Zheng-Hua Ye

List of Publications by Year
in descending order

79 papers	12,156 citations	36271 51 h-index	64755 79 g-index
80 all docs	80 docs citations	80 times ranked	6690 citing authors

#	Article	IF	Citations
1	Cell wall biology of the moss<i>Physcomitrium patens</i>. Journal of Experimental Botany, 2022, 73, 4440-4453.	2.4	10
2	XND1 Regulates Secondary Wall Deposition in Xylem Vessels through the Inhibition of VND Functions. Plant and Cell Physiology, 2021, 62, 53-65.	1.5	20
3	Xylem vesselâ€specific SND5 and its homologs regulate secondary wall biosynthesis through activating secondary wall NAC binding elements. New Phytologist, 2021, 231, 1496-1509.	3.5	24
4	A Single Xyloglucan Xylosyltransferase Is Sufficient for Generation of the XXXG Xylosylation Pattern of Xyloglucan. Plant and Cell Physiology, 2021, 62, 1589-1602.	1.5	8
5	Functional analysis of GT61 glycosyltransferases from grass species in xylan substitutions. Planta, 2021, 254, 131.	1.6	7
6	Cytosolic Acetyl-CoA Generated by ATP-Citrate Lyase Is Essential for Acetylation of Cell Wall Polysaccharides. Plant and Cell Physiology, 2020, 61, 64-75.	1.5	11
7	A Group of O-Acetyltransferases Catalyze Xyloglucan Backbone Acetylation and Can Alter Xyloglucan Xylosylation Pattern and Plant Growth When Expressed in Arabidopsis. Plant and Cell Physiology, 2020, 61, 1064-1079.	1.5	14
8	Evolutionary origin of <i>O</i>â€acetyltransferases responsible for glucomannan acetylation in land plants. New Phytologist, 2019, 224, 466-479.	3.5	26
9	Secondary cell wall biosynthesis. New Phytologist, 2019, 221, 1703-1723.	3.5	185
10	A Novel Rice Xylosyltransferase Catalyzes the Addition of 2-O-Xylosyl Side Chains onto the Xylan Backbone. Plant and Cell Physiology, 2018, 59, 554-565.	1.5	40
11	Biochemical characterization of rice xylan O-acetyltransferases. Planta, 2018, 247, 1489-1498.	1.6	19
12	A group of Populus trichocarpa DUF231 proteins exhibit differential O-acetyltransferase activities toward xylan. PLoS ONE, 2018, 13, e0194532.	1.1	21
13	Xyloglucan O-acetyltransferases from Arabidopsis thaliana and Populus trichocarpa catalyze acetylation of fucosylated galactose residues on xyloglucan side chains. Planta, 2018, 248, 1159-1171.	1.6	26
14	Members of the DUF231 Family are O-Acetyltransferases Catalyzing 2-O- and 3-O-Acetylation of Mannan. Plant and Cell Physiology, 2018, 59, 2339-2349.	1.5	14
15	Cytosol-Localized UDP-Xylose Synthases Provide the Major Source of UDP-Xylose for the Biosynthesis of Xylan and Xyloglucan. Plant and Cell Physiology, 2017, 58, pcw179.	1.5	25
16	Regiospecific Acetylation of Xylan is Mediated by a Group of DUF231-Containing O-Acetyltransferases. Plant and Cell Physiology, 2017, 58, 2126-2138.	1.5	58
17	Mutations of Arabidopsis TBL32 and TBL33 Affect Xylan Acetylation and Secondary Wall Deposition. PLoS ONE, 2016, 11, e0146460.	1.1	76
18	Evolutionary Conservation of Xylan Biosynthetic Genes in<i>Selaginella moellendorffii</i>and<i>Physcomitrella patens</i>. Plant and Cell Physiology, 2016, 57, 1707-1719.	1.5	16

