Christine Foyer

List of Publications by Year in Descending Order

215 papers	34,517 citations	78 h-index	185 g-index
238 ext. papers	39,377 ext. citations	7.6 avg, IF	7.84 L-index

#	Paper	IF	Citations
215	Abiotic stress and adaptation of electron transport: Regulation of the production and processing of ROS signals in chloroplasts **2022**, 85-102		1
214	Nuclear and peroxisomal targeting of catalase.. *Plant, Cell and Environment*, **2022**,	8.4	4
213	The bud dormancy disconnect: latent buds of grapevine are dormant during summer despite a high metabolic rate.. *Journal of Experimental Botany*, **2022**,	7	2
212	Photosynthetic quantum efficiency in south-eastern Amazonian trees may be already affected by climate change. *Plant, Cell and Environment*, **2021**, 44, 2428-2439	8.4	7
211	Oxygen and reactive oxygen species-dependent regulation of plant growth and development. *Plant Physiology*, **2021**, 186, 79-92	6.6	19
210	Crosstalk between Brassinosteroid and Redox Signaling Contributes to the Activation of CBF Expression during Cold Responses in Tomato. *Antioxidants*, **2021**, 10,	7.1	7
209	The protein kinase CPK28 phosphorylates ascorbate peroxidase and enhances thermotolerance in tomato. *Plant Physiology*, **2021**, 186, 1302-1317	6.6	9
208	Papain-like cysteine proteases are required for the regulation of photosynthetic gene expression and acclimation to high light stress. *Journal of Experimental Botany*, **2021**, 72, 3441-3454	7	1
207	Brassinosteroid signaling integrates multiple pathways to release apical dominance in tomato. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	9
206	The phyB-dependent induction of HY5 promotes iron uptake by systemically activating FER expression. *EMBO Reports*, **2021**, 22, e51944	6.5	8
205	Gaining Acceptance of Novel Plant Breeding Technologies. *Trends in Plant Science*, **2021**, 26, 575-587	13.1	12
204	Stress effects on the reactive oxygen species-dependent regulation of plant growth and development. *Journal of Experimental Botany*, **2021**, 72, 5795-5806	7	6
203	The coordination of guard-cell autonomous ABA synthesis and DES1 function regulates plant water deficit responses. *Journal of Advanced Research*, **2021**, 27, 191-197	13	12
202	High CO - and pathogen-driven expression of the carbonic anhydrase βCA3 confers basal immunity in tomato. *New Phytologist*, **2021**, 229, 2827-2843	9.8	5
201	Ethylene response factors 15 and 16 trigger jasmonate biosynthesis in tomato during herbivore resistance. *Plant Physiology*, **2021**, 185, 1182-1197	6.6	9
200	Redox control of flowering. *Nature Chemical Biology*, **2021**, 17, 504-505	11.7	0
199	The power of the phytoglobin-NO cycle in the regulation of nodulation and symbiotic nitrogen fixation. *New Phytologist*, **2020**, 227, 5-7	9.8	1

198	Persulfidation-based Modification of Cysteine Desulfhydrase and the NADPH Oxidase RBOHD Controls Guard Cell Abscisic Acid Signaling. *Plant Cell*, **2020**, 32, 1000-1017	11.6	84
197	Innovative plant breeding could deliver crop revolution. *Nature*, **2020**, 577, 622	50.4	3
196	Redox Homeostasis and Signaling in a Higher-CO World. *Annual Review of Plant Biology*, **2020**, 71, 157-182	30.7	25
195	Catalase, glutathione, and protein phosphatase 2A-dependent organellar redox signalling regulate aphid fecundity under moderate and high irradiance. *Plant, Cell and Environment*, **2020**, 43, 209-222	8.4	7
194	Vitamin C in Plants: Novel Concepts, New Perspectives, and Outstanding Issues. *Antioxidants and Redox Signaling*, **2020**, 32, 463-485	8.4	39
