	73
28	Finding New Cell Wall Regulatory Genes in Populus trichocarpa Using Multiple Lines of Evidence. Frontiers in Plant Science, 2019, 10, 1249.	3.6	13
29	Multiple levers for overcoming the recalcitrance of lignocellulosic biomass. Biotechnology for Biofuels, 2019, 12, 15.	6.2	47
30	An Efficient Synthesis of Deoxyrhapontigenin-3-<i>O</i>-Î²-<scp>d</scp>-glucuronide, a Brain-Targeted Derivative of Dietary Resveratrol, and Its Precursor 4â€²-<i>O</i>-Me-Resveratrol. ACS Omega, 2019, 4, 8222-8230.	3.5	4
31	VvLAR1 and VvLAR2 Are Bifunctional Enzymes for Proanthocyanidin Biosynthesis in Grapevine. Plant Physiology, 2019, 180, 1362-1374.	4.8	45
32	Enzymatic basis for Câ€lignin monomer biosynthesis in the seed coat of <i>Cleome hassleriana</i>. Plant Journal, 2019, 99, 506-520.	5.7	31
33	4-Coumarate 3-hydroxylase in the lignin biosynthesis pathway is a cytosolic ascorbate peroxidase. Nature Communications, 2019, 10, 1994.	12.8	171
34	Ectopic Defense Gene Expression Is Associated with Growth Defects in <i>Medicago truncatula</i> Lignin Pathway Mutants. Plant Physiology, 2019, 181, 63-84.	4.8	27
35	Lignin biosynthesis: old roads revisited and new roads explored. Open Biology, 2019, 9, 190215.	3.6	136
36	Development and commercialization of reduced lignin alfalfa. Current Opinion in Biotechnology, 2019, 56, 48-54.	6.6	65

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37	Epigenetic modulation of inflammation and synaptic plasticity promotes resilience against stress in mice. Nature Communications, 2018, 9, 477.	12.8	185
38	Mathematical models of lignin biosynthesis. Biotechnology for Biofuels, 2018, 11, 34.	6.2	32
39	Proanthocyanidin subunit composition determined by functionally diverged dioxygenases. Nature Plants, 2018, 4, 1034-1043.	9.3	59
40	A dynamic model of lignin biosynthesis in Brachypodium distachyon. Biotechnology for Biofuels, 2018, 11, 253.	6.2	11
41	An â€œideal ligninâ€•facilitates full biomass utilization. Science Advances, 2018, 4, eaau2968.	10.3	184
42	Noncatalytic chalcone isomerase-fold proteins in <i>Humulus lupulus</i> are auxiliary components in prenylated flavonoid biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5223-E5232.	7.1	74
43	Elicitors and defense gene induction in plants with altered lignin compositions. New Phytologist, 2018, 219, 1235-1251.	7.3	61
44	Current Models for Transcriptional Regulation of Secondary Cell Wall Biosynthesis in Grasses. Frontiers in Plant Science, 2018, 9, 399.	3.6	120
45	Functional Genomics in the Study of Metabolic Pathways in Medicago truncatula: An Overview. Methods in Molecular Biology, 2018, 1822, 315-337.	0.9	9
46	Agronomic Performance and Lignin Content of HCT Down-Regulated Alfalfa (Medicago sativa L.). Bioenergy Research, 2018, 11, 505-515.	3.9	13
47	Reductive Catalytic Fractionation of C-Lignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 11211-11218.	6.7	89
48	A 5-Enolpyruvylshikimate 3-Phosphate Synthase Functions as a Transcriptional Repressor in <i>Populus</i>. Plant Cell, 2018, 30, 1645-1660.	6.6	56
49	Elevating the conversation about GE crops. Nature Biotechnology, 2017, 35, 302-304.	17.5	6
50	A re-evaluation of the final step of vanillin biosynthesis in the orchid Vanilla planifolia. Phytochemistry, 2017, 139, 33-46.	2.9	36
51	Characterization of two TT2-type MYB transcription factors regulating proanthocyanidin biosynthesis in tetraploid cotton, Gossypium hirsutum. Planta, 2017, 246, 323-335.	3.2	31
