

Pascal Rey

List of Publications by Year in descending order

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66
papers

4,608
citations

87888

38
h-index

102487

66
g-index

67
all docs

67
docs citations

67
times ranked

4257
citing authors

#	ARTICLE	IF	CITATIONS
1	Thiol Reductases in Deinococcus Bacteria and Roles in Stress Tolerance. <i>Antioxidants</i> , 2022, 11, 561.	5.1	4
2	Redox signaling through zinc activates the radiation response in Deinococcus bacteria. <i>Scientific Reports</i> , 2021, 11, 4528.	3.3	18
3	Plastidial and cytosolic thiol reductases participate in the control of stomatal functioning. <i>Plant, Cell and Environment</i> , 2021, 44, 1417-1435.	5.7	7
4	Contribution of functional genomics to identify the genetic basis of water deficit tolerance in barley and the related molecular mechanisms. <i>Journal of Agronomy and Crop Science</i> , 2021, 207, 913-935.	3.5	3
5	Involvement of the MetO/Msr System in Two Acer Species That Display Contrasting Characteristics during Germination. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9197.	4.1	3
6	Integration of MsrB1 and MsrB2 in the Redox Network during the Development of Orthodox and Recalcitrant Acer Seeds. <i>Antioxidants</i> , 2020, 9, 1250.	5.1	7
7	Peptide-Bound Methionine Sulfoxide (MetO) Levels and MsrB2 Abundance Are Differentially Regulated during the Desiccation Phase in Contrasted Acer Seeds. <i>Antioxidants</i> , 2020, 9, 391.	5.1	7
8	Is There a Role for Glutaredoxins and BOLAs in the Perception of the Cellular Iron Status in Plants?. <i>Frontiers in Plant Science</i> , 2019, 10, 712.	3.6	19
9	Variability in the redox status of plant 2-Cys peroxiredoxins in relation to species and light cycle. <i>Journal of Experimental Botany</i> , 2019, 70, 5003-5016.	4.8	9
10	Physiological Roles of Plant Methionine Sulfoxide Reductases in Redox Homeostasis and Signaling. <i>Antioxidants</i> , 2018, 7, 114.	5.1	65
11	<i>Solanum tuberosum</i> ZPR1 encodes a light-regulated nuclear DNA-binding protein adjusting the circadian expression of <i>StBBX24</i> to light cycle. <i>Plant, Cell and Environment</i> , 2017, 40, 424-440.	5.7	13
12	Involvement of <i>Arabidopsis</i> glutaredoxin S14 in the maintenance of chlorophyll content. <i>Plant, Cell and Environment</i> , 2017, 40, 2319-2332.	5.7	44
13	Physiological relevance of plant 2-Cys peroxiredoxin overoxidation level and oligomerization status. <i>Plant, Cell and Environment</i> , 2016, 39, 103-119.	5.7	21
14	Characterization of the <i>Arabidopsis thaliana</i> 2-Cys peroxiredoxin interactome. <i>Plant Science</i> , 2016, 252, 30-41.	3.6	43
15	Expression and characterization of a barley phosphatidylinositol transfer protein structurally homologous to the yeast Sec14p protein. <i>Plant Science</i> , 2016, 246, 98-111.	3.6	9
16	Involvement of thiol-based mechanisms in plant development. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1479-1496.	2.4	93
17	<i>Arabidopsis</i> Glutaredoxin S17 and Its Partner, the Nuclear Factor Y Subunit C11/Negative Cofactor 2 \pm , Contribute to Maintenance of the Shoot Apical Meristem under Long-Day Photoperiod. <i>Plant Physiology</i> , 2015, 167, 1643-1658.	4.8	78
18	Interplay between circadian rhythm, time of the day and osmotic stress constraints in the regulation of the expression of a <i>Solanum</i> Double B-box gene. <i>Annals of Botany</i> , 2014, 113, 831-842.	2.9	39

