

Hai Lu

List of Publications by Year in descending order

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papers

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759055

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#	ARTICLE	IF	CITATIONS
1	The Cysteine Protease CEP1, a Key Executor Involved in Tapetal Programmed Cell Death, Regulates Pollen Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2939-2961.	3.1	187
2	Exon skipping of AGAMOUS homolog PrseAG in developing double flowers of <i>Prunus lannesiana</i> (Rosaceae). <i>Plant Cell Reports</i> , 2013, 32, 227-237.	2.8	79
3	MYB Transcription Factors and Its Regulation in Secondary Cell Wall Formation and Lignin Biosynthesis during Xylem Development. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3560.	1.8	74
4	The papain-like cysteine protease CEP1 is involved in programmed cell death and secondary wall thickening during xylem development in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 205-215.	2.4	40
5	NtCP56, a new cysteine protease in <i>Nicotiana tabacum</i> L., involved in pollen grain development. <i>Journal of Experimental Botany</i> , 2009, 60, 1569-1577.	2.4	31
6	Î²VPE is involved in tapetal degradation and pollen development by activating proprotease maturation in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2020, 71, 1943-1955.	2.4	28
7	Sense-, antisense- and RNAi-4CL1 regulate soluble phenolic acids, cell wall components and growth in transgenic <i>Populus tomentosa</i> Carr.. <i>Plant Physiology and Biochemistry</i> , 2013, 65, 111-119.	2.8	24
8	Divergent and Overlapping Function of Five 4-Coumarate/Coenzyme A Ligases from <i>Populus tomentosa</i> . <i>Plant Molecular Biology Reporter</i> , 2015, 33, 841-854.	1.0	20
9	Stable and specific expression of 4-coumarate:coenzyme A ligase gene (4CL1) driven by the xylem-specific Pto4CL1 promoter in the transgenic tobacco. <i>Biotechnology Letters</i> , 2004, 26, 1147-1152.	1.1	18
10	Fatty acid desaturases (FADs) modulate multiple lipid metabolism pathways to improve plant resistance. <i>Molecular Biology Reports</i> , 2022, 49, 9997-10011.	1.0	17
11	PtomtAPX is an autonomous lignification peroxidase during the earliest stage of secondary wall formation in <i>Populus tomentosa</i> Carr. <i>Nature Plants</i> , 2022, 8, 828-839.	4.7	16
12	Xylem-specific expression of a GRP1.8 promoter::4CL gene construct in transgenic tobacco. <i>Plant Growth Regulation</i> , 2003, 41, 279-286.	1.8	13
13	Heterologous expression and characterization of a proxidomal ascorbate peroxidase from <i>Populus tomentosa</i> . <i>Molecular Biology Reports</i> , 2009, 36, 21-27.	1.0	12
14	Identifying a Cinnamoyl Coenzyme A Reductase (CCR) Activity with 4-Coumaric Acid: Coenzyme A Ligase (4CL) Reaction Products in <i>Populus tomentosa</i> . <i>Journal of Plant Biology</i> , 2009, 52, 482-491.	0.9	12
15	Analysis of the spatial and temporal expression pattern directed by the <i>Populus tomentosa</i> 4-coumarate:CoA ligase Pto4CL2 promoter in transgenic tobacco. <i>Molecular Biology Reports</i> , 2013, 40, 2309-2317.	1.0	12
16	Î³VPE plays an important role in programmed cell death for xylem fiber cells by activating protease CEP1 maturation in <i>Arabidopsis thaliana</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 137, 703-711.	3.6	12
17	The trafficking machinery of lytic and protein storage vacuoles: how much is shared and how much is distinct?. <i>Journal of Experimental Botany</i> , 2021, 72, 3504-3512.	2.4	12
18	Chloroplast Thylakoidal Ascorbate Peroxidase, PtotAPX, Has Enhanced Resistance to Oxidative Stress in <i>Populus tomentosa</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 3340.	1.8	12