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19	Roles of Arabidopsis TBL34 and TBL35 in xylan acetylation and plant growth. Plant Science, 2016, 243, 120-130.	1.7	59
20	TBL3 and TBL31, Two Arabidopsis DUF231 Domain Proteins, are Required for 3-<i>O</i>-Monoacetylation of Xylan. Plant and Cell Physiology, 2016, 57, 35-45.	1.5	47
21	Functional Characterization of NAC and MYB Transcription Factors Involved in Regulation of Biomass Production in Switchgrass (Panicum virgatum). PLoS ONE, 2015, 10, e0134611.	1.1	68
22	Kinesin-4 Functions in Vesicular Transport on Cortical Microtubules and Regulates Cell Wall Mechanics during Cell Elongation in Plants. Molecular Plant, 2015, 8, 1011-1023.	3.9	83
23	Molecular control of wood formation in trees. Journal of Experimental Botany, 2015, 66, 4119-4131.	2.4	148
24	The<i>Arabidopsis</i>NAC transcription factor NST2 functions together with SND1 and NST1 to regulate secondary wall biosynthesis in fibers of inflorescence stems. Plant Signaling and Behavior, 2015, 10, e989746.	1.2	53
25	Secondary Cell Walls: Biosynthesis, Patterned Deposition and Transcriptional Regulation. Plant and Cell Physiology, 2015, 56, 195-214.	1.5	360
26	Identification and Biochemical Characterization of Four Wood-Associated Glucuronoxylan Methyltransferases in Populus. PLoS ONE, 2014, 9, e87370.	1.1	17
27	Functional roles of rice glycosyltransferase family GT43 in xylan biosynthesis. Plant Signaling and Behavior, 2014, 9, e27809.	1.2	54
28	Identification of a disaccharide side chain 2-<i>O</i>-Î±-D-galactopyranosyl-Î±-D-glucuronic acid in<i>Arabidopsis</i>xylan. Plant Signaling and Behavior, 2014, 9, e27933.	1.2	18
29	Alterations of the degree of xylan acetylation in<i>Arabidopsis</i>xylan mutants. Plant Signaling and Behavior, 2014, 9, e27797.	1.2	17
30	Complexity of the transcriptional network controlling secondary wall biosynthesis. Plant Science, 2014, 229, 193-207.	1.7	124
31	Modification of the degree of 4-O-methylation of secondary wall glucuronoxylan. Plant Science, 2014, 219-220, 42-50.	1.7	28
32	Arabidopsis NAC Domain Proteins, VND1 to VND5, Are Transcriptional Regulators of Secondary Wall Biosynthesis in Vessels. PLoS ONE, 2014, 9, e105726.	1.1	169
33	The Arabidopsis DUF231 Domain-Containing Protein ESK1 Mediates 2-O- and 3-O-Acetylation of Xylosyl Residues in Xylan. Plant and Cell Physiology, 2013, 54, 1186-1199.	1.5	129
34	The Poplar MYB Master Switches Bind to the SMRE Site and Activate the Secondary Wall Biosynthetic Program during Wood Formation. PLoS ONE, 2013, 8, e69219.	1.1	130
35	Arabidopsis Family GT43 Members are Xylan Xylosyltransferases Required for the Elongation of the Xylan Backbone. Plant and Cell Physiology, 2012, 53, 135-143.	1.5	76
36	Biochemical characterization of xylan xylosyltransferases involved in wood formation in poplar. Plant Signaling and Behavior, 2012, 7, 332-337.	1.2	23

