Emmanuelle Issakidis-Bourguet

List of Publications by Year
in descending order

46 papers	3,883 citations	117571 34 h-index	233338 45 g-index
46 all docs	46 docs citations	46 times ranked	3447 citing authors

#	Article	IF	Citations
1	Conditional oxidative stress responses in the Arabidopsis photorespiratory mutant cat2 demonstrate that redox state is a key modulator of daylengthâ€dependent gene expression, and define photoperiod as a crucial factor in the regulation of H₂O₂â€induced cell death. Plant Journal, 2007, 52, 640-657.	2.8	394
2	Arabidopsis GLUTATHIONE REDUCTASE1 Plays a Crucial Role in Leaf Responses to Intracellular Hydrogen Peroxide and in Ensuring Appropriate Gene Expression through Both Salicylic Acid and Jasmonic Acid Signaling Pathways Â Â Â. Plant Physiology, 2010, 153, 1144-1160.	2.3	328
3	The Arabidopsis Plastidial Thioredoxins. Journal of Biological Chemistry, 2003, 278, 23747-23752.	1.6	307
4	Thioredoxins in chloroplasts. Current Genetics, 2007, 51, 343-365.	0.8	195
5	New targets of Arabidopsis thioredoxins revealed by proteomic analysis. Proteomics, 2004, 4, 2696-2706.	1.3	191
6	Characterization of Plastidial Thioredoxins from Arabidopsis Belonging to the New y-Type. Plant Physiology, 2004, 136, 4088-4095.	2.3	182
7	Thioredoxin-regulated Î²-amylase (BAM1) triggers diurnal starch degradation in guard cells, and in mesophyll cells under osmotic stress. Journal of Experimental Botany, 2011, 62, 545-555.	2.4	182
8	Peroxiredoxin Q ofArabidopsis thalianais attached to the thylakoids and functions in context of photosynthesisâ€. Plant Journal, 2006, 45, 968-981.	2.8	165
9	Prompt and Easy Activation by Specific Thioredoxins of Calvin Cycle Enzymes of Arabidopsis thaliana Associated in the GAPDH/CP12/PRK Supramolecular Complex. Molecular Plant, 2009, 2, 259-269.	3.9	136
10	Thioredoxins Play a Crucial Role in Dynamic Acclimation of Photosynthesis in Fluctuating Light. Molecular Plant, 2017, 10, 168-182.	3.9	102
11	Thioredoxins, glutaredoxins, and glutathionylation: new crosstalks to explore. Photosynthesis Research, 2006, 89, 225-245.	1.6	101
12	Redox regulation of chloroplastic glucoseâ€6â€phosphate dehydrogenase: A new role for fâ€type thioredoxin. FEBS Letters, 2009, 583, 2827-2832.	1.3	100
13	Inactivation of thioredoxin f1 leads to decreased light activation of ADPâ€glucose pyrophosphorylase and altered diurnal starch turnover in leaves of Arabidopsis plants. Plant, Cell and Environment, 2013, 36, 16-29.	2.8	99
14	Structural Basis for Light Activation of a Chloroplast Enzyme:Â The Structure of Sorghum NADP-Malate Dehydrogenase in Its Oxidized Formâ€,â€¡. Biochemistry, 1999, 38, 4319-4326.	1.2	91
15	Specificity of thioredoxins and glutaredoxins as electron donors to two distinct classes of Arabidopsis plastidial methionine sulfoxide reductases B. FEBS Letters, 2007, 581, 4371-4376.	1.3	89
16	Arabidopsis thaliana AMY3 Is a Unique Redox-regulated Chloroplastic Î±-Amylase. Journal of Biological Chemistry, 2013, 288, 33620-33633.	1.6	79
17	Heavy-Metal Regulation of Thioredoxin Gene Expression inChlamydomonas reinhardtii. Plant Physiology, 1999, 120, 773-778.	2.3	77
18	Heterologous complementation of yeast reveals a new putative function for chloroplastâ€ƒm-type thioredoxin. Plant Journal, 2008, 25, 127-135.	2.8	74

