Yi-Hua Zhou

List of Publications by Year
in descending order

61	3,365	136950	149698
papers	citations	32 h-index	56 g-index

76	76	76	3895
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Xylan-based nanocompartments orchestrate plant vessel wall patterning. Nature Plants, 2022, 8, 295-306.	9.3	23
2	RiceSTOMATAL CYTOKINESIS DEFECTIVE2regulates cell expansion by affecting vesicular trafficking in rice. Plant Physiology, 2022, 189, 567-584.	4.8	7
3	The transcription factor ZmMYB69 represses lignin biosynthesis by activating ZmMYB31/42 expression in maize. Plant Physiology, 2022, 189, 1916-1919.	4.8	11
4	A solid-state nanopore-based single-molecule approach for label-free characterization of plant polysaccharides. Plant Communications, 2021, 2, 100106.	7.7	23
5	The plant cell wall: Biosynthesis, construction, and functions. Journal of Integrative Plant Biology, 2021, 63, 251-272.	8.5	182
6	Formyl tetrahydrofolate deformylase affects hydrogen peroxide accumulation and leaf senescence by regulating the folate status and redox homeostasis in rice. Science China Life Sciences, 2021, 64, 720-738.	4.9	9
7	Functional understanding of secondary cell wall cellulose synthases in Populustrichocarpa via the Cas9/gRNAâ€induced gene knockouts. New Phytologist, 2021, 231, 1478-1495.	7.3	26
8	Galactosylation of rhamnogalacturonan-II for cell wall pectin biosynthesis is critical for root apoplastic iron reallocation in Arabidopsis. Molecular Plant, 2021, 14, 1640-1651.	8.3	13
9	Solid-state NMR of unlabeled plant cell walls: high-resolution structural analysis without isotopic enrichment. Biotechnology for Biofuels, 2021, 14, 14.	6.2	32
10	MYB61 is regulated by GRF4 and promotes nitrogen utilization and biomass production in rice. Nature Communications, 2020, 11, 5219.	12.8	61
11	UDPâ€Api/UDPâ€Xyl synthases affect plant development by controlling the content of UDPâ€Api to regulate the RGâ€Iâ€borate complex. Plant Journal, 2020, 104, 252-267.	5.7	12
12	DROOPY LEAF1 controls leaf architecture by orchestrating early brassinosteroid signaling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21766-21774.	7.1	39
13	Phenylpropanoid Derivatives Are Essential Components of Sporopollenin in Vascular Plants. Molecular Plant, 2020, 13, 1644-1653.	8.3	66
14	Identification and fine mapping of qGN1c, a QTL for grain number per panicle, in rice (Oryza sativa). Molecular Breeding, 2019, 39, 1.	2.1	9
15	PagMYB216 is involved in the regulation of cellulose synthesis in Populus. Molecular Breeding, 2019, 39, 1.	2.1	10
16	Arabinosyl Deacetylase Modulates the Arabinoxylan Acetylation Profile and Secondary Wall Formation. Plant Cell, 2019, 31, 1113-1126.	6.6	60
17	Rice Homeobox Protein KNAT7 Integrates the Pathways Regulating Cell Expansion and Wall Stiffness. Plant Physiology, 2019, 181, 669-682.	4.8	44
18	Cell Wall Compositional Analysis of Rice Culms. Bio-protocol, 2019, 9, e3398.	0.4	2

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19	Xyloglucan Fucosylation Modulates Arabidopsis Cell Wall Hemicellulose Aluminium binding Capacity. Scientific Reports, 2018, 8, 428.	3.3	22
20	An Uncanonical CCCH-Tandem Zinc-Finger Protein Represses Secondary Wall Synthesis and Controls Mechanical Strength in Rice. Molecular Plant, 2018, 11, 163-174.	8.3	51
21	Nanoscale Observation of Microfibril Swelling and Dissolution in Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2018, 6, 909-917.	6.7	18
22	The zinc finger protein DCM1 is required for male meiotic cytokinesis by preserving callose in rice. PLoS Genetics, 2018, 14, e1007769.	3.5	17
23	Sweet Sorghum Originated through Selection of Dry, a Plant-Specific NAC Transcription Factor Gene. Plant Cell, 2018, 30, 2286-2307.	6.6	55
24	A PECTIN METHYLESTERASE gene at the maize Ga1 locus confers male function in unilateral cross-incompatibility. Nature Communications, 2018, 9, 3678.	12.8	54
25	Rabâ€H1b is essential for trafficking of cellulose synthase and for hypocotyl growth in Arabidopsis thaliana. Journal of Integrative Plant Biology, 2018, 60, 1051-1069.	8.5	38
26	The Cellulose Synthases Are Cargo of the TPLATE Adaptor Complex. Molecular Plant, 2018, 11, 346-349.	8.3	51
27	Carbohydrate Composition Analysis in Xylem. Methods in Molecular Biology, 2017, 1544, 213-222.	0.9	7
28	Control of secondary cell wall patterning involves xylan deacetylation by a GDSL esterase. Nature Plants, 2017, 3, 17017.	9.3	98
29	Genetic connection between cell-wall composition and grain yield via parallel QTL analysis in indica and japonica subspecies. Scientific Reports, 2017, 7, 12561.	3.3	11
30	Two Complementary Mechanisms Underpin Cell Wall Patterning during Xylem Vessel Development. Plant Cell, 2017, 29, 2433-2449.	6.6	59
31	Low-Boron Tolerance Strategies Involving Pectin-Mediated Cell Wall Mechanical Properties in Brassica napus. Plant and Cell Physiology, 2017, 58, 1991-2005.	3.1	18
32	Two Trichome Birefringence-Like Proteins Mediate Xylan Acetylation, Which Is Essential for Leaf Blight Resistance in Rice. Plant Physiology, 2017, 173, 470-481.	4.8	94
33	Mechanical regulation of organ asymmetry in leaves. Nature Plants, 2017, 3, 724-733.	9.3	110
34	Phosphatidylserine Synthase Controls Cell Elongation Especially in the Uppermost Internode in Rice by Regulation of Exocytosis. PLoS ONE, 2016, 11, e0153119.	2.5	22
35	A Gibberellin-Mediated DELLA-NAC Signaling Cascade Regulates Cellulose Synthesis in Rice. Plant Cell, 2015, 27, 1681-1696.	6.6	233
36	Glycosyltransferaseâ€like protein <scp>ABI</scp>8/<scp>ELD</scp>1/<scp>KOB</scp>1 promotes <scp>A</scp>rabidopsis hypocotyl elongation through regulating cellulose biosynthesis. Plant, Cell and Environment, 2015, 38, 411-422.	5.7	16