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37	Arabidopsis GUX Proteins Are Glucuronyltransferases Responsible for the Addition of Glucuronic Acid Side Chains onto Xylan. Plant and Cell Physiology, 2012, 53, 1204-1216.	1.5	97
38	MYB46 and MYB83 Bind to the SMRE Sites and Directly Activate a Suite of Transcription Factors and Secondary Wall Biosynthetic Genes. Plant and Cell Physiology, 2012, 53, 368-380.	1.5	325
39	Three Arabidopsis DUF579 Domain-Containing GXM Proteins are Methyltransferases Catalyzing 4-O-Methylation of Glucuronic Acid on Xylan. Plant and Cell Physiology, 2012, 53, 1934-1949.	1.5	84
40	Molecular Dissection of Xylan Biosynthesis during Wood Formation in Poplar. Molecular Plant, 2011, 4, 730-747.	3.9	81
41	The Four Arabidopsis REDUCED WALL ACETYLATION Genes are Expressed in Secondary Wall-Containing Cells and Required for the Acetylation of Xylan. Plant and Cell Physiology, 2011, 52, 1289-1301.	1.5	132
42	Dissection of the Transcriptional Program Regulating Secondary Wall Biosynthesis during Wood Formation in Poplar Â Â Â. Plant Physiology, 2011, 157, 1452-1468.	2.3	220
43	Transcriptional Activation of Secondary Wall Biosynthesis by Rice and Maize NAC and MYB Transcription Factors. Plant and Cell Physiology, 2011, 52, 1856-1871.	1.5	270
44	The Arabidopsis Family GT43 Glycosyltransferases Form Two Functionally Nonredundant Groups Essential for the Elongation of Glucuronoxylan Backbone Â Â. Plant Physiology, 2010, 153, 526-541.	2.3	99
45	Functional Characterization of Poplar Wood-Associated NAC Domain Transcription Factors. Plant Physiology, 2010, 152, 1044-1055.	2.3	245
46	The Poplar MYB Transcription Factors, PtrMYB3 and PtrMYB20, are Involved in the Regulation of Secondary Wall Biosynthesis. Plant and Cell Physiology, 2010, 51, 1084-1090.	1.5	199
47	The poplar PtrWNDs are transcriptional activators of secondary cell wall biosynthesis. Plant Signaling and Behavior, 2010, 5, 469-472.	1.2	48
48	Evolutionary conservation of the transcriptional network regulating secondary cell wall biosynthesis. Trends in Plant Science, 2010, 15, 625-632.	4.3	288
49	Global Analysis of Direct Targets of Secondary Wall NAC Master Switches in Arabidopsis. Molecular Plant, 2010, 3, 1087-1103.	3.9	323
50	Down-Regulation of PoGT47C Expression in Poplar Results in a Reduced Glucuronoxylan Content and an Increased Wood Digestibility by Cellulase. Plant and Cell Physiology, 2009, 50, 1075-1089.	1.5	111
51	Transcriptional regulation of lignin biosynthesis. Plant Signaling and Behavior, 2009, 4, 1028-1034.	1.2	215
52	The Poplar GT8E and GT8F Glycosyltransferases are Functional Orthologs of Arabidopsis PARVUS Involved in Glucuronoxylan Biosynthesis. Plant and Cell Physiology, 2009, 50, 1982-1987.	1.5	37
53	The F8H Glycosyltransferase is a Functional Paralog of FRA8 Involved in Glucuronoxylan Biosynthesis in Arabidopsis. Plant and Cell Physiology, 2009, 50, 812-827.	1.5	98
54	MYB83 Is a Direct Target of SND1 and Acts Redundantly with MYB46 in the Regulation of Secondary Cell Wall Biosynthesis in Arabidopsis. Plant and Cell Physiology, 2009, 50, 1950-1964.	1.5	471

