

# Chaowen Xiao

## List of Publications by Year in descending order

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19  
papers

1,034  
citations

759233

12  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1331  
citing authors

#	ARTICLE	IF	CITATIONS
1	POLYGALACTURONASE INVOLVED IN EXPANSION1 Functions in Cell Elongation and Flower Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 1018-1035.	6.6	160
2	Xyloglucan Deficiency Disrupts Microtubule Stability and Cellulose Biosynthesis in <i>Arabidopsis</i> , Altering Cell Growth and Morphogenesis. <i>Plant Physiology</i> , 2016, 170, 234-249.	4.8	143
3	Roles of pectin in biomass yield and processing for biofuels. <i>Frontiers in Plant Science</i> , 2013, 4, 67.	3.6	122
4	POLYGALACTURONASE INVOLVED IN EXPANSION3 Functions in Seedling Development, Rosette Growth, and Stomatal Dynamics in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2017, 29, 2413-2432.	6.6	117
5	Biotechnological production of astaxanthin from the microalga <i>Haematococcus pluvialis</i> . <i>Biotechnology Advances</i> , 2020, 43, 107602.	11.7	107
6	Mutations in the Pectin Methyltransferase QUASIMODO2 Influence Cellulose Biosynthesis and Wall Integrity in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 3576-3597.	6.6	72
7	Effects of Pectin Molecular Weight Changes on the Structure, Dynamics, and Polysaccharide Interactions of Primary Cell Walls of <i>Arabidopsis thaliana</i> : Insights from Solid-State NMR. <i>Biomacromolecules</i> , 2017, 18, 2937-2950.	5.4	69
8	Dynamics of pectic homogalacturonan in cellular morphogenesis and adhesion, wall integrity sensing and plant development. <i>Nature Plants</i> , 2022, 8, 332-340.	9.3	63
9	Activation tagging of <i>Arabidopsis</i> <i>POLYGALACTURONASE INVOLVED IN EXPANSION2</i> promotes hypocotyl elongation, leaf expansion, stem lignification, mechanical stiffening, and lodging. <i>Plant Journal</i> , 2017, 89, 1159-1173.	5.7	55
10	The Coix Genome Provides Insights into Panicoideae Evolution and Papery Hull Domestication. <i>Molecular Plant</i> , 2020, 13, 309-320.	8.3	28
11	Computational and genetic evidence that different structural conformations of a non-catalytic region affect the function of plant cellulose synthase. <i>Journal of Experimental Botany</i> , 2014, 65, 6645-6653.	4.8	24
12	A pectin methyltransferase modulates polysaccharide dynamics and interactions in <i>Arabidopsis</i> primary cell walls: Evidence from solid-state NMR. <i>Carbohydrate Polymers</i> , 2021, 270, 118370.	10.2	23
13	DNA repair- and nucleotide metabolism-related genes exhibit differential CHG methylation patterns in natural and synthetic polyploids ( <i>Brassica napus</i> L.). <i>Horticulture Research</i> , 2021, 8, 142.	6.3	12
14	Interconnections between cell wall polymers, wall mechanics, and cortical microtubules: Teasing out causes and consequences. <i>Plant Signaling and Behavior</i> , 2016, 11, e1215396.	2.4	10
15	Overexpression of a pectin methyltransferase gene <i>PtoPME35</i> from <i>Populus tomentosa</i> influences stomatal function and drought tolerance in <i>Arabidopsis thaliana</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 416-422.	2.1	10
16	Reduced pectin content of cell walls prevents stress-induced root cell elongation in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 1073-1084.	4.8	10
17	Rapid and Synchronous Breeding of Cytoplasmic Male Sterile and Maintainer Line Through Mitochondrial DNA Rearrangement Using Doubled Haploid Inducer in <i>Brassica napus</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 871006.	3.6	3
18	The Root Hair Development of Pectin Polygalacturonase PGX2 Activation Tagging Line in Response to Phosphate Deficiency. <i>Frontiers in Plant Science</i> , 2022, 13, 862171.	3.6	2

#	ARTICLE	IF	CITATIONS
19	Pectin methyltransferase QUASIMODO2 functions in the formation of seed coat mucilage in Arabidopsis. <i>Journal of Plant Physiology</i> , 2022, 274, 153709.	3.5	2