Lionel Verdoucq

List of Publications by Year
in descending order

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22 papers	3,500 citations	516561 16 h-index	677027 22 g-index
23 all docs	23 docs citations	23 times ranked	4031 citing authors

#	Article	IF	Citations
1	Plant Aquaporins: Membrane Channels with Multiple Integrated Functions. Annual Review of Plant Biology, 2008, 59, 595-624.	8.6	1,071
2	Aquaporins in Plants. Physiological Reviews, 2015, 95, 1321-1358.	13.1	658
3	Aquaporins facilitate hydrogen peroxide entry into guard cells to mediate ABA- and pathogen-triggered stomatal closure. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9200-9205.	3.3	281
4	Aquaporins Contribute to ABA-Triggered Stomatal Closure through OST1-Mediated Phosphorylation. Plant Cell, 2015, 27, 1945-1954.	3.1	261
5	In Vivo Characterization of a Thioredoxin h Target Protein Defines a New Peroxiredoxin Family. Journal of Biological Chemistry, 1999, 274, 19714-19722.	1.6	213
6	Structureâ€“function analysis of plant aquaporin AtPIP2;1 gating by divalent cations and protons. Biochemical Journal, 2008, 415, 409-416.	1.7	148
7	The cellular dynamics of plant aquaporin expression and functions. Current Opinion in Plant Biology, 2009, 12, 690-698.	3.5	136
8	In vivo functional discrimination between plant thioredoxins by heterologous expression in the yeast Saccharomyces cerevisiae. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3312-3317.	3.3	118
9	Structural Determinants of Substrate Specificity in Family 1 Î²-Glucosidases. Journal of Biological Chemistry, 2004, 279, 31796-31803.	1.6	118
10	Aquaporins and plant transpiration. Plant, Cell and Environment, 2016, 39, 2580-2587.	2.8	101
11	Methylation of aquaporins in plant plasma membrane. Biochemical Journal, 2006, 400, 189-197.	1.7	76
12	Plant thioredoxins and glutaredoxins: identity and putative roles. Trends in Plant Science, 1999, 4, 388-394.	4.3	75
13	Mutational and Structural Analysis of Aglycone Specificity in Maize and Sorghum Î²-Glucosidases. Journal of Biological Chemistry, 2003, 278, 25055-25062.	1.6	67
14	Characterization of Determinants for the Specificity ofArabidopsis Thioredoxins h in Yeast Complementation. Journal of Biological Chemistry, 2000, 275, 31641-31647.	1.6	45
15	Plant aquaporins on the move: reversible phosphorylation, lateral motion and cycling. Current Opinion in Plant Biology, 2014, 22, 101-107.	3.5	45
16	Characterization of the Yeast Peroxiredoxin Ahp1 in Its Reduced Active and Overoxidized Inactive Forms Using NMRâ€. Biochemistry, 2003, 42, 14139-14149.	1.2	37
17	Hormonal and environmental signaling pathways target membrane water transport. Plant Physiology, 2021, 187, 2056-2070.	2.3	18
18	Plant Aquaporins. Advances in Botanical Research, 2018, 87, 25-56.	0.5	11

#	Article	IF	Citations
19	Aquaporins in Plants: From Molecular Structure to Integrated Functions. Advances in Botanical Research, 2007, , 75-136.	0.5	9
20	Root Membrane Ubiquitinome under Short-Term Osmotic Stress. International Journal of Molecular Sciences, 2022, 23, 1956.	1.8	7
21	GENOMIQUE ET LIPIDES GÃ©nomique et mÃ©tabolisme des lipides des plantes. Oleagineux Corps Gras Lipides, 2002, 9, 130-134.	0.2	3
22	Letter to the Editor:1H,13C and15N backbone resonance assignments of the dimeric yeast peroxiredoxin YLR109w. Journal of Biomolecular NMR, 2004, 28, 95-96.	1.6	2