Florence Vignols

List of Publications by Year
in descending order

53 papers	3,447 citations	147801 31 h-index	168389 53 g-index
56 all docs	56 docs citations	56 times ranked	3852 citing authors

#	Article	IF	Citations
1	Thioredoxins and Glutaredoxins: Unifying Elements in Redox Biology. Annual Review of Genetics, 2009, 43, 335-367.	7.6	413
2	The brown midrib3 (bm3) mutation in maize occurs in the gene encoding caffeic acid O-methyltransferase.. Plant Cell, 1995, 7, 407-416.	6.6	331
3	In Vivo Characterization of a Thioredoxin h Target Protein Defines a New Peroxiredoxin Family. Journal of Biological Chemistry, 1999, 274, 19714-19722.	3.4	213
4	Thioredoxins inArabidopsis and other plants. Photosynthesis Research, 2005, 86, 419-433.	2.9	196
5	Glutaredoxins and thioredoxins in plants. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 589-600.	4.1	165
6	Spatial and temporal expression of a maize lipid transfer protein gene.. Plant Cell, 1991, 3, 923-933.	6.6	140
7	Classification of Plant Thioredoxins by Sequence Similarity and Intron Position. Methods in Enzymology, 2002, 347, 394-402.	1.0	120
8	The Transcription Factor bHLH121 Interacts with bHLH105 (ILR3) and Its Closest Homologs to Regulate Iron Homeostasis in Arabidopsis. Plant Cell, 2020, 32, 508-524.	6.6	111
9	Transcriptional integration of the responses to iron availability in Arabidopsis by the bHLH factor ILR3. New Phytologist, 2019, 223, 1433-1446.	7.3	92
10	Heat shockâ€induced biphasic Ca²⁺ signature and OsCaM1â€1 nuclear localization mediate downstream signalling in acquisition of thermotolerance in rice (<i>Oryza sativa</i> L.). Plant, Cell and Environment, 2012, 35, 1543-1557.	5.7	86
11	The Coumarins: Secondary Metabolites Playing a Primary Role in Plant Nutrition and Health. Trends in Plant Science, 2021, 26, 248-259.	8.8	80
12	<i>Arabidopsis thaliana</i> Nfu2 Accommodates [2Fe-2S] or [4Fe-4S] Clusters and Is Competent for <i>in Vitro</i> Maturation of Chloroplast [2Fe-2S] and [4Fe-4S] Cluster-Containing Proteins. Biochemistry, 2013, 52, 6633-6645.	2.5	77
13	Deletion of chloroplast NADPH-dependent thioredoxin reductase results in inability to regulate starch synthesis and causes stunted growth under short-day photoperiods. Journal of Experimental Botany, 2013, 64, 3843-3854.	4.8	76
14	Plant thioredoxins and glutaredoxins: identity and putative roles. Trends in Plant Science, 1999, 4, 388-394.	8.8	75
15	Characterization of a ribonuclease III-like protein required for cleavage of the pre-rRNA in the 3â€²ETS in Arabidopsis. Nucleic Acids Research, 2008, 36, 1163-1175.	14.5	73
16	A yeast two-hybrid knockout strain to explore thioredoxin-interacting proteins in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16729-16734.	7.1	70
17	Monothiol Glutaredoxinâ€"BolA Interactions: Redox Control of Arabidopsis thaliana BolA2 and SufE1. Molecular Plant, 2014, 7, 187-205.	8.3	70
18	Rice lipid transfer protein (LTP) genes belong to a complex multigene family and are differentially regulated. Gene, 1997, 195, 177-186.	2.2	66