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19	Unraveling the impact of Pto4CL1 regulation on the cell wall components and wood properties of perennial transgenic <i>Populus tomentosa</i> . <i>Plant Physiology and Biochemistry</i> , 2019, 139, 672-680.	2.8	11
20	PtomtAPX, a mitochondrial ascorbate peroxidase, plays an important role in maintaining the redox balance of <i>Populus tomentosa</i> Carr. <i>Scientific Reports</i> , 2019, 9, 19541.	1.6	11
21	PtLAC16 plays a key role in catalyzing lignin polymerization in the xylem cell wall of <i>Populus</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 188, 983-992.	3.6	11
22	MYB2 Is Important for Tapetal PCD and Pollen Development by Directly Activating Protease Expression in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 3563.	1.8	10
23	Identification of superior clones by RAPD technology in <i>Xanthoceras sorbifolia</i> Bge.. <i>Forestry Studies in China</i> , 2010, 12, 37-40.	0.4	9
24	Overexpression of artificially fused bifunctional enzyme 4CL1â€“CCR: a method for production of secreted 4-hydroxycinnamaldehydes in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2015, 14, 118.	1.9	9
25	Somatic embryogenesis and histological analysis from zygotic embryos in <i>Vitis vinifera</i> L. â€“Moldovaâ€™™. <i>Forestry Studies in China</i> , 2008, 10, 253-258.	0.4	7
26	Chloroplast thylakoid ascorbate peroxidase PtotAPX plays a key role in chloroplast development by decreasing hydrogen peroxide in <i>Populus tomentosa</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 4333-4354.	2.4	7
27	Cloning and analysis of telomere-associated sequences of <i>Ginkgo biloba</i> L.. <i>Forestry Studies in China</i> , 2005, 7, 7-10.	0.4	6
28	High-level expression of 4-coumarate:coenzyme A ligase gene Pt4CL1 of <i>Populus tomentosa</i> in <i>E. coli</i> . <i>Forestry Studies in China</i> , 2007, 9, 208-212.	0.4	6
29	Histone Deacetylase HDT1 is Involved in Stem Vascular Development in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 3452.	1.8	6
30	How Cysteine Protease Gene PtCP5 Affects Seed Germination by Mobilizing Storage Proteins in <i>Populus trichocarpa</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 12637.	1.8	4
31	Improving sample preparation to investigate lignin intensity of xylem at the cellular level by confocal Raman microspectroscopy of <i>Populus tomentosa</i> . <i>Journal of Forestry Research</i> , 2020, 32, 2135.	1.7	3
32	Effects of Temperature, Scarification, Stratification, Phytohormones, and After-Ripening on the Dormancy and Germination of <i>Eucommia ulmoides</i> Oliv. Seeds. <i>Forests</i> , 2021, 12, 1593.	0.9	3
33	Dynamic changes of telomeric restriction fragment (TRF) lengths in cells during the developmental process from embryos to seedlings and a comparison with the embryonal calli in <i>Ginkgo biloba</i> L.. <i>Forestry Studies in China</i> , 2007, 9, 127-131.	0.4	2
34	Cloning and analysis of a new 4CL-like gene in <i>Populus tomentosa</i> . <i>Forest Science and Practice</i> , 2013, 15, 98-104.	0.2	2
35	Transcriptome Profile Analysis Reveals the Regulation Mechanism of Stamen Abortion in <i>Handeliodendron bodinieri</i> . <i>Forests</i> , 2021, 12, 1071.	0.9	2
36	Integrated Transcriptomic and Proteomic Analysis in the Roadmap of the Xylem Development Stage in <i>Populus tomentosa</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 724559.	1.7	2

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37	Enzymatic characterization of two acetyl-CoA synthetase genes from <i>Populus trichocarpa</i> . SpringerPlus, 2016, 5, 818.	1.2	1
38	Single-stranded DNA-binding proteins in plant telomeres. International Journal of Biological Macromolecules, 2020, 165, 1463-1467.	3.6	1
39	Protection of telomeres 1 (POT1) of <i>Pinus tabuliformis</i> bound the telomere ssDNA. Tree Physiology, 2020, 40, 119-127.	1.4	1