193	Brassinosteroid-mediated reactive oxygen species are essential for tapetum degradation and pollen fertility in tomato. *Plant Journal*, **2020**, 102, 931-947	6.9	22
192	On the move: redox-dependent protein relocation in plants. *Journal of Experimental Botany*, **2020**, 71, 620-631	7	29
191	Defining biotechnological solutions for insect control in sub-Saharan Africa. *Food and Energy Security*, **2020**, 9, e191	4.1	8
190	New insights into Arabidopsis transcriptome complexity revealed by direct sequencing of native RNAs. *Nucleic Acids Research*, **2020**, 48, 7700-7711	20.1	23
189	Sensing and signalling in plant stress responses: ensuring sustainable food security in an era of climate change. *New Phytologist*, **2020**, 228, 823-827	9.8	4
188	Factors facilitating sustainable scientific partnerships between developed and developing countries. *Outlook on Agriculture*, **2020**, 49, 204-214	2.9	2
187	Glutathione redox state plays a key role in flower development and pollen vigour. *Journal of Experimental Botany*, **2020**, 71, 730-741	7	14
186	Heat-Induced Oxidation of the Nuclei and Cytosol. *Frontiers in Plant Science*, **2020**, 11, 617779	6.2	7
185	Systemic Root-Shoot Signaling Drives Jasmonate-Based Root Defense against Nematodes. *Current Biology*, **2019**, 29, 3430-3438.e4	6.3	43
184	Analysis of Redox Relationships in the Plant Cell Cycle: Determination of Ascorbate, Glutathione, and Poly(ADPribose)polymerase (PARP) in Plant Cell Cultures. *Methods in Molecular Biology*, **2019**, 1990, 165-181	1.4	5
183	Brassinosteroids Act as a Positive Regulator of Photoprotection in Response to Chilling Stress. *Plant Physiology*, **2019**, 180, 2061-2076	6.6	46
182	A novel CO -responsive systemic signaling pathway controlling plant mycorrhizal symbiosis. *New Phytologist*, **2019**, 224, 106-116	9.8	20
181	A reference-grade wild soybean genome. *Nature Communications*, **2019**, 10, 1216	17.4	88

180	Legumes-The art and science of environmentally sustainable agriculture. *Plant, Cell and Environment*, **2019**, 42, 1-5	8.4	13
179	SlHY5 Integrates Temperature, Light, and Hormone Signaling to Balance Plant Growth and Cold Tolerance. *Plant Physiology*, **2019**, 179, 749-760	6.6	39
178	Contrasting responses of stomatal conductance and photosynthetic capacity to warming and elevated CO2 in the tropical tree species Alchornea glandulosa under heatwave conditions. *Environmental and Experimental Botany*, **2019**, 158, 28-39	5.9	25
177	Efficient phloem transport significantly remobilizes cadmium from old to young organs in a hyperaccumulator Sedum alfredii. *Journal of Hazardous Materials*, **2019**, 365, 421-429	12.8	25
176	Modelling predicts that soybean is poised to dominate crop production across Africa. *Plant, Cell and Environment*, **2019**, 42, 373-385	8.4	25
175	A Plant Phytosulfokine Peptide Initiates Auxin-Dependent Immunity through Cytosolic Ca Signaling in Tomato. *Plant Cell*, **2018**, 30, 652-667	11.6	72
174	Developmental control of hypoxia during bud burst in grapevine. *Plant, Cell and Environment*, **2018**, 41, 1154-1170	8.4	27
173	Strigolactones positively regulate chilling tolerance in pea and in Arabidopsis. *Plant, Cell and Environment*, **2018**, 41, 1298-1310	8.4	35
172	Reactive oxygen species, oxidative signaling and the regulation of photosynthesis. *Environmental and Experimental Botany*, **2018**, 154, 134-142	5.9	309
171	Redox regulation of cell proliferation: Bioinformatics and redox proteomics approaches to identify redox-sensitive cell cycle regulators. *Free Radical Biology and Medicine*, **2018**, 122, 137-149	7.8	33