52	Glucuronidated Flavonoids in Neurological Protection: Structural Analysis and Approaches for Chemical and Biological Synthesis. Journal of Agricultural and Food Chemistry, 2017, 65, 7607-7623.	5.2	28
53	Transgenic switchgrass (<i>Panicum virgatum</i> L.) targeted for reduced recalcitrance to bioconversion: a 2â€year comparative analysis of fieldâ€grown lines modified for target gene or genetic element expression. Plant Biotechnology Journal, 2017, 15, 688-697.	8.3	29
54	Dynamic changes in transcriptome and cell wall composition underlying brassinosteroid-mediated lignification of switchgrass suspension cells. Biotechnology for Biofuels, 2017, 10, 266.	6.2	42

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55	Development and use of a switchgrass (Panicum virgatum L.) transformation pipeline by the BioEnergy Science Center to evaluate plants for reduced cell wall recalcitrance. Biotechnology for Biofuels, 2017, 10, 309.	6.2	26
56	The Differences between NAD-ME and NADP-ME Subtypes of C4 Photosynthesis: More than Decarboxylating Enzymes. Frontiers in Plant Science, 2016, 7, 1525.	3.6	85
57	An essential role of caffeoyl shikimate esterase in monolignol biosynthesis in <i>Medicago truncatula</i>. Plant Journal, 2016, 86, 363-375.	5.7	111
58	Combining enhanced biomass density with reduced lignin level for improved forage quality. Plant Biotechnology Journal, 2016, 14, 895-904.	8.3	75
59	A role for leucoanthocyanidin reductase in the extension of proanthocyanidins. Nature Plants, 2016, 2, 16182.	9.3	106
60	Role of bifunctional ammonia-lyase in grass cell wall biosynthesis. Nature Plants, 2016, 2, 16050.	9.3	242
61	Transcriptome analysis of secondary cell wall development in Medicago truncatula. BMC Genomics, 2016, 17, 23.	2.8	22
62	Superior plant based carbon fibers from electrospun poly-(caffeyl alcohol) lignin. Carbon, 2016, 103, 372-383.	10.3	56
63	Comparative cell-specific transcriptomics reveals differentiation of C₄photosynthesis pathways in switchgrass and other C₄lineages. Journal of Experimental Botany, 2016, 67, 1649-1662.	4.8	56
64	Genome-Scale Identification of Cell-Wall-Related Genes in Switchgrass through Comparative Genomics and Computational Analyses of Transcriptomic Data. Bioenergy Research, 2016, 9, 172-180.	3.9	10
65	Loss of function of folylpolyglutamate synthetase 1 reduces lignin content and improves cell wall digestibility in Arabidopsis. Biotechnology for Biofuels, 2015, 8, 224.	6.2	27
66	Computational inference of the structure and regulation of the lignin pathway in Panicum virgatum. Biotechnology for Biofuels, 2015, 8, 151.	6.2	20
67	The Transcriptional Repressor MYB2 Regulates Both Spatial and Temporal Patterns of Proanthocyandin and Anthocyanin Pigmentation in<i>Medicago truncatula</i>. Plant Cell, 2015, 27, tpc.15.00476.	6.6	106
68	Synthesis and Quantitative Analysis of Plasma-Targeted Metabolites of Catechin and Epicatechin. Journal of Agricultural and Food Chemistry, 2015, 63, 2233-2240.	5.2	22
69	Control of Vegetative to Reproductive Phase Transition Improves Biomass Yield and Simultaneously Reduces Lignin Content in Medicago truncatula. Bioenergy Research, 2015, 8, 857-867.	3.9	23
70	Role of a chalcone isomerase-like protein in flavonoid biosynthesis in<i>Arabidopsis thaliana</i>. Journal of Experimental Botany, 2015, 66, 7165-7179.	4.8	131
71	Pinoresinol reductase 1 impacts lignin distribution during secondary cell wall biosynthesis in Arabidopsis. Phytochemistry, 2015, 112, 170-178.	2.9	31
72	A deep transcriptomic analysis of pod development in the vanilla orchid (Vanilla planifolia). BMC Genomics, 2014, 15, 964.	2.8	42

