

Christophe Dunand

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

7,711
citations

40
h-index

87
g-index

103
ext. papers

9,524
ext. citations

8.1
avg, IF

5.91
L-index

#	Paper	IF	Citations
92	Peroxidases have more functions than a Swiss army knife. <i>Plant Cell Reports</i> , 2005 , 24, 255-65	5.1	659
91	Performing the paradoxical: how plant peroxidases modify the cell wall. <i>Trends in Plant Science</i> , 2004 , 9, 534-40	13.1	584
90	The genome of <i>Eucalyptus grandis</i> . <i>Nature</i> , 2014 , 510, 356-62	50.4	497
89	A burst of plant NADPH oxidases. <i>Trends in Plant Science</i> , 2012 , 17, 9-15	13.1	478
88	Distribution of superoxide and hydrogen peroxide in <i>Arabidopsis</i> root and their influence on root development: possible interaction with peroxidases. <i>New Phytologist</i> , 2007 , 174, 332-341	9.8	359
87	Glutathione peroxidase family - an evolutionary overview. <i>FEBS Journal</i> , 2008 , 275, 3959-70	5.7	291
86	The class III peroxidase multigenic family in rice and its evolution in land plants. <i>Phytochemistry</i> , 2004 , 65, 1879-93	4	279
85	Specific functions of individual class III peroxidase genes. <i>Journal of Experimental Botany</i> , 2009 , 60, 391-408	4	275
84	Primary transcripts of microRNAs encode regulatory peptides. <i>Nature</i> , 2015 , 520, 90-3	50.4	263
83	The MUR3 gene of <i>Arabidopsis</i> encodes a xyloglucan galactosyltransferase that is evolutionarily related to animal exostosins. <i>Plant Cell</i> , 2003 , 15, 1662-70	11.6	245
82	Reactive oxygen species during plant-microorganism early interactions. <i>Journal of Integrative Plant Biology</i> , 2010 , 52, 195-204	8.3	227
81	The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. <i>Cell</i> , 2018 , 174, 448-464.e24	56.2	213
80	Origin of strigolactones in the green lineage. <i>New Phytologist</i> , 2012 , 195, 857-871	9.8	204
79	Algal ancestor of land plants was preadapted for symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13390-5	11.5	197
78	Insight into trade-off between wood decay and parasitism from the genome of a fungal forest pathogen. <i>New Phytologist</i> , 2012 , 194, 1001-1013	9.8	168
77	PeroxiBase: the peroxidase database. <i>Phytochemistry</i> , 2007 , 68, 1605-11	4	159
76	Roles of cell wall peroxidases in plant development. <i>Phytochemistry</i> , 2015 , 112, 15-21	4	158