170	The redox state of the apoplast influences the acclimation of photosynthesis and leaf metabolism to changing irradiance. *Plant, Cell and Environment*, **2018**, 41, 1083-1097	8.4	30
169	ROS-related redox regulation and signaling in plants. *Seminars in Cell and Developmental Biology*, **2018**, 80, 3-12	7.5	373
168	Ascorbate-mediated regulation of growth, photoprotection, and photoinhibition in Arabidopsis thaliana. *Journal of Experimental Botany*, **2018**, 69, 2823-2835	7	32
167	Spatially explicit estimation of heat stress-related impacts of climate change on the milk production of dairy cows in the United Kingdom. *PLoS ONE*, **2018**, 13, e0197076	3.7	20
166	Roles for Light, Energy, and Oxygen in the Fate of Quiescent Axillary Buds. *Plant Physiology*, **2018**, 176, 1171-1181	6.6	19
165	Light Signaling-Dependent Regulation of Photoinhibition and Photoprotection in Tomato. *Plant Physiology*, **2018**, 176, 1311-1326	6.6	52
164	Oxidative stress-triggered interactions between the succinyl- and acetyl-proteomes of rice leaves. *Plant, Cell and Environment*, **2018**, 41, 1139-1153	8.4	44
163	Mitochondrial Redox State, Nitrogen Metabolism and Signalling **2018**, 287-304		0

162	Nitrate, NO and ROS Signaling in Stem Cell Homeostasis. *Trends in Plant Science*, **2018**, 23, 1041-1044	13.1	20
161	Enhancing faba bean (Vicia faba L.) genome resources. *Journal of Experimental Botany*, **2017**, 68, 1941-1953	7	25
160	Redox Changes During the Cell Cycle in the Embryonic Root Meristem of Arabidopsis thaliana. *Antioxidants and Redox Signaling*, **2017**, 27, 1505-1519	8.4	44
159	l-cysteine desulfhydrase-related H S production is involved in OsSE5-promoted ammonium tolerance in roots of Oryza sativa. *Plant, Cell and Environment*, **2017**, 40, 1777-1790	8.4	20
158	Learning To Breathe: Developmental Phase Transitions in Oxygen Status. *Trends in Plant Science*, **2017**, 22, 140-153	13.1	37
157	Mitochondrial Respiration and Oxygen Tension. *Methods in Molecular Biology*, **2017**, 1670, 97-113	1.4	1
156	Redox Control of Aphid Resistance through Altered Cell Wall Composition and Nutritional Quality. *Plant Physiology*, **2017**, 175, 259-271	6.6	19
155	Inhibitor-induced oxidation of the nucleus and cytosol in implications for organelle to nucleus retrograde signalling. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	14
154	Photosynthesis solutions to enhance productivity. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	45
153	Integrating Plant Science and Crop Modeling: Assessment of the Impact of Climate Change on Soybean and Maize Production. *Plant and Cell Physiology*, **2017**, 58, 1833-1847	4.9	28
152	Metabolite transport and associated sugar signalling systems underpinning source/sink interactions. *Biochimica Et Biophysica Acta - Bioenergetics*, **2016**, 1857, 1715-25	4.6	80
151	Systemic Induction of Photosynthesis via Illumination of the Shoot Apex Is Mediated Sequentially by Phytochrome B, Auxin and Hydrogen Peroxide in Tomato. *Plant Physiology*, **2016**, 172, 1259-1272	6.6	46
150	Neglecting legumes has compromised human health and sustainable food production. *Nature Plants*, **2016**, 2, 16112	11.5	344
149	Oxidative stress and antioxidative systems: recipes for successful data collection and interpretation. *Plant, Cell and Environment*, **2016**, 39, 1140-60	8.4	189
148	Redox regulation in shoot growth, SAM maintenance and flowering. *Current Opinion in Plant Biology*, **2016**, 29, 121-8	9.9	82
147	Interactions between 2-Cys peroxiredoxins and ascorbate in autophagosome formation during the heat stress response in Solanum lycopersicum. *Journal of Experimental Botany*, **2016**, 67, 1919-33	7	20
