

# Yi-Hua Zhou

## List of Publications by Year in descending order

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61  
papers

3,365  
citations

136740

32  
h-index

149479

56  
g-index

76  
all docs

76  
docs citations

76  
times ranked

3895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Xylan-based nanocompartments orchestrate plant vessel wall patterning. <i>Nature Plants</i> , 2022, 8, 295-306.	4.7	23
2	Rice <i>STOMATAL CYTOKINESIS DEFECTIVE2</i> regulates cell expansion by affecting vesicular trafficking in rice. <i>Plant Physiology</i> , 2022, 189, 567-584.	2.3	7
3	The transcription factor ZmMYB69 represses lignin biosynthesis by activating <i>ZmMYB31/42</i> expression in maize. <i>Plant Physiology</i> , 2022, 189, 1916-1919.	2.3	11
4	A solid-state nanopore-based single-molecule approach for label-free characterization of plant polysaccharides. <i>Plant Communications</i> , 2021, 2, 100106.	3.6	23
5	The plant cell wall: Biosynthesis, construction, and functions. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 251-272.	4.1	182
6	Formyl tetrahydrofolate deformylase affects hydrogen peroxide accumulation and leaf senescence by regulating the folate status and redox homeostasis in rice. <i>Science China Life Sciences</i> , 2021, 64, 720-738.	2.3	9
7	Functional understanding of secondary cell wall cellulose synthases in <i>Populus trichocarpa</i> via the Cas9/gRNA-induced gene knockouts. <i>New Phytologist</i> , 2021, 231, 1478-1495.	3.5	26
8	Galactosylation of rhamnogalacturonan-II for cell wall pectin biosynthesis is critical for root apoplastic iron reallocation in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2021, 14, 1640-1651.	3.9	13
9	Solid-state NMR of unlabeled plant cell walls: high-resolution structural analysis without isotopic enrichment. <i>Biotechnology for Biofuels</i> , 2021, 14, 14.	6.2	32
10	MYB61 is regulated by GRF4 and promotes nitrogen utilization and biomass production in rice. <i>Nature Communications</i> , 2020, 11, 5219.	5.8	61
11	UDP-Api/UDP-Xyl synthases affect plant development by controlling the content of UDP-Api to regulate the RG-uracil borate complex. <i>Plant Journal</i> , 2020, 104, 252-267.	2.8	12
12	DROOPY LEAF1 controls leaf architecture by orchestrating early brassinosteroid signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21766-21774.	3.3	39
13	Phenylpropanoid Derivatives Are Essential Components of Sporopollenin in Vascular Plants. <i>Molecular Plant</i> , 2020, 13, 1644-1653.	3.9	66
14	Identification and fine mapping of qGN1c, a QTL for grain number per panicle, in rice ( <i>Oryza sativa</i> ). <i>Molecular Breeding</i> , 2019, 39, 1.	1.0	9
15	PagMYB216 is involved in the regulation of cellulose synthesis in <i>Populus</i> . <i>Molecular Breeding</i> , 2019, 39, 1.	1.0	10
16	Arabinosyl Deacetylase Modulates the Arabinoxylan Acetylation Profile and Secondary Wall Formation. <i>Plant Cell</i> , 2019, 31, 1113-1126.	3.1	60
17	Rice Homeobox Protein KNAT7 Integrates the Pathways Regulating Cell Expansion and Wall Stiffness. <i>Plant Physiology</i> , 2019, 181, 669-682.	2.3	44
18	Cell Wall Compositional Analysis of Rice Culms. <i>Bio-protocol</i> , 2019, 9, e3398.	0.2	2