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55	MYB58 and MYB63 Are Transcriptional Activators of the Lignin Biosynthetic Pathway during Secondary Cell Wall Formation in <i>Arabidopsis</i> Â Â. Plant Cell, 2009, 21, 248-266.	3.1	737
56	A Battery of Transcription Factors Involved in the Regulation of Secondary Cell Wall Biosynthesis in <i>Arabidopsis</i>. Plant Cell, 2008, 20, 2763-2782.	3.1	866
57	The MYB46 Transcription Factor Is a Direct Target of SND1 and Regulates Secondary Wall Biosynthesis in <i>Arabidopsis</i>. Plant Cell, 2007, 19, 2776-2792.	3.1	576
58	The PARVUS Gene is Expressed in Cells Undergoing Secondary Wall Thickening and is Essential for Glucuronoxylan Biosynthesis. Plant and Cell Physiology, 2007, 48, 1659-1672.	1.5	161
59	Arabidopsis irregular xylem8 and irregular xylem9: Implications for the Complexity of Glucuronoxylan Biosynthesis. Plant Cell, 2007, 19, 549-563.	3.1	396
60	The irregular xylem9 Mutant is Deficient in Xylan Xylosyltransferase Activity. Plant and Cell Physiology, 2007, 48, 1624-1634.	1.5	147
61	Alteration in Secondary Wall Deposition by Overexpression of the Fragile Fiber1 Kinesinâ€Like Protein in <i>Arabidopsis</i>. Journal of Integrative Plant Biology, 2007, 49, 1235-1243.	4.1	17
62	Two NAC domain transcription factors, SND1 and NST1, function redundantly in regulation of secondary wall synthesis in fibers of Arabidopsis. Planta, 2007, 225, 1603-1611.	1.6	373
63	Important new players in secondary wall synthesis. Trends in Plant Science, 2006, 11, 162-164.	4.3	21
64	Disruption of Cortical Microtubules by Overexpression of Green Fluorescent Protein-Tagged alpha-Tubulin 6 Causes a Marked Reduction in Cell Wall Synthesis. Journal of Integrative Plant Biology, 2006, 48, 85-98.	4.1	47
65	SND1, a NAC Domain Transcription Factor, Is a Key Regulator of Secondary Wall Synthesis in Fibers of Arabidopsis. Plant Cell, 2006, 18, 3158-3170.	3.1	655
66	Arabidopsis Fragile Fiber8, Which Encodes a Putative Glucuronyltransferase, Is Essential for Normal Secondary Wall Synthesis. Plant Cell, 2005, 17, 3390-3408.	3.1	301
67	amphivasal vascular bundle 1, a Gain-of-Function Mutation of the IFL1/REV Gene, Is Associated with Alterations in the Polarity of Leaves, Stems and Carpels. Plant and Cell Physiology, 2004, 45, 369-385.	1.5	186
68	Expression of a Mutant Form of Cellulose Synthase AtCesA7 Causes Dominant Negative Effect on Cellulose Biosynthesis. Plant Physiology, 2003, 132, 786-795.	2.3	128
69	Alteration of Oriented Deposition of Cellulose Microfibrils by Mutation of a Katanin-Like Microtubule-Severing Protein. Plant Cell, 2002, 14, 2145-2160.	3.1	248
70	VASCULARTISSUEDIFFERENTIATION ANDPATTERNFORMATION INPLANTS. Annual Review of Plant Biology, 2002, 53, 183-202.	8.6	268
71	Vascular development in Arabidopsis. International Review of Cytology, 2002, 220, 225-256.	6.2	54
72	A Katanin-like Protein Regulates Normal Cell Wall gBiosynthesis and Cell Elongation. Plant Cell, 2001, 13, 807-827.	3.1	330

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73	Alteration of Auxin Polar Transport in the Arabidopsisifl1 Mutants. Plant Physiology, 2001, 126, 549-563.	2.3	146
74	Fibers. A Model for Studying Cell Differentiation, Cell Elongation, and Cell Wall Biosynthesis. Plant Physiology, 2001, 126, 477-479.	2.3	48
75	Essential Role of Caffeoyl Coenzyme A O-Methyltransferase in Lignin Biosynthesis in Woody Poplar Plants. Plant Physiology, 2000, 124, 563-578.	2.3	240
76	Ectopic Deposition of Lignin in the Pith of Stems of Two Arabidopsis Mutants. Plant Physiology, 2000, 123, 59-70.	2.3	94
77	Transformation of the Collateral Vascular Bundles into Amphivasal Vascular Bundles in an Arabidopsis Mutant1. Plant Physiology, 1999, 120, 53-64.	2.3	59
78	IFL1, a Gene Regulating Interfascicular Fiber Differentiation in Arabidopsis, Encodes a Homeodomain-Leucine Zipper Protein. Plant Cell, 1999, 11, 2139-2152.	3.1	271
79	Dual Methylation Pathways in Lignin Biosynthesis. Plant Cell, 1998, 10, 2033-2045.	3.1	239