146	Cross-tolerance to biotic and abiotic stresses in plants: a focus on resistance to aphid infestation. *Journal of Experimental Botany*, **2016**, 67, 2025-37	7	123
145	Drought Stress Responses in Soybean Roots and Nodules. *Frontiers in Plant Science*, **2016**, 7, 1015	6.2	86

144	Intracellular Redox Compartmentation and ROS-Related Communication in Regulation and Signaling. *Plant Physiology*, **2016**, 171, 1581-92	6.6	189
143	Stress-triggered redox signalling: what's in pROSpect?. *Plant, Cell and Environment*, **2016**, 39, 951-64	8.4	217
142	Systematic analysis of phloem-feeding insect-induced transcriptional reprogramming in Arabidopsis highlights common features and reveals distinct responses to specialist and generalist insects. *Journal of Experimental Botany*, **2015**, 66, 495-512	7	49
141	Producing a road map that enables plants to cope with future climate change. *Journal of Experimental Botany*, **2015**, 66, 3433-4	7	7
140	Low concentrations of the toxin ophiobolin A lead to an arrest of the cell cycle and alter the intracellular partitioning of glutathione between the nuclei and cytoplasm. *Journal of Experimental Botany*, **2015**, 66, 2991-3000	7	19
139	Unravelling the reactive oxygen and reactive nitrogen signalling networks in plants. *Journal of Experimental Botany*, **2015**, 66, 2825-6	7	4
138	Interplay between reactive oxygen species and hormones in the control of plant development and stress tolerance. *Journal of Experimental Botany*, **2015**, 66, 2839-56	7	401
137	Ectopic phytocystatin expression increases nodule numbers and influences the responses of soybean (Glycine max) to nitrogen deficiency. *Phytochemistry*, **2015**, 112, 179-87	4	17
136	Potential use of phytocystatins in crop improvement, with a particular focus on legumes. *Journal of Experimental Botany*, **2015**, 66, 3559-70	7	40
135	Metabolic responses to sulfur dioxide in grapevine (Vitis vinifera L.): photosynthetic tissues and berries. *Frontiers in Plant Science*, **2015**, 6, 60	6.2	10
134	Redox markers for drought-induced nodule senescence, a process occurring after drought-induced senescence of the lowest leaves in soybean (Glycine max). *Annals of Botany*, **2015**, 116, 497-510	4.1	33
133	High atmospheric carbon dioxide-dependent alleviation of salt stress is linked to RESPIRATORY BURST OXIDASE 1 (RBOH1)-dependent H2O2 production in tomato (Solanum lycopersicum). *Journal of Experimental Botany*, **2015**, 66, 7391-404	7	34
132	Unravelling how plants benefit from ROS and NO reactions, while resisting oxidative stress. *Annals of Botany*, **2015**, 116, 469-73	4.1	53
131	Nitrogen deficiency in barley (Hordeum vulgare) seedlings induces molecular and metabolic adjustments that trigger aphid resistance. *Journal of Experimental Botany*, **2015**, 66, 3639-55	7	38
130	Spatio-temporal relief from hypoxia and production of reactive oxygen species during bud burst in grapevine (Vitis vinifera). *Annals of Botany*, **2015**, 116, 703-11	4.1	30
129	Low glutathione regulates gene expression and the redox potentials of the nucleus and cytosol in Arabidopsis thaliana. *Plant, Cell and Environment*, **2015**, 38, 266-79	8.4	85
128	Redox homeostasis: Opening up ascorbate transport. *Nature Plants*, **2015**, 1, 14012	11.5	24
127	WHIRLY1 Functions in the Control of Responses to Nitrogen Deficiency But Not Aphid Infestation in Barley. *Plant Physiology*, **2015**, 168, 1140-51	6.6	13

126	Glutathione--linking cell proliferation to oxidative stress. *Free Radical Biology and Medicine*, **2015**, 89, 1154-64	7.8	169
125	Mechanisms of plant-insect interaction. *Journal of Experimental Botany*, **2015**, 66, 421-4	7	8