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73	MYB5 and MYB14 Play Pivotal Roles in Seed Coat Polymer Biosynthesis in <i>Medicago truncatula</i> Â Â Â. Plant Physiology, 2014, 165, 1424-1439.	4.8	113
74	Twoâ€year field analysis of reduced recalcitrance transgenic switchgrass. Plant Biotechnology Journal, 2014, 12, 914-924.	8.3	104
75	Altering the Cell Wall and Its Impact on Plant Disease: From Forage to Bioenergy. Annual Review of Phytopathology, 2014, 52, 69-91.	7.8	96
76	Lignin Valorization: Improving Lignin Processing in the Biorefinery. Science, 2014, 344, 1246843.	12.6	2,994
77	Structural Studies of Cinnamoyl-CoA Reductase and Cinnamyl-Alcohol Dehydrogenase, Key Enzymes of Monolignol Biosynthesis Â. Plant Cell, 2014, 26, 3709-3727.	6.6	85
78	Early lignin pathway enzymes and routes to chlorogenic acid in switchgrass (Panicum virgatum L.). Plant Molecular Biology, 2014, 84, 565-576.	3.9	62
79	Enhanced characteristics of genetically modified switchgrass (Panicum virgatum L.) for high biofuel production. Biotechnology for Biofuels, 2013, 6, 71.	6.2	118
80	Standardization of Switchgrass Sample Collection for Cell Wall and Biomass Trait Analysis. Bioenergy Research, 2013, 6, 755-762.	3.9	87
81	<i>LACCASE</i> Is Necessary and Nonredundant with <i>PEROXIDASE</i> for Lignin Polymerization during Vascular Development in <i>Arabidopsis</i> Â Â. Plant Cell, 2013, 25, 3976-3987.	6.6	453
82	Functional Characterization of Proanthocyanidin Pathway Enzymes from Tea and Their Application for Metabolic Engineering Â Â. Plant Physiology, 2013, 161, 1103-1116.	4.8	130
83	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.	5.7	121
84	Metabolic engineering of anthocyanins and condensed tannins in plants. Current Opinion in Biotechnology, 2013, 24, 329-335.	6.6	185
85	Characterization of the Formation of Branched Short-Chain Fatty Acid:CoAs for Bitter Acid Biosynthesis in Hop Glandular Trichomes. Molecular Plant, 2013, 6, 1301-1317.	8.3	64
86	Medicago glucosyltransferase UGT72L1: potential roles in proanthocyanidin biosynthesis. Planta, 2013, 238, 139-154.	3.2	39
87	A Genomics Approach to Deciphering Lignin Biosynthesis in Switchgrass. Plant Cell, 2013, 25, 4342-4361.	6.6	109
88	Coexistence but Independent Biosynthesis of Catechyl and Guaiacyl/Syringyl Lignin Polymers in Seed Coats. Plant Cell, 2013, 25, 2587-2600.	6.6	161
89	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.	7.1	115
90	Development of an integrated transcript sequence database and a gene expression atlas for gene discovery and analysis in switchgrass (<i>Panicum virgatum</i> L.). Plant Journal, 2013, 74, 160-173.	5.7	70

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91	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.	7.1	314
92	MtPAR MYB transcription factor acts as an on switch for proanthocyanidin biosynthesis in <i>Medicago truncatula</i>. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1766-1771.	7.1	135
93	Onâ€"Off Switches for Secondary Cell Wall Biosynthesis. Molecular Plant, 2012, 5, 297-303.	8.3	186
94	Brain-Targeted Proanthocyanidin Metabolites for Alzheimer's Disease Treatment. Journal of Neuroscience, 2012, 32, 5144-5150.	3.6	188
95	Enzymatic synthesis of substituted epicatechins for bioactivity studies in neurological disorders. Biochemical and Biophysical Research Communications, 2012, 417, 457-461.	2.1	23
96	Down-regulation of the caffeic acid O-methyltransferase gene in switchgrass reveals a novel monolignol analog. Biotechnology for Biofuels, 2012, 5, 71.	6.2	96
