Li Tan

List of Publications by Year in descending order

31 papers	2,210 citations	394421 19 h-index	454955 30 g-index
34 all docs	34 docs citations	34 times ranked	2325 citing authors

#	Article	IF	Citations
1	An Arabidopsis Cell Wall Proteoglycan Consists of Pectin and Arabinoxylan Covalently Linked to an Arabinogalactan Protein. Plant Cell, 2013, 25, 270-287.	6.6	409
2	Self-assembly of the plant cell wall requires an extensin scaffold. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2226-2231.	7.1	259
3	Structure of a Hydroxyproline (Hyp)-Arabinogalactan Polysaccharide from Repetitive Ala-Hyp Expressed in Transgenic Nicotiana tabacum. Journal of Biological Chemistry, 2004, 279, 13156-13165.	3.4	137
4	Sugar release and growth of biofuel crops are improved by downregulation of pectin biosynthesis. Nature Biotechnology, 2018, 36, 249-257.	17.5	136
5	Arabinogalactan-proteins and the research challenges for these enigmatic plant cell surface proteoglycans. Frontiers in Plant Science, 2012, 3, 140.	3.6	135
6	Glycosylation Motifs That Direct Arabinogalactan Addition to Arabinogalactan-Proteins. Plant Physiology, 2003, 132, 1362-1369.	4.8	134
7	Di-isodityrosine Is the Intermolecular Cross-link of Isodityrosine-rich Extensin Analogs Cross-linked in Vitro. Journal of Biological Chemistry, 2004, 279, 55474-55482.	3.4	102
8	Plant O-Hydroxyproline Arabinogalactans Are Composed of Repeating Trigalactosyl Subunits with Short Bifurcated Side Chains. Journal of Biological Chemistry, 2010, 285, 24575-24583.	3.4	98
9	High-yields and extended serum half-life of human interferon Î±2b expressed in tobacco cells as arabinogalactan-protein fusions. Biotechnology and Bioengineering, 2007, 97, 997-1008.	3.3	93
10	The O-Hyp glycosylation code in tobacco and Arabidopsis and a proposed role of Hyp-glycans in secretion. Phytochemistry, 2008, 69, 1631-1640.	2.9	83
11	Tomato LeAGP-1 arabinogalactan-protein purified from transgenic tobacco corroborates the Hyp contiguity hypothesis. Plant Journal, 2002, 31, 431-444.	5.7	77
12	Human growth hormone expressed in tobacco cells as an arabinogalactan-protein fusion glycoprotein has a prolonged serum life. Transgenic Research, 2010, 19, 849-867.	2.4	72
13	KDELâ€tailed cysteine endopeptidases involved in programmed cell death, intercalation of new cells, and dismantling of extensin scaffolds. American Journal of Botany, 2008, 95, 1049-1062.	1.7	66
14	Nanospherical arabinogalactan proteins are a key component of the high-strength adhesive secreted by English ivy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3193-202.	7.1	62
15	Loss of Arabidopsis GAUT12/IRX8 causes anther indehiscence and leads to reduced G lignin associated with altered matrix polysaccharide deposition. Frontiers in Plant Science, 2014, 5, 357.	3.6	50
16	Pollen tube growth and guidance: Occam's razor sharpened on a molecular arabinogalactan glycoprotein Rosetta Stone. New Phytologist, 2018, 217, 491-500.	7.3	49
17	Working towards recalcitrance mechanisms: increased xylan and homogalacturonan production by overexpression of GAlactUronosylTransferase12 (GAUT12) causes increased recalcitrance and decreased growth in Populus. Biotechnology for Biofuels, 2018, 11, 9.	6.2	31
18	Identification and Characterization of in Vitro Galactosyltransferase Activities Involved in Arabinogalactan-Protein Glycosylation in Tobacco and Arabidopsis Â Â. Plant Physiology, 2010, 154, 632-642.	4.8	30

#	Article	IF	Citations
19	Comparison of four glycosyl residue composition methods for effectiveness in detecting sugars from cell walls of dicot and grass tissues. Biotechnology for Biofuels, 2017, 10, 182.	6.2	22
20	Arabinosylation Plays a Crucial Role in Extensin Cross-linking In Vitro. Biochemistry Insights, 2015, 8s2, BCI.S31353.	3.3	21
21	Extensins: Self-Assembly, Crosslinking, and the Role of Peroxidases. Frontiers in Plant Science, 2021, 12, 664738.	3.6	21
22	The Role of the Primary Cell Wall in Plant Morphogenesis. International Journal of Molecular Sciences, 2018, 19, 2674.	4.1	19
23	Intermolecular interactions between glycomodules of plant cell wall arabinogalactan-proteins and extensins. Cell Surface, 2018, 1, 25-33.	3.0	17
24	Multiple Arabidopsis galacturonosyltransferases synthesize polymeric homogalacturonan by oligosaccharide acceptorâ€dependent or de novo synthesis. Plant Journal, 2022, 109, 1441-1456.	5.7	14
25	Phyllotaxis Turns Over a New Leafâ€”A New Hypothesis. International Journal of Molecular Sciences, 2020, 21, 1145.	4.1	10
26	A Molecular Pinball Machine of the Plasma Membrane Regulates Plant Growthâ€”A New Paradigm. Cells, 2021, 10, 1935.	4.1	9
27	Changes in Cell Wall Properties Coincide with Overexpression of Extensin Fusion Proteins in Suspension Cultured Tobacco Cells. PLoS ONE, 2014, 9, e115906.	2.5	9
28	Aggregate structure of hydroxyproline-rich glycoprotein (HRGP) and HRGP assisted dispersion of carbon nanotubes. Nanoscale Research Letters, 2006, 1, 154-159.	5.7	6
29	Structural Proteins of the Primary Cell Wall: Extraction, Purification, and Analysis. Methods in Molecular Biology, 2011, 715, 209-219.	0.9	6
30	Extensins at the front line of plant defence. A commentary on: â€˜Extensin arabinosylation is involved in root response to elicitors and limits oomycete colonizationâ€™. Annals of Botany, 2020, 125, vii-viii.	2.9	5
31	Synthesis of the plant cell wallËˆs most complex glycan: pectin â€•surprises in glycosyltransferase processing and anchoring in the Golgi. FASEB Journal, 2012, 26, 349.3.	0.5	2