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19	Xyloglucan Fucosylation Modulates Arabidopsis Cell Wall Hemicellulose Aluminium binding Capacity. <i>Scientific Reports</i> , 2018, 8, 428.	1.6	22
20	An Unconventional CCCH-Tandem Zinc-Finger Protein Represses Secondary Wall Synthesis and Controls Mechanical Strength in Rice. <i>Molecular Plant</i> , 2018, 11, 163-174.	3.9	51
21	Nanoscale Observation of Microfibril Swelling and Dissolution in Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 909-917.	3.2	18
22	The zinc finger protein DCM1 is required for male meiotic cytokinesis by preserving callose in rice. <i>PLoS Genetics</i> , 2018, 14, e1007769.	1.5	17
23	Sweet Sorghum Originated through Selection of <i>Dry</i> , a Plant-Specific NAC Transcription Factor Gene. <i>Plant Cell</i> , 2018, 30, 2286-2307.	3.1	55
24	A PECTIN METHYLESTERASE gene at the maize Ga1 locus confers male function in unilateral cross-incompatibility. <i>Nature Communications</i> , 2018, 9, 3678.	5.8	54
25	Rab1b is essential for trafficking of cellulose synthase and for hypocotyl growth in <i>Arabidopsis thaliana</i> . <i>Journal of Integrative Plant Biology</i> , 2018, 60, 1051-1069.	4.1	38
26	The Cellulose Synthases Are Cargo of the TPLATE Adaptor Complex. <i>Molecular Plant</i> , 2018, 11, 346-349.	3.9	51
27	Carbohydrate Composition Analysis in Xylem. <i>Methods in Molecular Biology</i> , 2017, 1544, 213-222.	0.4	7
28	Control of secondary cell wall patterning involves xylan deacetylation by a GDSL esterase. <i>Nature Plants</i> , 2017, 3, 17017.	4.7	98
29	Genetic connection between cell-wall composition and grain yield via parallel QTL analysis in indica and japonica subspecies. <i>Scientific Reports</i> , 2017, 7, 12561.	1.6	11
30	Two Complementary Mechanisms Underpin Cell Wall Patterning during Xylem Vessel Development. <i>Plant Cell</i> , 2017, 29, 2433-2449.	3.1	59
31	Low-Boron Tolerance Strategies Involving Pectin-Mediated Cell Wall Mechanical Properties in <i>Brassica napus</i> . <i>Plant and Cell Physiology</i> , 2017, 58, 1991-2005.	1.5	18
32	Two Trichome Birefringence-Like Proteins Mediate Xylan Acetylation, Which Is Essential for Leaf Blight Resistance in Rice. <i>Plant Physiology</i> , 2017, 173, 470-481.	2.3	94
33	Mechanical regulation of organ asymmetry in leaves. <i>Nature Plants</i> , 2017, 3, 724-733.	4.7	110
34	Phosphatidylserine Synthase Controls Cell Elongation Especially in the Uppermost Internode in Rice by Regulation of Exocytosis. <i>PLoS ONE</i> , 2016, 11, e0153119.	1.1	22
35	A Gibberellin-Mediated DELLA-NAC Signaling Cascade Regulates Cellulose Synthesis in Rice. <i>Plant Cell</i> , 2015, 27, 1681-1696.	3.1	233
36	Glycosyltransferase-like protein <i>ABI8/ELD1/KOB1</i> promotes <i>Arabidopsis</i> hypocotyl elongation through regulating cellulose biosynthesis. <i>Plant, Cell and Environment</i> , 2015, 38, 411-422.	2.8	16