97	Functional characterization of the switchgrass (<i>Panicum virgatum</i>) R2R3â€MYB transcription factor <i>PvMYB4</i> for improvement of lignocellulosic feedstocks. New Phytologist, 2012, 193, 121-136.	7.3	264
98	Gatewayâ€compatible vectors for highâ€throughput gene functional analysis in switchgrass (<i>Panicum) Tj ETQq0 0 0 rgBT /Overlock	8.3	150
99	Genetic manipulation of lignin reduces recalcitrance and improves ethanol production from switchgrass. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3803-3808.	7.1	585
100	MATE2 Mediates Vacuolar Sequestration of Flavonoid Glycosides and Glycoside Malonates in<i>Medicago truncatula</i>Â Â Â. Plant Cell, 2011, 23, 1536-1555.	6.6	227
101	Salicylic acid mediates the reduced growth of lignin down-regulated plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20814-20819.	7.1	159
102	The Medicago genome provides insight into the evolution of rhizobial symbioses. Nature, 2011, 480, 520-524.	27.8	1,166
103	Transcriptional networks for lignin biosynthesis: more complex than we thought?. Trends in Plant Science, 2011, 16, 227-233.	8.8	505
104	NAC domain function and transcriptional control of a secondary cell wall master switch. Plant Journal, 2011, 68, 1104-1114.	5.7	112
105	Selective lignin downregulation leads to constitutive defense response expression in alfalfa (<i>Medicago sativa</i> L.). New Phytologist, 2011, 190, 627-639.	7.3	171
106	Silencing of 4-coumarate:coenzyme A ligase in switchgrass leads to reduced lignin content and improved fermentable sugar yields for biofuel production. New Phytologist, 2011, 192, 611-625.	7.3	217
107	A genomic approach to isoflavone biosynthesis in kudzu (Pueraria lobata). Planta, 2011, 233, 843-855.	3.2	72
108	Integrative Analysis of Transgenic Alfalfa (Medicago sativa L.) Suggests New Metabolic Control Mechanisms for Monolignol Biosynthesis. PLoS Computational Biology, 2011, 7, e1002047.	3.2	54

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109	Switchgrass (<i>Panicum virgatum</i>) possesses a divergent family of cinnamoyl CoA reductases with distinct biochemical properties. New Phytologist, 2010, 185, 143-155.	7.3	83
110	Genomeâ€wide analysis of phenylpropanoid defence pathways. Molecular Plant Pathology, 2010, 11, 829-846.	4.2	332
111	An NAC transcription factor orchestrates multiple features of cell wall development in Medicago truncatula. Plant Journal, 2010, 63, no-no.	5.7	109
112	Mutation of WRKY transcription factors initiates pith secondary wall formation and increases stem biomass in dicotyledonous plants. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22338-22343.	7.1	338
113	Syringyl lignin biosynthesis is directly regulated by a secondary cell wall master switch. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14496-14501.	7.1	103
114	Flavonoids and Isoflavonoids: From Plant Biology to Agriculture and Neuroscience. Plant Physiology, 2010, 154, 453-457.	4.8	271
115	Distinct cinnamoyl CoA reductases involved in parallel routes to lignin in <i>Medicago truncatula</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17803-17808.	7.1	101
116	Increase in 4-Coumaryl Alcohol Units during Lignification in Alfalfa (Medicago sativa) Alters the Extractability and Molecular Weight of Lignin. Journal of Biological Chemistry, 2010, 285, 38961-38968.	3.4	102
117	The Mysteries of Proanthocyanidin Transport and Polymerization. Plant Physiology, 2010, 153, 437-443.	4.8	185
118	The â€˜insâ€™ and â€˜outsâ€™ of flavonoid transport. Trends in Plant Science, 2010, 15, 72-80.	8.8	390