124	Redox regulation of plant development. *Antioxidants and Redox Signaling*, **2014**, 21, 1305-26	8.4	167
123	Ectopic phytocystatin expression leads to enhanced drought stress tolerance in soybean (Glycine max) and Arabidopsis thaliana through effects on strigolactone pathways and can also result in improved seed traits. *Plant Biotechnology Journal*, **2014**, 12, 903-13	11.6	52
122	The functions of WHIRLY1 and REDOX-RESPONSIVE TRANSCRIPTION FACTOR 1 in cross tolerance responses in plants: a hypothesis. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20130226	5.8	85
121	The roles of reactive oxygen metabolism in drought: not so cut and dried. *Plant Physiology*, **2014**, 164, 1636-48	6.6	363
120	Effects of light and the regulatory B-subunit composition of protein phosphatase 2A on the susceptibility of Arabidopsis thaliana to aphid (Myzus persicae) infestation. *Frontiers in Plant Science*, **2014**, 5, 405	6.2	24
119	Transport of glutathione into the nucleus. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S3	7.8	
118	The effects of redox controls mediated by glutathione peroxidases on root architecture in Arabidopsis thaliana. *Journal of Experimental Botany*, **2014**, 65, 1403-13	7	74
117	Field Phenotyping of Soybean Roots for Drought Stress Tolerance. *Agronomy*, **2014**, 4, 418-435	3.6	100
116	Photosynthesis and Leaf Senescence as Determinants of Plant Productivity. *Biotechnology in Agriculture and Forestry*, **2014**, 113-138		5
115	A new role for glutathione in the regulation of root architecture linked to strigolactones. *Plant, Cell and Environment*, **2014**, 37, 488-98	8.4	42
114	Interactions between hormone and redox signalling pathways in the control of growth and cross tolerance to stress. *Environmental and Experimental Botany*, **2013**, 94, 73-88	5.9	158
113	Redox signaling in plants. *Antioxidants and Redox Signaling*, **2013**, 18, 2087-90	8.4	231
112	Vitamin C and the abscisic acid-insensitive 4 transcription factor are important determinants of aphid resistance in Arabidopsis. *Antioxidants and Redox Signaling*, **2013**, 18, 2091-105	8.4	58
111	Nuclear glutathione. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 3304-16	4	74
110	A phenomics approach to the analysis of the influence of glutathione on leaf area and abiotic stress tolerance in Arabidopsis thaliana. *Frontiers in Plant Science*, **2013**, 4, 416	6.2	19
109	Regulating the redox gatekeeper: vacuolar sequestration puts glutathione disulfide in its place. *Plant Physiology*, **2013**, 163, 665-71	6.6	54

108	The impact of global change factors on redox signaling underpinning stress tolerance. *Plant Physiology*, **2013**, 161, 5-19	6.6	227
107	Redox regulation of photosynthetic gene expression. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2012**, 367, 3475-85	5.8	61
106	Photosynthetic control of electron transport and the regulation of gene expression. *Journal of Experimental Botany*, **2012**, 63, 1637-61	7	306
105	A novel function for a redox-related LEA protein (SAG21/AtLEA5) in root development and biotic stress responses. *Plant, Cell and Environment*, **2012**, 35, 418-29	8.4	71
104	Infestation of potato (Solanum tuberosum L.) by the peach-potato aphid (Myzus persicae Sulzer) alters cellular redox status and is influenced by ascorbate. *Plant, Cell and Environment*, **2012**, 35, 430-40	8.4	38
103	Plant responses to insect herbivory: interactions between photosynthesis, reactive oxygen species and hormonal signalling pathways. *Plant, Cell and Environment*, **2012**, 35, 441-53	8.4	188