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19	Evidence for participation of the methionine sulfoxide reductase repair system in plant seed longevity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3633-3638.	7.1	97
20	A drought-sensitive barley variety displays oxidative stress and strongly increased contents in low-molecular weight antioxidant compounds during water deficit compared to a tolerant variety. <i>Journal of Plant Physiology</i> , 2013, 170, 633-645.	3.5	51
21	Overexpression of plastidial thioredoxins f and m differentially alters photosynthetic activity and response to oxidative stress in tobacco plants. <i>Frontiers in Plant Science</i> , 2013, 4, 390.	3.6	31
22	Involvement of thioredoxin y2 in the preservation of leaf methionine sulfoxide reductase capacity and growth under high light. <i>Plant, Cell and Environment</i> , 2013, 36, 670-682.	5.7	47
23	Thioredoxin m4 Controls Photosynthetic Alternative Electron Pathways in Arabidopsis. <i>Plant Physiology</i> , 2012, 161, 508-520.	4.8	100
24	Differential responses to salinity of two <i>Atriplex halimus</i> populations in relation to organic solutes and antioxidant systems involving thiol reductases. <i>Journal of Plant Physiology</i> , 2012, 169, 1445-1453.	3.5	25
25	Atypical Thioredoxins in Poplar: The Glutathione-Dependent Thioredoxin-Like 2.1 Supports the Activity of Target Enzymes Possessing a Single Redox Active Cysteine. <i>Plant Physiology</i> , 2012, 159, 592-605.	4.8	39
26	Affinity Chromatography: A Valuable Strategy to Isolate Substrates of Methionine Sulfoxide Reductases?. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 79-84.	5.4	33
27	<i>Arabidopsis thaliana</i> plastidial methionine sulfoxide reductases B, MSRBs, account for most leaf peptide MSR activity and are essential for growth under environmental constraints through a role in the preservation of photosystem antennae. <i>Plant Journal</i> , 2010, 61, 271-282.	5.7	75
28	Plant Thioredoxin CDSP32 Regenerates 1-Cys Methionine Sulfoxide Reductase B Activity through the Direct Reduction of Sulfenic Acid. <i>Journal of Biological Chemistry</i> , 2010, 285, 14964-14972.	3.4	66
29	Regeneration Mechanisms of <i>Arabidopsis thaliana</i> Methionine Sulfoxide Reductases B by Glutaredoxins and Thioredoxins. <i>Journal of Biological Chemistry</i> , 2009, 284, 18963-18971.	3.4	120
30	Protein-Repairing Methionine Sulfoxide Reductases in Photosynthetic Organisms: Gene Organization, Reduction Mechanisms, and Physiological Roles. <i>Molecular Plant</i> , 2009, 2, 202-217.	8.3	108
31	Vitamin E is essential for the tolerance of <i>Arabidopsis thaliana</i> to metal-induced oxidative stress. <i>Plant, Cell and Environment</i> , 2008, 31, 244-257.	5.7	167
32	Functional analysis and expression characteristics of chloroplastic Prx IIE. <i>Physiologia Plantarum</i> , 2008, 133, 599-610.	5.2	50
33	The organ-dependent abundance of a <i>Solanum</i> lipid transfer protein is up-regulated upon osmotic constraints and associated with cold acclimation ability. <i>Journal of Experimental Botany</i> , 2008, 59, 2191-2203.	4.8	24
34	Tocotrienols, the Unsaturated Forms of Vitamin E, Can Function as Antioxidants and Lipid Protectors in Tobacco Leaves. <i>Plant Physiology</i> , 2008, 147, 764-778.	4.8	71
35	Studies on the reducing systems for plant and animal thioredoxin-independent methionine sulfoxide reductases B. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 629-633.	2.1	26
36	Efficiency of biochemical protection against toxic effects of accumulated salt differentiates <i>Thellungiella halophila</i> from <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , 2007, 164, 375-384.	3.5	48