119	Genomic and Coexpression Analyses Predict Multiple Genes Involved in Triterpene Saponin Biosynthesis in <i>Medicago truncatula</i> Â Â. Plant Cell, 2010, 22, 850-866.	6.6	168
120	TrichOME: A Comparative Omics Database for Plant Trichomes Â Â Â. Plant Physiology, 2009, 152, 44-54.	4.8	98
121	Heterodimeric geranyl(geranyl)diphosphate synthase from hop (<i>Humulus lupulus</i>) and the evolution of monoterpene biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9914-9919.	7.1	141
122	A WD40 Repeat Protein from<i>Medicago truncatula</i>Is Necessary for Tissue-Specific Anthocyanin and Proanthocyanidin Biosynthesis But Not for Trichome Development Â Â. Plant Physiology, 2009, 151, 1114-1129.	4.8	137
123	MATE Transporters Facilitate Vacuolar Uptake of Epicatechin 3â€²-<i>O</i>-Glucoside for Proanthocyanidin Biosynthesis in<i>Medicago truncatula</i>and<i>Arabidopsis</i>Â Â. Plant Cell, 2009, 21, 2323-2340.	6.6	332
124	Single amino acid mutations of <i>Medicago</i> glycosyltransferase UGT85H2 enhance activity and impart reversibility. FEBS Letters, 2009, 583, 2131-2135.	2.8	39
125	The LAP1 MYB transcription factor orchestrates anthocyanidin biosynthesis and glycosylation in <i>Medicago</i>. Plant Journal, 2009, 59, 136-149.	5.7	155
126	Crystal Structures of Glycosyltransferase UGT78G1 Reveal the Molecular Basis for Glycosylation and Deglycosylation of (Iso)flavonoids. Journal of Molecular Biology, 2009, 392, 1292-1302.	4.2	142

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127	Phenylalanine ammonia-lyase (PAL) from tobacco (<i>Nicotiana tabacum</i>): characterization of the four tobacco <i>PAL</i> genes and active heterotetrameric enzymes. Biochemical Journal, 2009, 424, 233-242.	3.7	82
128	Regioselective synthesis of plant (iso)flavone glycosides in Escherichia coli. Applied Microbiology and Biotechnology, 2008, 80, 253-260.	3.6	50
129	Improving Saccharification Efficiency of Alfalfa Stems Through Modification of the Terminal Stages of Monolignol Biosynthesis. Bioenergy Research, 2008, 1, 180-192.	3.9	106
130	Multiâ€site genetic modification of monolignol biosynthesis in alfalfa (<i>Medicago sativa</i>): effects on lignin composition in specific cell types. New Phytologist, 2008, 179, 738-750.	7.3	113
131	Terpene Biosynthesis in Glandular Trichomes of Hop Â Â. Plant Physiology, 2008, 148, 1254-1266.	4.8	180
132	A transcript profiling approach reveals an epicatechin-specific glucosyltransferase expressed in the seed coat of <i>Medicago truncatula</i>. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14210-14215.	7.1	185
133	Early Steps in Proanthocyanidin Biosynthesis in the Model Legume <i>Medicago truncatula</i> Â. Plant Physiology, 2007, 145, 601-615.	4.8	203
134	Crystal Structure of Medicago truncatula UGT85H2 â€“ Insights into the Structural Basis of a Multifunctional (Iso)flavonoid Glycosyltransferase. Journal of Molecular Biology, 2007, 370, 951-963.	4.2	170
135	Lignin modification improves fermentable sugar yields for biofuel production. Nature Biotechnology, 2007, 25, 759-761.	17.5	1,135
136	A functional genomics approach to (iso)flavonoid glycosylation in the model legume Medicago truncatula. Plant Molecular Biology, 2007, 64, 499-518.	3.9	149
137	Down-regulation of hydroxycinnamoyl CoA: Shikimate hydroxycinnamoyl transferase in transgenic alfalfa affects lignification, development and forage quality. Phytochemistry, 2007, 68, 1521-1529.	2.9	232
138	Effects of Coumarate 3-Hydroxylase Down-regulation on Lignin Structure. Journal of Biological Chemistry, 2006, 281, 8843-8853.	3.4	209