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37	Mutation in xyloglucan 6-xylosyltransferase results in abnormal root hair development in <i>Oryza sativa</i> . <i>Journal of Experimental Botany</i> , 2014, 65, 4149-4157.	2.4	52
38	Retention of OsNMD3 in the cytoplasm disturbs protein synthesis efficiency and affects plant development in rice. <i>Journal of Experimental Botany</i> , 2014, 65, 3055-3069.	2.4	8
39	Natural variation of <i>Câ€repeatâ€binding factor</i> ( <i>&lt;sc&gt;CBF&lt;/sc&gt;</i> ) genes is a major cause of divergence in freezing tolerance among a group of <i>Arabidopsis thaliana</i> populations along the Yangtze River in China. <i>New Phytologist</i> , 2013, 199, 1069-1080.	3.5	60
40	Disruption of Secondary Wall Cellulose Biosynthesis Alters Cadmium Translocation and Tolerance in Rice Plants. <i>Molecular Plant</i> , 2013, 6, 768-780.	3.9	76
41	Brittle Culm1, a COBRA-Like Protein, Functions in Cellulose Assembly through Binding Cellulose Microfibrils. <i>PLoS Genetics</i> , 2013, 9, e1003704.	1.5	129
42	<i>Brittle Culm15</i> Encodes a Membrane-Associated Chitinase-Like Protein Required for Cellulose Biosynthesis in Rice. <i>Plant Physiology</i> , 2012, 159, 1440-1452.	2.3	76
43	Identification of Quantitative Trait Loci Affecting Hemicellulose Characteristics Based on Cell Wall Composition in a Wild and Cultivated Rice Species. <i>Molecular Plant</i> , 2012, 5, 162-175.	3.9	34
44	<i>MALE GAMETOPHYTE DEFECTIVE4</i> encodes a rhamnogalacturonanâ€xylosyltransferase and is important for growth of pollen tubes and roots in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2011, 65, 647-660.	2.8	60
45	Rice Brittleness Mutants: A Way to Open the "Black Box" of Monocot Cell Wall Biosynthesis Free Access. <i>Journal of Integrative Plant Biology</i> , 2011, 53, 136-142.	4.1	57
46	Increased Leaf Angle1, a Raf-Like MAPKKK That Interacts with a Nuclear Protein Family, Regulates Mechanical Tissue Formation in the Lamina Joint of Rice. <i>Plant Cell</i> , 2011, 23, 4334-4347.	3.1	123
47	Golgi-localized UDP-glucose transporter is required for cell wall integrity in rice. <i>Plant Signaling and Behavior</i> , 2011, 6, 1097-1100.	1.2	13
48	Golgi nucleotide sugar transporter modulates cell wall biosynthesis and plant growth in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5110-5115.	3.3	67
49	Brittleâ€Culmâ€12, a dualâ€targeting kinesinâ€4 protein, controls cellâ€cycle progression and wall properties in rice. <i>Plant Journal</i> , 2010, 63, 312-328.	2.8	114
50	The rice dynamin-related protein DRP2B mediates membrane trafficking, and thereby plays a critical role in secondary cell wall cellulose biosynthesis. <i>Plant Journal</i> , 2010, 64, no-no.	2.8	70
51	Rice plants response to the disruption of OsCSLD4 gene. <i>Plant Signaling and Behavior</i> , 2010, 5, 136-139.	1.2	2
52	Membrane trafficking mediated by OsDRP2B is specific for cellulose biosynthesis. <i>Plant Signaling and Behavior</i> , 2010, 5, 1483-1486.	1.2	5
53	A missense mutation in the transmembrane domain of CESA4 affects protein abundance in the plasma membrane and results in abnormal cell wall biosynthesis in rice. <i>Plant Molecular Biology</i> , 2009, 71, 509-524.	2.0	114
54	BC10, a DUF266â€containing and Golgiâ€located type II membrane protein, is required for cellâ€wall biosynthesis in rice ( <i>Oryza sativa</i> L.). <i>Plant Journal</i> , 2009, 57, 446-462.	2.8	109

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55	Rice cellulose synthase-like D4 is essential for normal cell-wall biosynthesis and plant growth. <i>Plant Journal</i> , 2009, 60, 1055-1069.	2.8	159
56	BRITTLE CULM1, Which Encodes a COBRA-Like Protein, Affects the Mechanical Properties of Rice Plants. <i>Plant Cell</i> , 2003, 15, 2020-2031.	3.1	369
57	Microdissection of a single chromosome and construction of the microclone library from soybean. <i>Euphytica</i> , 2001, 121, 129-135.	0.6	8
58	Introduction of pokeweed antiviral protein cDNA into <i>Brassica napus</i> and acquisition of transgenic plants resistant to viruses. <i>Science Bulletin</i> , 1999, 44, 701-704.	1.7	5
59	Microdissection and microcloning of rye ( <i>Secale cereale</i> L.) chromosome 1R. <i>Chromosoma</i> , 1999, 108, 250-255.	1.0	40
60	Chromosome microdissection by laser microbeam, chromosomal fragment isolation and amplification <i>in vitro</i> in barley ( <i>Hordeum vulgare</i> L.). <i>Science Bulletin</i> , 1998, 43, 851-855.	1.7	4
61	Construction of single-chromosome DNA library from <i>Lilium regale</i> Wilson. <i>Science Bulletin</i> , 1998, 43, 434-439.	1.7	8