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37	Specificity of thioredoxins and glutaredoxins as electron donors to two distinct classes of Arabidopsis plastidial methionine sulfoxide reductases B. <i>FEBS Letters</i> , 2007, 581, 4371-4376.	2.8	89
38	The mitochondrial type II peroxiredoxin from poplar. <i>Physiologia Plantarum</i> , 2007, 129, 196-206.	5.2	49
39	The abundance of a single domain cyclophilin in Solanaceae is regulated as a function of organ type and high temperature and not by other environmental constraints. <i>Physiologia Plantarum</i> , 2007, 131, 387-398.	5.2	12
40	The Arabidopsis thaliana sulfiredoxin is a plastidic cysteine-sulfinic acid reductase involved in the photooxidative stress response. <i>Plant Journal</i> , 2007, 49, 505-514.	5.7	98
41	Plant thioredoxins are key actors in the oxidative stress response. <i>Trends in Plant Science</i> , 2006, 11, 329-334.	8.8	305
42	Plant Glutathione Peroxidases Are Functional Peroxiredoxins Distributed in Several Subcellular Compartments and Regulated during Biotic and Abiotic Stresses. <i>Plant Physiology</i> , 2006, 142, 1364-1379.	4.8	329
43	Plant methionine sulfoxide reductase A and B multigenic families. <i>Photosynthesis Research</i> , 2006, 89, 247-262.	2.9	123
44	Expression of SK3-type dehydrin in transporting organs is associated with cold acclimation in Solanum species. <i>Planta</i> , 2006, 224, 205-221.	3.2	77
45	The Arabidopsis Plastidic Methionine Sulfoxide Reductase B Proteins. Sequence and Activity Characteristics, Comparison of the Expression with Plastidic Methionine Sulfoxide Reductase A, and Induction by Photooxidative Stress. <i>Plant Physiology</i> , 2005, 138, 909-922.	4.8	154
46	Vitamin E Protects against Photoinhibition and Photooxidative Stress in Arabidopsis thaliana. <i>Plant Cell</i> , 2005, 17, 3451-3469.	6.6	446
47	Analysis of the proteins targeted by CDSP32, a plastidic thioredoxin participating in oxidative stress responses. <i>Plant Journal</i> , 2004, 41, 31-42.	5.7	143
48	Expression of KS-type dehydrins is primarily regulated by factors related to organ type and leaf developmental stage during vegetative growth. <i>Planta</i> , 2004, 218, 878-885.	3.2	60
49	Evidence for post-translational control in the expression of a gene encoding a plastidic thioredoxin during leaf development in Solanum tuberosum plants. <i>Plant Physiology and Biochemistry</i> , 2003, 41, 303-308.	5.8	12
50	Potato Plants Lacking the CDSP32 Plastidic Thioredoxin Exhibit Overoxidation of the BAS1 2-Cysteine Peroxiredoxin and Increased Lipid Peroxidation in Thylakoids under Photooxidative Stress. <i>Plant Physiology</i> , 2003, 132, 1335-1343.	4.8	105
51	The Plastidic 2-Cysteine Peroxiredoxin Is a Target for a Thioredoxin Involved in the Protection of the Photosynthetic Apparatus against Oxidative Damage. <i>Plant Cell</i> , 2002, 14, 1417-1432.	6.6	184
52	A novel thioredoxin-like protein located in the chloroplast is induced by water deficit in Solanum tuberosum L. plants. <i>Plant Journal</i> , 2002, 13, 97-107.	5.7	99
53	PSII-S gene expression, photosynthetic activity and abundance of plastid thioredoxin-related and lipid-associated proteins during chilling stress in Solanum species differing in freezing resistance. <i>Physiologia Plantarum</i> , 2001, 113, 72-78.	5.2	25
54	Accumulation of plastid lipid-associated proteins (fibrillin/CDSP34) upon oxidative stress, ageing and biotic stress in Solanaceae and in response to drought in other species. <i>Journal of Experimental Botany</i> , 2001, 52, 1545-1554.	4.8	98

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55	Over-expression of a pepper plastid lipid-associated protein in tobacco leads to changes in plastid ultrastructure and plant development upon stress. <i>Plant Journal</i> , 2000, 21, 483-494.	5.7	124
56	Involvement of CDSP 32, a drought-induced thioredoxin, in the response to oxidative stress in potato plants. <i>FEBS Letters</i> , 2000, 467, 245-248.	2.8	81
57	Immunocytolocalization of CDSP 32 and CDSP 34, two chloroplastic drought-induced stress proteins in <i>Solanum tuberosum</i> plants. <i>Plant Physiology and Biochemistry</i> , 1999, 37, 305-312.	5.8	42
58	Molecular characterization of CDSP 34, a chloroplastic protein induced by water deficit in <i>Solanum tuberosum</i> L. plants, and regulation of CDSP 34 expression by ABA and high illumination. <i>Plant Journal</i> , 1998, 16, 257-262.	5.7	85
59	Characterization of a novel drought-induced 34-kDa protein located in the thylakoids of <i>Solanum tuberosum</i> L. plants. <i>Planta</i> , 1996, 198, 471-479.	3.2	75
60	Effects of low temperature, high salinity and exogenous ABA on the synthesis of two chloroplastic drought-induced proteins in <i>Solanum tuberosum</i> . <i>Physiologia Plantarum</i> , 1996, 97, 123-131.	5.2	44
61	Effects of low temperature, high salinity and exogenous ABA on the synthesis of two chloroplastic drought-induced proteins in <i>Solanum tuberosum</i> . <i>Physiologia Plantarum</i> , 1996, 97, 123-131.	5.2	37
62	Cell-type specific expression of three rice genes GOS2, GOS5 and GOS9. <i>Plant Molecular Biology</i> , 1993, 23, 889-894.	3.9	6
63	Atrazine and diuron resistant plants from photoautotrophic protoplast-derived cultures of <i>Nicotiana plumbaginifolia</i> . <i>Plant Cell Reports</i> , 1990, 9, 241-4.	5.6	15
64	Effects of CO ₂ -Enrichment and of Aminoacetonitrile on Growth and Photosynthesis of Photoautotrophic Calli of <i>Nicotiana plumbaginifolia</i> . <i>Plant Physiology</i> , 1990, 93, 549-554.	4.8	9
65	Photorespiratory Properties of Mesophyll Protoplasts of <i>Nicotiana plumbaginifolia</i> . <i>Plant Physiology</i> , 1989, 89, 762-767.	4.8	12
66	Establishment and characterization of photoautotrophic protoplast-derived cultures of <i>Nicotiana plumbaginifolia</i> . <i>Plant Cell Reports</i> , 1989, 8, 234-237.	5.6	9