102	Glutathione in plants: an integrated overview. *Plant, Cell and Environment*, **2012**, 35, 454-84	8.4	931
101	The ABA-INSENSITIVE-4 (ABI4) transcription factor links redox, hormone and sugar signaling pathways. *Plant Signaling and Behavior*, **2012**, 7, 276-81	2.5	33
100	Glutathione. *The Arabidopsis Book*, **2011**, 9, e0142	3	160
99	Understanding oxidative stress and antioxidant functions to enhance photosynthesis. *Plant Physiology*, **2011**, 155, 93-100	6.6	764
98	Acclimation to high CO2 in maize is related to water status and dependent on leaf rank. *Plant, Cell and Environment*, **2011**, 34, 314-31	8.4	30
97	Ascorbate and glutathione: the heart of the redox hub. *Plant Physiology*, **2011**, 155, 2-18	6.6	1526
96	Dorsoventral variations in dark chilling effects on photosynthesis and stomatal function in Paspalum dilatatum leaves. *Journal of Experimental Botany*, **2011**, 62, 687-99	7	12
95	Perturbations of amino acid metabolism associated with glyphosate-dependent inhibition of shikimic acid metabolism affect cellular redox homeostasis and alter the abundance of proteins involved in photosynthesis and photorespiration. *Plant Physiology*, **2011**, 157, 256-68	6.6	84
94	Respiration and nitrogen assimilation: targeting mitochondria-associated metabolism as a means to enhance nitrogen use efficiency. *Journal of Experimental Botany*, **2011**, 62, 1467-82	7	164
93	Enhancing drought tolerance in C(4) crops. *Journal of Experimental Botany*, **2011**, 62, 3135-53	7	187
92	The transcription factor ABI4 Is required for the ascorbic acid-dependent regulation of growth and regulation of jasmonate-dependent defense signaling pathways in Arabidopsis. *Plant Cell*, **2011**, 23, 3319-34	11.6	122
91	Recruitment of glutathione into the nucleus during cell proliferation adjusts whole-cell redox homeostasis in Arabidopsis thaliana and lowers the oxidative defence shield. *Plant Journal*, **2010**, 64, 825-38	6.9	144

90	Transport Systems for NO3 and NH4 + **2010**, 83-102		2
89	Mitochondrial Redox State, Nitrogen Metabolism and Signalling **2010**, 287-304		2
88	Accumulation of isochorismate-derived 2,3-dihydroxybenzoic 3-O-beta-D-xyloside in arabidopsis resistance to pathogens and ageing of leaves. *Journal of Biological Chemistry*, **2010**, 285, 25654-65	5.4	56
87	Nitrogen Assimilation and its Relevance to Crop Improvement **2010**, 1-40		16
86	A nuclear glutathione cycle within the cell cycle. *Biochemical Journal*, **2010**, 431, 169-78	3.8	198
85	Nitrate Reductase and Nitric Oxide **2010**, 127-145		1
84	Transcriptional Profiling Approaches for Studying Nitrogen Use Efficiency **2010**, 41-62		1
83	Nitric Oxide Synthase-Like Activities in Plants **2010**, 103-125		1
82	Metabolomics Approaches to Advance Understanding of Nitrogen Assimilation and Carbon Nitrogen Interactions **2010**, 249-268		
81	Morphological Adaptations of Arabidopsis Roots to Nitrogen Supply **2010**, 269-286		
80	Nitric Oxide Signalling in Plants: Cross-Talk With Ca2+, Protein Kinases and Reactive Oxygen Species **2010**, 147-170		10
79	The Utilization of Nitrogen by Plants: A Whole Plant Perspective **2010**, 305-351		4
78	Legume Nitrogen Fixation and Soil Abiotic Stress: From Physiology to Genomics and Beyond **2010**, 207-248		21
77	Theanine: Its Occurrence and Metabolism in Tea **2010**, 171-206		4
76	Energetics of Nitrogen Acquisition **2010**, 63-81		1
75	Plant homologs of the Plasmodium falciparum chloroquine-resistance transporter, PfCRT, are required for glutathione homeostasis and stress responses. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 2331-6	11.5	149