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19	Direct Interaction Between the <i>Rice yellow mottle virus</i> (RYMV) VPg and the Central Domain of the Rice eIF(iso)4G1 Factor Correlates with Rice Susceptibility and RYMV Virulence. Molecular Plant-Microbe Interactions, 2010, 23, 1506-1513.	2.6	60
20	The rice yellow mottle virus P1 protein exhibits dual functions to suppress and activate gene silencing. Plant Journal, 2010, 61, 371-382.	5.7	58
21	Overexpression of chloroplast NADPH-dependent thioredoxin reductase in Arabidopsis enhances leaf growth and elucidates in vivo function of reductase and thioredoxin domains. Frontiers in Plant Science, 2013, 4, 389.	3.6	58
22	Characterization of a rice gene coding for a lipid transfer protein. Gene, 1994, 142, 265-270.	2.2	54
23	Redox Control of Hsp70-Co-chaperone Interaction Revealed by Expression of a Thioredoxin-like Arabidopsis Protein. Journal of Biological Chemistry, 2003, 278, 4516-4523.	3.4	54
24	Inducibility by pathogen attack and developmental regulation of the rice Ltp1 gene. Plant Molecular Biology, 2002, 49, 679-695.	3.9	51
25	Evolution of redoxin genes in the green lineage. Photosynthesis Research, 2006, 89, 179-192.	2.9	48
26	Self-protection of cytosolic malate dehydrogenase against oxidative stress in Arabidopsis. Journal of Experimental Botany, 2018, 69, 3491-3505.	4.8	48
27	The maize caffeic acid O-methyltransferase gene promoter is active in transgenic tobacco and maize plant tissues. Plant Molecular Biology, 1996, 31, 307-322.	3.9	46
28	Identification of <scp>CROWN ROOTLESS</scp>1â€regulated genes in rice reveals specific and conserved elements of postembryonic root formation. New Phytologist, 2015, 206, 243-254.	7.3	43
29	Historical Contingencies Modulate the Adaptability of Rice Yellow Mottle Virus. PLoS Pathogens, 2012, 8, e1002482.	4.7	41
30	PsTRXh1 and PsTRXh2 Are Both Pea h-Type Thioredoxins with Antagonistic Behavior in Redox Imbalances. Plant Physiology, 2007, 143, 300-311.	4.8	35
31	Characterisation of maize peroxidases having differential patterns of mRNA accumulation in relation to lignifying tissues. Gene, 2003, 309, 23-33.	2.2	32
32	Multiple mRNA coding for phospholipid-transfer protein from Zea mays arise from alternative splicing. Gene, 1991, 99, 133-136.	2.2	31
33	Involvement of a maize proline-rich protein in secondary cell wall formation as deduced from its specific mRNA localization. Plant Molecular Biology, 1999, 39, 945-952.	3.9	31
34	AtCXXS: atypical members of the Arabidopsis thaliana thioredoxin h family with a remarkably high disulfide isomerase activity. Physiologia Plantarum, 2008, 133, 611-622.	5.2	30
35	Immunocytochemical localization of Pisum sativum TRXs f and m in non-photosynthetic tissues. Journal of Experimental Botany, 2008, 59, 1267-1277.	4.8	30
36	AtNUFIP, an essential protein for plant development, reveals the impact of snoRNA gene organisation on the assembly of snoRNPs and rRNA methylation in <i>Arabidopsis thaliana</i>. Plant Journal, 2011, 65, 807-819.	5.7	25

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37	Ironâ€"sulfur protein NFU2 is required for branched-chain amino acid synthesis in Arabidopsis roots. Journal of Experimental Botany, 2019, 70, 1875-1889.	4.8	25
38	Identification of client ironâ€"sulfur proteins of the chloroplastic NFU2 transfer protein in Arabidopsis thaliana. Journal of Experimental Botany, 2020, 71, 4171-4187.	4.8	25
39	Glutathioneâ€•and glutaredoxinâ€dependent reduction of methionine sulfoxide reductase A. FEBS Letters, 2012, 586, 3894-3899.	2.8	24
40	The RYMV-Encoded Viral Suppressor of RNA Silencing P1 Is a Zinc-Binding Protein with Redox-Dependent Flexibility. Journal of Molecular Biology, 2013, 425, 2423-2435.	4.2	23
41	The plastidial Arabidopsis thaliana NFU1 protein binds and delivers [4Fe-4S] clusters to specific client proteins. Journal of Biological Chemistry, 2020, 295, 1727-1742.	3.4	20
42	Is There a Role for Glutaredoxins and BOLAs in the Perception of the Cellular Iron Status in Plants?. Frontiers in Plant Science, 2019, 10, 712.	3.6	19
43	Thioredoxins and glutaredoxins in development. Plant Science, 2010, 178, 420-423.	3.6	16
44	The Arabidopsis Mitochondrial Glutaredoxin GRXS15 Provides [2Fe-2S] Clusters for ISCA-Mediated [4Fe-4S] Cluster Maturation. International Journal of Molecular Sciences, 2020, 21, 9237.	4.1	12
45	[4Fe-4S] cluster trafficking mediated by Arabidopsis mitochondrial ISCA and NFU proteins. Journal of Biological Chemistry, 2020, 295, 18367-18378.	3.4	11
46	The Mi-EFF1/Minc17998 effector interacts with the soybean GmHub6 protein to promote host plant parasitism by Meloidogyne incognita. Physiological and Molecular Plant Pathology, 2021, 114, 101630.	2.5	8
47	Thioredoxin and Redox Control within the New Concept of Oxidative Signaling. Plant Signaling and Behavior, 2007, 2, 426-427.	2.4	7
48	Minc00344 and Mj-NULG1a effectors interact with GmHub10 protein to promote the soybean parasitism by Meloidogyne incognita and M. javanica. Experimental Parasitology, 2021, 229, 108153.	1.2	7
49	Protein lipoylation in mitochondria requires Fe-S cluster assembly factors NFU4 and NFU5. Plant Physiology, 2021, , .	4.8	7
50	A Flexible and Original Architecture of Two Unrelated Zinc Fingers Underlies the Role of the Multitask P1 in RYMV Spread. Journal of Molecular Biology, 2022, 434, 167715.	4.2	6
51	A Global Proteomic Approach Sheds New Light on Potential Iron-Sulfur Client Proteins of the Chloroplastic Maturation Factor NFU3. International Journal of Molecular Sciences, 2020, 21, 8121.	4.1	5
52	Temperature Stress and Redox Homeostasis: The Synergistic Network of Redox and Chaperone System in Response to Stress in Plants. Heat Shock Proteins, 2019, , 53-90.	0.2	1
53	NMR chemical shift backbone assignment of the viral protein P1 encoded by the African Rice Yellow Mottle Virus. Biomolecular NMR Assignments, 2019, 13, 345-348.	0.8	0