139	Metabolic engineering of proanthocyanidins through co-expression of anthocyanidin reductase and the PAP1 MYB transcription factor. Plant Journal, 2006, 45, 895-907.	5.7	210
140	Multi-site genetic modulation of monolignol biosynthesis suggests new routes for formation of syringyl lignin and wall-bound ferulic acid in alfalfa (Medicago sativaL.). Plant Journal, 2006, 48, 113-124.	5.7	171
141	Proanthocyanidin biosynthesis â€“ still more questions than answers?. Phytochemistry, 2005, 66, 2127-2144.	2.9	326
142	Proanthocyanidins â€“ a final frontier in flavonoid research?. New Phytologist, 2005, 165, 9-28.	7.3	951
143	Genomics-based selection and functional characterization of triterpene glycosyltransferases from the model legume Medicago truncatula. Plant Journal, 2005, 41, 875-887.	5.7	262
144	Metabolic engineering of proanthocyanidins by ectopic expression of transcription factors in Arabidopsis thaliana. Plant Journal, 2005, 44, 62-75.	5.7	114

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145	Targeted down-regulation of cytochrome P450 enzymes for forage quality improvement in alfalfa (Medicago sativa L.). Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16573-16578.	7.1	306
146	Metabolic Engineering of Isoflavonoid Biosynthesis in Alfalfa. Plant Physiology, 2005, 138, 2245-2259.	4.8	159
147	Crystal Structures of a Multifunctional Triterpene/Flavonoid Glycosyltransferase from Medicago truncatula. Plant Cell, 2005, 17, 3141-3154.	6.6	322
148	Metabolic profiling of Medicago truncatula cell cultures reveals the effects of biotic and abiotic elicitors on metabolism. Journal of Experimental Botany, 2005, 56, 323-336.	4.8	347
149	Colocalization of l-Phenylalanine Ammonia-Lyase and Cinnamate 4-Hydroxylase for Metabolic Channeling in Phenylpropanoid Biosynthesis. Plant Cell, 2004, 16, 3098-3109.	6.6	291
150	O-Methylation of benzaldehyde derivatives by â€œlignin specificâ€• caffeic acid 3-O-methyltransferase. Phytochemistry, 2004, 65, 837-846.	2.9	32
151	Anthocyanidin reductases from Medicago truncatula and Arabidopsis thaliana. Archives of Biochemistry and Biophysics, 2004, 422, 91-102.	3.0	154
152	PHYTOESTROGENS. Annual Review of Plant Biology, 2004, 55, 225-261.	18.7	403
153	Biosynthesis of monolignols. Genomic and reverse genetic approaches. Phytochemistry Reviews, 2003, 2, 289-306.	6.5	35
154	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.	2.9	120
155	Profiling phenolic metabolites in transgenic alfalfa modified in lignin biosynthesis. Phytochemistry, 2003, 64, 1013-1021.	2.9	68
156	Regiospecific hydroxylation of isoflavones by cytochrome P450 81E enzymes fromMedicago truncatula. Plant Journal, 2003, 36, 471-484.	5.7	132
157	Role of Anthocyanidin Reductase, Encoded by BANYULS in Plant Flavonoid Biosynthesis. Science, 2003, 299, 396-399.	12.6	663
158	RESEARCH BRIEFS: A hairy tissue produces vanillin. Israel Journal of Plant Sciences, 2003, 51, 157-159.	0.5	35
159	The phenylpropanoid pathway and plant defenceâ€"a genomics perspective. Molecular Plant Pathology, 2002, 3, 371-390.	4.2	1,095
160	Unusual 4-hydroxybenzaldehyde synthase activity from tissue cultures of the vanilla orchid Vanilla planifolia. Phytochemistry, 2002, 61, 611-620.	2.9	86
161	The biosynthesis of monolignols: a â€œmetabolic gridâ€, or independent pathways to guaiacyl and syringyl units?. Phytochemistry, 2001, 57, 1069-1084.	2.9	241
162	Improvement of in-rumen digestibility of alfalfa forage by genetic manipulation of lignin O-methyltransferases. Transgenic Research, 2001, 10, 457-464.	2.4	165

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