74	Conditional modulation of NAD levels and metabolite profiles in Nicotiana sylvestris by mitochondrial electron transport and carbon/nitrogen supply. *Planta*, **2010**, 231, 1145-57	4.7	23
73	Redox regulation in photosynthetic organisms: signaling, acclimation, and practical implications. *Antioxidants and Redox Signaling*, **2009**, 11, 861-905	8.4	1030

72	Pyridine nucleotide cycling and control of intracellular redox state in relation to poly (ADP-ribose) polymerase activity and nuclear localization of glutathione during exponential growth of Arabidopsis cells in culture. *Molecular Plant*, **2009**, 2, 442-56	14.4	73
71	Control of ascorbic acid synthesis and accumulation and glutathione by the incident light red/far red ratio in Phaseolus vulgaris leaves. *FEBS Letters*, **2009**, 583, 118-22	3.8	67
70	Variations in the dorso-ventral organization of leaf structure and Kranz anatomy coordinate the control of photosynthesis and associated signalling at the whole leaf level in monocotyledonous species. *Plant, Cell and Environment*, **2009**, 32, 1833-44	8.4	14
69	Photorespiratory metabolism: genes, mutants, energetics, and redox signaling. *Annual Review of Plant Biology*, **2009**, 60, 455-84	30.7	436
68	Systemic effects on leaf glutathione metabolism and defence protein expression caused by esca infection in grapevines. *Functional Plant Biology*, **2009**, 36, 260-279	2.7	31
67	Redox metabolism and longevity relationships in animals and plants. Preface. *SEB Experimental Biology Series*, **2009**, 62, xix-xx		3
66	Adaxial/abaxial specification in the regulation of photosynthesis and stomatal opening with respect to light orientation and growth with CO2 enrichment in the C4 species Paspalum dilatatum. *New Phytologist*, **2008**, 177, 186-198	9.8	44
65	Differential regulation of grain sucrose accumulation and metabolism in Coffea arabica (Arabica) and Coffea canephora (Robusta) revealed through gene expression and enzyme activity analysis. *New Phytologist*, **2008**, 178, 781-797	9.8	41
64	Mitochondrial respiratory pathways modulate nitrate sensing and nitrogen-dependent regulation of plant architecture in Nicotiana sylvestris. *Plant Journal*, **2008**, 54, 976-92	6.9	51
63	A Temperature-sensitive mutation in the Arabidopsis thaliana phosphomannomutase gene disrupts protein glycosylation and triggers cell death. *Journal of Biological Chemistry*, **2008**, 283, 5708-18	5.4	51
62	Cysteine proteinases regulate chloroplast protein content and composition in tobacco leaves: a model for dynamic interactions with ribulose-1,5-bisphosphate carboxylase/oxygenase (Rubisco) vesicular bodies. *Journal of Experimental Botany*, **2008**, 59, 1935-50	7	107
61	Regulation of respiration and the oxygen diffusion barrier in soybean protect symbiotic nitrogen fixation from chilling-induced inhibition and shoots from premature senescence. *Plant Physiology*, **2008**, 148, 316-27	6.6	22
60	Gene expression, cellular localisation and function of glutamine synthetase isozymes in wheat (Triticum aestivum L.). *Plant Molecular Biology*, **2008**, 67, 89-105	4.6	129
59	Analysis of redox relationships in the plant cell cycle: determinations of ascorbate, glutathione and poly (ADPribose)polymerase (PARP) in plant cell cultures. *Methods in Molecular Biology*, **2008**, 476, 199-215	1.4	11
58	Glutathione **2007**, 1-24		2
57	Genetic variation in pea (Pisum sativum L.) demonstrates the importance of root but not shoot C/N ratios in the control of plant morphology and reveals a unique relationship between shoot length and nodulation intensity. *Plant, Cell and Environment*, **2007**, 30, 1256-68	8.4	9