75	Two cell wall associated peroxidases from Arabidopsis influence root elongation. <i>Planta</i> , 2006 , 223, 965-74	7.4	129
74	PeroxiBase: a database for large-scale evolutionary analysis of peroxidases. <i>Nucleic Acids Research</i> , 2013 , 41, D441-4	20.1	121
73	The peroxidase-cyclooxygenase superfamily: Reconstructed evolution of critical enzymes of the innate immune system. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 72, 589-605	4.2	119
72	PeroxiBase: a database with new tools for peroxidase family classification. <i>Nucleic Acids Research</i> , 2009 , 37, D261-6	20.1	118
71	Molecular link between auxin and ROS-mediated polar growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5289-5294	11.5	107
70	Expression analysis of the Arabidopsis peroxidase multigenic family. <i>Phytochemistry</i> , 2004 , 65, 1331-42	4	106
69	CaM and CML emergence in the green lineage. <i>Trends in Plant Science</i> , 2015 , 20, 483-9	13.1	96
68	Large-scale genome sequencing of mycorrhizal fungi provides insights into the early evolution of symbiotic traits. <i>Nature Communications</i> , 2020 , 11, 5125	17.4	86
67	Waving and skewing: how gravity and the surface of growth media affect root development in Arabidopsis. <i>New Phytologist</i> , 2007 , 176, 37-43	9.8	84
66	Prokaryotic origins of the non-animal peroxidase superfamily and organelle-mediated transmission to eukaryotes. <i>Genomics</i> , 2007 , 89, 567-79	4.3	84
65	Phylogenetic distribution of catalase-peroxidases: are there patches of order in chaos?. <i>Gene</i> , 2007 , 397, 101-13	3.8	69
64	Arabidopsis seed mucilage secretory cells: regulation and dynamics. <i>Trends in Plant Science</i> , 2015 , 20, 515-24	13.1	61
63	PeroxiBase: a class III plant peroxidase database. <i>Phytochemistry</i> , 2006 , 67, 534-9	4	60
62	Evolution and expression of class III peroxidases. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 500, 58-65	7.1	55
61	Identification of a hydrogen peroxide signalling pathway in the control of light-dependent germination in Arabidopsis. <i>Planta</i> , 2013 , 238, 381-95	4.7	53
60	Plant photoreceptors: phylogenetic overview. <i>Journal of Molecular Evolution</i> , 2005 , 61, 559-69	3.1	53
59	Effects of low temperature plasmas and plasma activated waters on Arabidopsis thaliana germination and growth. <i>PLoS ONE</i> , 2018 , 13, e0195512	3.7	53
58	Cell growth and differentiation in Arabidopsis epidermal cells. <i>Journal of Experimental Botany</i> , 2007 , 58, 3829-40	7	52

57	The class III peroxidase PRX17 is a direct target of the MADS-box transcription factor AGAMOUS-LIKE15 (AGL15) and participates in lignified tissue formation. <i>New Phytologist</i> , 2017 , 213, 250-263	9.8	49
56	RedoxiBase: A database for ROS homeostasis regulated proteins. <i>Redox Biology</i> , 2019 , 26, 101247	11.3	44
55	Ascorbate peroxidase-related (APx-R) is a new heme-containing protein functionally associated with ascorbate peroxidase but evolutionarily divergent. <i>New Phytologist</i> , 2011 , 191, 234-250	9.8	43
54	Patterning of Arabidopsis epidermal cells: epigenetic factors regulate the complex epidermal cell fate pathway. <i>Trends in Plant Science</i> , 2006 , 11, 601-9	13.1	41
53	The Arabidopsis Class III Peroxidase AtPRX71 Negatively Regulates Growth under Physiological Conditions and in Response to Cell Wall Damage. <i>Plant Physiology</i> , 2015 , 169, 2513-25	6.6	40
52	Molecular and biochemical aspects of plant terrestrialization. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2012 , 14, 49-59	3	40
51	Purification and identification of a Ca(2+)-pectate binding peroxidase from Arabidopsis leaves. <i>Phytochemistry</i> , 2004 , 65, 307-12	4	40
50	Arabidopsis thaliana root cell wall proteomics: Increasing the proteome coverage using a combinatorial peptide ligand library and description of unexpected Hyp in peroxidase amino acid sequences. <i>Proteomics</i> , 2016 , 16, 491-503	4.8	38
49	Transcriptome analysis of various flower and silique development stages indicates a set of class III peroxidase genes potentially involved in pod shattering in Arabidopsis thaliana. <i>BMC Genomics</i> , 2010 , 11, 528	4.5	36
48	An anionic class III peroxidase from zucchini may regulate hypocotyl elongation through its auxin oxidase activity. <i>Planta</i> , 2009 , 229, 823-36	4.7	35
47	PeroxiBase: a powerful tool to collect and analyse peroxidase sequences from Viridiplantae. <i>Journal of Experimental Botany</i> , 2009 , 60, 453-9	7	33
46	Identification and characterisation of Ca ²⁺ -pectate binding peroxidases in Arabidopsis thaliana. <i>Journal of Plant Physiology</i> , 2002 , 159, 1165-1171	3.6	31
45	Morphological and physiological traits of three major Arabidopsis thaliana accessions. <i>Journal of Plant Physiology</i> , 2007 , 164, 980-92	3.6	30
44	Reconstructing trait evolution in plant evo-devo studies. <i>Current Biology</i> , 2019 , 29, R1110-R1118	6.3	29
43	Genome-wide characterization and expression profiling of the AUXIN RESPONSE FACTOR (ARF) gene family in Eucalyptus grandis. <i>PLoS ONE</i> , 2014 , 9, e108906	3.7	27
42	Genome-wide analysis of the AP2/ERF family in Eucalyptus grandis: an intriguing over-representation of stress-responsive DREB1/CBF genes. <i>PLoS ONE</i> , 2015 , 10, e0121041	3.7	26
41	Pectin Demethylesterification Generates Platforms that Anchor Peroxidases to Remodel Plant Cell Wall Domains. <i>Developmental Cell</i> , 2019 , 48, 261-276.e8	10.2	25
40	New insights of low-temperature plasma effects on germination of three genotypes of Arabidopsis thaliana seeds under osmotic and saline stresses. <i>Scientific Reports</i> , 2019 , 9, 8649	4.9	23