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37	Mutation in xyloglucan 6-xylosytransferase results in abnormal root hair development in Oryza sativa. Journal of Experimental Botany, 2014, 65, 4149-4157.	4.8	52
38	Retention of OsNMD3 in the cytoplasm disturbs protein synthesis efficiency and affects plant development in rice. Journal of Experimental Botany, 2014, 65, 3055-3069.	4.8	8
39	Natural variation of Câ€repeatâ€binding factor (<scp>CBF</scp>s) genes is a major cause of divergence in freezing tolerance among a group of Arabidopsis thaliana populations along the Yangtze River in China. New Phytologist, 2013, 199, 1069-1080.	7.3	60
40	Disruption of Secondary Wall Cellulose Biosynthesis Alters Cadmium Translocation and Tolerance in Rice Plants. Molecular Plant, 2013, 6, 768-780.	8.3	76
41	Brittle Culm1, a COBRA-Like Protein, Functions in Cellulose Assembly through Binding Cellulose Microfibrils. PLoS Genetics, 2013, 9, e1003704.	3.5	129
42	Brittle Culm15 Encodes a Membrane-Associated Chitinase-Like Protein Required for Cellulose Biosynthesis in Rice Â Â Â. Plant Physiology, 2012, 159, 1440-1452.	4.8	76
43	Identification of Quantitative Trait Loci Affecting Hemicellulose Characteristics Based on Cell Wall Composition in a Wild and Cultivated Rice Species. Molecular Plant, 2012, 5, 162-175.	8.3	34
44	MALE GAMETOPHYTE DEFECTIVEâ€f4 encodes a rhamnogalacturonanâ€fII xylosyltransferase and is important for growth of pollen tubes and roots in Arabidopsis. Plant Journal, 2011, 65, 647-660.	5.7	60
45	Rice Brittleness Mutants: A Way to Open the â€˜Black Boxâ€™ of Monocot Cell Wall BiosynthesisFree Access. Journal of Integrative Plant Biology, 2011, 53, 136-142.	8.5	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 Â. Plant Cell, 2011, 23, 4334-4347.	6.6	123
47	Golgi-localized UDP-glucose transporter is required for cell wall integrity in rice. Plant Signaling and Behavior, 2011, 6, 1097-1100.	2.4	13
48	Golgi nucleotide sugar transporter modulates cell wall biosynthesis and plant growth in rice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5110-5115.	7.1	67
49	Brittleâ€fCulmâ€f12, a dualâ€targeting kinesinâ€4 protein, controls cellâ€cycle progression and wall properties in rice. Plant Journal, 2010, 63, 312-328.	5.7	114
50	The rice dynamin-related protein DRP2B mediates membrane trafficking, and thereby plays a critical role in secondary cell wall cellulose biosynthesis. Plant Journal, 2010, 64, no-no.	5.7	70
51	Rice plants response to the disruption ofOsCSLD4gene. Plant Signaling and Behavior, 2010, 5, 136-139.	2.4	2
52	Membrane trafficking mediated by OsDRP2B is specific for cellulose biosynthesis. Plant Signaling and Behavior, 2010, 5, 1483-1486.	2.4	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. Plant Molecular Biology, 2009, 71, 509-524.	3.9	114
54	BC10, a DUF266â€containing and Golgiâ€located type II membrane protein, is required for cellâ€wall biosynthesis in rice (Oryza sativa L.). Plant Journal, 2009, 57, 446-462.	5.7	109

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55	Rice cellulose synthaseâ€like D4 is essential for normal cellâ€wall biosynthesis and plant growth. Plant Journal, 2009, 60, 1055-1069.	5.7	159
56	BRITTLE CULM1, Which Encodes a COBRA-Like Protein, Affects the Mechanical Properties of Rice Plants. Plant Cell, 2003, 15, 2020-2031.	6.6	369
57	Microdissection of a single chromosome and construction of the microclone library from soybean. Euphytica, 2001, 121, 129-135.	1.2	8
58	Introduction of pokeweed antiviral protein cDNA intoBrassica napus and acquisition of transgenic plants resistant to viruses. Science Bulletin, 1999, 44, 701-704.	1.7	5
59	Microdissection and microcloning of rye (Secale cereale L.) chromosome 1R. Chromosoma, 1999, 108, 250-255.	2.2	40
60	Chromosome microdissection by laser microbeam, chromosomal fragment isolation and amplificationin vitro in barley (Hordeum vulgare L.). Science Bulletin, 1998, 43, 851-855.	1.7	4
61	Construction of single-chromosome DNA library fromLilium regale Wilson. Science Bulletin, 1998, 43, 434-439.	1.7	8