56	Light and oxygen are not required for harpin-induced cell death. *Journal of Biological Chemistry*, **2007**, 282, 37556-66	5.4	27
55	An evaluation of the costs of making specific secondary metabolites: Does the yield penalty incurred by host plant resistance to insects result from competition for resources?. *International Journal of Pest Management*, **2007**, 53, 175-182	1.5	14

54	Mitochondrial redox biology and homeostasis in plants. *Trends in Plant Science*, **2007**, 12, 125-34	13.1	402
53	Shape-shifters building bridges? Stromules, matrixules and metabolite channelling in photorespiration. *Trends in Plant Science*, **2007**, 12, 381-383	13.1	12
52	Lack of respiratory chain complex I impairs alternative oxidase engagement and modulates redox signaling during elicitor-induced cell death in tobacco. *Plant Cell*, **2007**, 19, 640-55	11.6	114
51	Transcriptional profiling approaches to understanding how plants regulate growth and defence: a case study illustrated by analysis of the role of vitamin C. *Exs*, **2007**, 97, 55-86		6
50	The maize Activator/Dissociation system is functional in hexaploid wheat through successive generations. *Functional Plant Biology*, **2007**, 34, 835-843	2.7	4
49	Inter-relationships between light and respiration in the control of ascorbic acid synthesis and accumulation in Arabidopsis thaliana leaves. *Journal of Experimental Botany*, **2006**, 57, 1621-31	7	219
48	Ascorbate oxidase-dependent changes in the redox state of the apoplast modulate gene transcript accumulation leading to modified hormone signaling and orchestration of defense processes in tobacco. *Plant Physiology*, **2006**, 141, 423-35	6.6	137
47	Two new cysteine proteinases with specific expression patterns in mature and senescent tobacco (Nicotiana tabacum L.) leaves. *Journal of Experimental Botany*, **2006**, 57, 1431-43	7	63
46	Redox regulation of peroxiredoxin and proteinases by ascorbate and thiols during pea root nodule senescence. *FEBS Letters*, **2006**, 580, 1269-76	3.8	54
45	A new era in plant metabolism research reveals a bright future for bio-fortification and human nutrition. *Physiologia Plantarum*, **2006**, 126, 289-290	4.6	3
44	Yeast complementation reveals a role for an Arabidopsis thaliana late embryogenesis abundant (LEA)-like protein in oxidative stress tolerance. *Plant Journal*, **2006**, 48, 743-56	6.9	80
43	Engineering and genetic approaches to modulating the glutathione network in plants. *Physiologia Plantarum*, **2006**, 126, 382-397	4.6	71
42	Redox homeostasis and antioxidant signaling: a metabolic interface between stress perception and physiological responses. *Plant Cell*, **2005**, 17, 1866-75	11.6	2004
41	Drought controls on H2O2 accumulation, catalase (CAT) activity and CAT gene expression in wheat. *Journal of Experimental Botany*, **2005**, 56, 417-23	7	179
40	Legume nodule senescence: roles for redox and hormone signalling in the orchestration of the natural aging process. *New Phytologist*, **2005**, 165, 683-701	9.8	252
39	Salicylic acid and H2O2 function by independent pathways in the induction of freezing tolerance in potato. *Physiologia Plantarum*, **2005**, 125, 051020045109004-???	4.6	9
38	Oxidant and antioxidant signalling in plants: a re-evaluation of the concept of oxidative stress in a physiological context. *Plant, Cell and Environment*, **2005**, 28, 1056-1071	8.4	1265
37	Ascorbate content of wheat leaves is not determined by maximal l-galactono-1,4-lactone dehydrogenase (GalLDH) activity under drought stress. *Plant, Cell and Environment*, **2005**, 28, 1073-1081	8.4	75

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