39	Explosive tandem and segmental duplications of multigenic families in <i>Eucalyptus grandis</i> . <i>Genome Biology and Evolution</i> , 2015 , 7, 1068-81	3.9	23
38	Cell wall proteome analysis of <i>Arabidopsis thaliana</i> mature stems. <i>Proteomics</i> , 2017 , 17, 1600449	4.8	22
37	An enlarged cell wall proteome of <i>Arabidopsis thaliana</i> rosettes. <i>Proteomics</i> , 2016 , 16, 3183-3187	4.8	22
36	GECA: a fast tool for gene evolution and conservation analysis in eukaryotic protein families. <i>Bioinformatics</i> , 2012 , 28, 1398-9	7.2	21
35	Automatic multigenic family annotation: risks and solutions. <i>Trends in Genetics</i> , 2014 , 30, 323-5	8.5	19
34	Expression of a peroxidase gene in zucchini in relation with hypocotyl growth. <i>Plant Physiology and Biochemistry</i> , 2003 , 41, 805-811	5.4	17
33	Highlighting reactive oxygen species as multitaskers in root development. <i>iScience</i> , 2021 , 24, 101978	6.1	17
32	Complementarity of medium-throughput in situ RNA hybridization and tissue-specific transcriptomics: case study of <i>Arabidopsis</i> seed development kinetics. <i>Scientific Reports</i> , 2016 , 6, 24644	4.9	14
31	Cell wall modifications of two <i>Arabidopsis thaliana</i> ecotypes, Col and Sha, in response to sub-optimal growth conditions: An integrative study. <i>Plant Science</i> , 2017 , 263, 183-193	5.3	12
30	Expression of PRX36, PME16 and SBT1.7 is controlled by complex transcription factor regulatory networks for proper seed coat mucilage extrusion. <i>Plant Signaling and Behavior</i> , 2014 , 9, e977734	2.5	12
29	Localization of superoxide in the root apex of <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2007 , 2, 131-2	2.5	12
28	Divergent evolutionary lines of fungal cytochrome c peroxidases belonging to the superfamily of bacterial, fungal and plant heme peroxidases. <i>FEBS Letters</i> , 2006 , 580, 6655-64	3.8	12
27	Characterization of the binding of alpha-L-Fuc (1-->2)-beta-D-Gal (1-->), a xyloglucan signal, in blackberry protoplasts. <i>Plant Science</i> , 2000 , 151, 183-192	5.3	12
26	Ascorbate peroxidase-related (APx-R) is not a duplicable gene. <i>Plant Signaling and Behavior</i> , 2011 , 6, 1908-13	2.5	11
25	Seed mucilage evolution: Diverse molecular mechanisms generate versatile ecological functions for particular environments. <i>Plant, Cell and Environment</i> , 2020 , 43, 2857-2870	8.4	9
24	Proline Hydroxylation in Cell Wall Proteins: Is It Yet Possible to Define Rules?. <i>Frontiers in Plant Science</i> , 2017 , 8, 1802	6.2	8
23	Transcriptomic and cell wall proteomic datasets of rosettes and floral stems from five ecotypes grown at optimal or sub-optimal temperature. <i>Data in Brief</i> , 2019 , 27, 104581	1.2	7
22	CsPrx25, a class III peroxidase in <i>Citrus sinensis</i> , confers resistance to citrus bacterial canker through the maintenance of ROS homeostasis and cell wall lignification. <i>Horticulture Research</i> , 2020 , 7, 192	7.7	7