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19	Cytosolic and Chloroplastic DHARs Cooperate in Oxidative Stress-Driven Activation of the Salicylic Acid Pathway. Plant Physiology, 2017, 174, 956-971.	2.3	72
20	Perspectives on the interactions between metabolism, redox, and epigenetics in plants. Journal of Experimental Botany, 2016, 67, 5291-5300.	2.4	61
21	Arabidopsis histone deacetylase <scp>HDA</scp>15 directly represses plant response to elevated ambient temperature. Plant Journal, 2019, 100, 991-1006.	2.8	60
22	Oxidationâ^'Reduction Properties of the Regulatory Disulfides of Sorghum Chloroplast Nicotinamide Adenine Dinucleotide Phosphateâ^'Malate Dehydrogenaseâ€. Biochemistry, 2000, 39, 3344-3350.	1.2	56
23	New insights into the reduction systems of plastidial thioredoxins point out the unique properties of thioredoxin z from Arabidopsis. Journal of Experimental Botany, 2012, 63, 6315-6323.	2.4	55
24	Thioredoxin targets in Arabidopsis roots. Proteomics, 2010, 10, 2418-2428.	1.3	53
25	NADP-Malate Dehydrogenase from Unicellular Green Alga Chlamydomonas reinhardtii. A First Step toward Redox Regulation?. Plant Physiology, 2005, 137, 514-521.	2.3	52
26	Putative role of the malate valve enzyme NADPâ€“malate dehydrogenase in H ₂ O ₂ signalling in Arabidopsis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130228.	1.8	50
27	Insight into the redox regulation of the phosphoglucan phosphatase SEX4 involved in starch degradation. FEBS Journal, 2013, 280, 538-548.	2.2	48
28	Involvement of thioredoxin y2 in the preservation of leaf methionine sulfoxide reductase capacity and growth under high light. Plant, Cell and Environment, 2013, 36, 670-682.	2.8	47
29	An Internal Cysteine Is Involved in the Thioredoxin-dependent Activation of Sorghum Leaf NADP-malate Dehydrogenase. Journal of Biological Chemistry, 1997, 272, 19851-19857.	1.6	45
30	Characterization of Arabidopsis Mutants for the Variable Subunit of Ferredoxin:thioredoxin Reductase. Photosynthesis Research, 2004, 79, 265-274.	1.6	43
31	The internal Cys-207 of sorghum leaf NADP-malate dehydrogenase can form mixed disulphides with thioredoxin. FEBS Letters, 1999, 444, 165-169.	1.3	41
32	The complex regulation of ferredoxin/thioredoxin-related genes by light and the circadian clock. Planta, 1999, 209, 221-229.	1.6	40
33	Functional Specialization of Chlamydomonas reinhardtii Cytosolic Thioredoxin h1 in the Response to Alkylation-Induced DNA Damage. Eukaryotic Cell, 2005, 4, 262-273.	3.4	37
34	Direct NMR Observation of the Thioredoxin-mediated Reduction of the Chloroplast NADP-malate Dehydrogenase Provides a Structural Basis for the Relief of Autoinhibition. Journal of Biological Chemistry, 1999, 274, 34539-34542.	1.6	35
35	Redox Regulation of Monodehydroascorbate Reductase by Thioredoxin y in Plastids Revealed in the Context of Water Stress. Antioxidants, 2018, 7, 183.	2.2	33
36	Overexpression of plastidial thioredoxins f and m differentially alters photosynthetic activity and response to oxidative stress in tobacco plants. Frontiers in Plant Science, 2013, 4, 390.	1.7	31

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37	Chlamydomonas reinhardtii: a model organism for the study of the thioredoxin family. Plant Physiology and Biochemistry, 2003, 41, 513-521.	2.8	30
38	Redox regulation of chloroplastic G6PDH activity by thioredoxin occurs through structural changes modifying substrate accessibility and cofactor binding. Biochemical Journal, 2014, 457, 117-125.	1.7	23
39	Metabolic control of histone demethylase activity involved in plant response to high temperature. Plant Physiology, 2021, 185, 1813-1828.	2.3	22
40	Sites of interaction of thioredoxin with sorghum NADP-malate dehydrogenase. FEBS Letters, 2001, 505, 405-408.	1.3	19
41	Integration and expression of Sorghum C4 phosphoenolpyruvate carboxylase and chloroplastic NADP+-malate dehydrogenase separately or together in C3 potato plants. Plant Science, 2001, 160, 1199-1210.	1.7	14
42	Transferring redox regulation properties from sorghum NADP-malate dehydrogenase to Thermus NAD-malate dehydrogenase. Photosynthesis Research, 2006, 89, 213-223.	1.6	9
43	A New Role for Plastid Thioredoxins in Seed Physiology in Relation to Hormone Regulation. International Journal of Molecular Sciences, 2021, 22, 10395.	1.8	7
44	Adenylates regulate Arabidopsis plastidial thioredoxin activities through the binding of a CBS domain protein. Plant Physiology, 2022, 189, 2298-2314.	2.3	6
45	A Simplified Method to Assay Protein Carbonylation by Spectrophotometry. Methods in Molecular Biology, 2022, , 135-141.	0.4	2
46	Scientific contributions of Pierre Gadal and his labâ€”A tribute to Pierre Gadal (1938â€“2019). Advances in Botanical Research, 2021, , 41-127.	0.5	0