21	Coordination of five class III peroxidase-encoding genes for early germination events of <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2020 , 298, 110565	5.3	7
20	Phenotypic Trait Variation as a Response to Altitude-Related Constraints in <i>Arabidopsis</i> Populations. <i>Frontiers in Plant Science</i> , 2019 , 10, 430	6.2	6
19	Global analysis of non-animal peroxidases provides insights into the evolution of this gene family in the green lineage. <i>Journal of Experimental Botany</i> , 2020 , 71, 3350-3360	7	6
18	In silico definition of new ligninolytic peroxidase sub-classes in fungi and putative relation to fungal life style. <i>Scientific Reports</i> , 2019 , 9, 20373	4.9	6
17	Phenotyping and cell wall polysaccharide composition dataset of five <i>Arabidopsis</i> ecotypes grown at optimal or sub-optimal temperatures. <i>Data in Brief</i> , 2019 , 25, 104318	1.2	5
16	Transfection of DNA from bacteria to human cells in culture: a possible role in oncogenesis. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1022, 195-201	6.5	5
15	Class III peroxidases PRX01, PRX44, and PRX73 potentially target extensins during root hair growth in <i>Arabidopsis thaliana</i>		5
14	An integrative Study Showing the Adaptation to Sub-Optimal Growth Conditions of Natural Populations of : A Focus on Cell Wall Changes. <i>Cells</i> , 2020 , 9,	7.9	4
13	The Class III Peroxidase Encoding Gene Positively and Spatiotemporally Regulates the Low pH-Induced Cell Death in Roots. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
12	APETALA3-nuclease hybrid protein: a potential tool for APETALA3 target gene mutagenesis. <i>Plant Science</i> , 1999 , 148, 19-30	5.3	2
11	Ethylene Signaling Causing Tolerance of <i>Arabidopsis thaliana</i> Roots to Low pH Stress is Linked to Class III Peroxidase Activity. <i>Journal of Plant Growth Regulation</i> , 2021 , 40, 116-125	4.7	2
10	A powerful framework for an integrative study with heterogeneous omics data: from univariate statistics to multi-block analysis. <i>Briefings in Bioinformatics</i> , 2021 , 22,	13.4	2
9	Medium-Throughput RNA In Situ Hybridization of Serial Sections from Paraffin-Embedded Tissue Microarrays. <i>Methods in Molecular Biology</i> , 2019 , 1933, 99-130	1.4	1
8	Global Evolutionary Analysis of 11 Gene Families Part of Reactive Oxygen Species (ROS) Gene Network in Four Species. <i>Antioxidants</i> , 2020 , 9,	7.1	1
7	The Cell Wall PAC (Proline-Rich, Arabinogalactan Proteins, Conserved Cysteines) Domain-Proteins Are Conserved in the Green Lineage. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
6	Expression analysis of the <i>Arabidopsis</i> peroxidase multigenic family. <i>Phytochemistry</i> , 2004 , 65, 1331-1334		1
5	ExpressWeb: A Web application for clustering and visualization of expression data		1
4	Effects of Dielectric Barrier Ambient Air Plasma on Two Brassicaceae Seeds: and. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1

3	Apoplastic class III peroxidases PRX62 and PRX69 promote Arabidopsis root hair growth at low temperature.. <i>Nature Communications</i> , 2022 , 13, 1310	17.4	1
2	Class III Peroxidases PRX01, PRX44, and PRX73 Control Root Hair Growth in Arabidopsis thaliana. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5375	6.3	0
1	Automatic Prediction and Annotation: There Are Strong Biases for Multigenic Families. <i>Frontiers in Genetics</i> , 2021 , 12, 697477	4.5	