

# Ron Mittler

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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.

151  
papers

43,568  
citations

78  
h-index

174  
g-index

174  
ext. papers

52,138  
ext. citations

8.3  
avg, IF

8.3  
L-index

#	Paper	IF	Citations
151	γ-Aminobutyric acid plays a key role in plant acclimation to a combination of high light and heat stress.. <i>Plant Physiology</i> , <b>2022</b> ,	6.6	2
150	A VDAC1-mediated NEET protein chain transfers [2Fe-2S] clusters between the mitochondria and the cytosol and impacts mitochondrial dynamics.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	2
149	Responses of plants to climate change: Metabolic changes during abiotic stress combination in plants.. <i>Journal of Experimental Botany</i> , <b>2022</b> ,	7	6
148	Plant responses to multifactorial stress combination.. <i>New Phytologist</i> , <b>2022</b> ,	9.8	6
147	Extracellular ATP plays an important role in systemic wound response activation.. <i>Plant Physiology</i> , <b>2022</b> ,	6.6	3
146	Endothelial cells promote smooth muscle cell resilience to H <sub>2</sub> O <sub>2</sub> -induced cell death in mouse cerebral arteries.. <i>Acta Physiologica</i> , <b>2022</b> , e13819	5.6	
145	The gene co-expression network.. <i>Plant Direct</i> , <b>2022</b> , 6, e396	3.3	0
144	An anti-diabetic drug targets NEET (CISD) proteins through destabilization of their [2Fe-2S] clusters.. <i>Communications Biology</i> , <b>2022</b> , 5, 437	6.7	0
143	Vascular and nonvascular transmission of systemic reactive oxygen signals during wounding and heat stress. <i>Plant Physiology</i> , <b>2021</b> , 186, 1721-1733	6.6	8
142	Integration of electric, calcium, reactive oxygen species and hydraulic signals during rapid systemic signaling in plants. <i>Plant Journal</i> , <b>2021</b> , 107, 7-20	6.9	16
141	Global Warming, Climate Change, and Environmental Pollution: Recipe for a Multifactorial Stress Combination Disaster. <i>Trends in Plant Science</i> , <b>2021</b> , 26, 588-599	13.1	89
140	A Combined Drug Treatment That Reduces Mitochondrial Iron and Reactive Oxygen Levels Recovers Insulin Secretion in NAF-1-Deficient Pancreatic Cells. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	3
139	Integration of reactive oxygen species and hormone signaling during abiotic stress. <i>Plant Journal</i> , <b>2021</b> , 105, 459-476	6.9	56
138	The impact of water deficit and heat stress combination on the molecular response, physiology, and seed production of soybean. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 41-52	4.6	14
137	Meta-analysis of drought and heat stress combination impact on crop yield and yield components. <i>Physiologia Plantarum</i> , <b>2021</b> , 171, 66-76	4.6	47
136	NEET proteins as novel drug targets for mitochondrial dysfunction <b>2021</b> , 477-488		3
135	A systemic whole-plant change in redox levels accompanies the rapid systemic response to wounding. <i>Plant Physiology</i> , <b>2021</b> , 186, 4-8	6.6	9

134	The mitochondrial localized CISD-3.1/CISD-3.2 proteins are required to maintain normal germline structure and function in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , <b>2021</b> , 16, e0245174	3.7	0
133	The impact of multifactorial stress combination on plant growth and survival. <i>New Phytologist</i> , <b>2021</b> , 230, 1034-1048	9.8	34
132	Plasmodesmata-localized proteins and ROS orchestrate light-induced rapid systemic signaling in. <i>Science Signaling</i> , <b>2021</b> , 14,	8.8	20
131	Developing climate-resilient crops: improving plant tolerance to stress combination. <i>Plant Journal</i> , <b>2021</b> ,	6.9	20
130	Combination of Antioxidant Enzyme Overexpression and N-Acetylcysteine Treatment Enhances the Survival of Bone Marrow Mesenchymal Stromal Cells in Ischemic Limb in Mice With Type 2 Diabetes. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e023491	6	4
129	The impact of stress combination on reproductive processes in crops. <i>Plant Science</i> , <b>2021</b> , 311, 111007	5.3	6
128	Disrupting CISD2 function in cancer cells primarily impacts mitochondrial labile iron levels and triggers TXNIP expression. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 176, 92-104	7.8	5
127	Systemic signaling during abiotic stress combination in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 13810-13820	11.5	85
126	High temperatures modify plant responses to abiotic stress conditions. <i>Physiologia Plantarum</i> , <b>2020</b> , 170, 335-344	4.6	27
125	Noninvasive Live ROS Imaging of Whole Plants Grown in Soil. <i>Trends in Plant Science</i> , <b>2020</b> , 25, 1052-1053	3.1	6
124	Coordinated Systemic Stomatal Responses in Soybean. <i>Plant Physiology</i> , <b>2020</b> , 183, 1428-1431	6.6	3
123	Rapid systemic signaling during abiotic and biotic stresses: is the ROS wave master of all trades?. <i>Plant Journal</i> , <b>2020</b> , 102, 887-896	6.9	78
122	Signal transduction networks during stress combination. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 1734-1741	4	45
121	Expression of a dominant-negative AtNEET-H89C protein disrupts iron-sulfur metabolism and iron homeostasis in <i>Arabidopsis</i> . <i>Plant Journal</i> , <b>2020</b> , 101, 1152-1169	6.9	18
120	FMO1 Is Involved in Excess Light Stress-Induced Signal Transduction and Cell Death Signaling. <i>Cells</i> , <b>2020</b> , 9,	7.9	4
119	MYB30 Orchestrates Systemic Reactive Oxygen Signaling and Plant Acclimation. <i>Plant Physiology</i> , <b>2020</b> , 184, 666-675	6.6	18
118	Untangling the ties that bind different systemic signals in plants. <i>Science Signaling</i> , <b>2020</b> , 13,	8.8	3
117	The balancing act of NEET proteins: Iron, ROS, calcium and metabolism. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2020</b> , 1867, 118805	4.9	10

116	Vascular Bundles Mediate Systemic Reactive Oxygen Signaling during Light Stress. <i>Plant Cell</i> , <b>2020</b> , 32, 3425-3435	11.6	24
115	Phytochrome B Is Required for Systemic Stomatal Responses and Reactive Oxygen Species Signaling during Light Stress. <i>Plant Physiology</i> , <b>2020</b> , 184, 1563-1572	6.6	16
114	Coordinated and rapid whole-plant systemic stomatal responses. <i>New Phytologist</i> , <b>2020</b> , 225, 21-25	9.8	35
113	Biotechnological Potential of LSD1, EDS1, and PAD4 in the Improvement of Crops and Industrial Plants. <i>Plants</i> , <b>2019</b> , 8,	4.5	6
112	The anti-apoptotic proteins NAF-1 and iASPP interact to drive apoptosis in cancer cells. <i>Chemical Science</i> , <b>2019</b> , 10, 665-673	9.4	7
111	Using Tomato Recombinant Lines to Improve Plant Tolerance to Stress Combination Through a More Efficient Nitrogen Metabolism. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1702	6.2	7
110	Whole-Plant Live Imaging of Reactive Oxygen Species. <i>Molecular Plant</i> , <b>2019</b> , 12, 1203-1210	14.4	77
109	Jasmonic Acid Is Required for Plant Acclimation to a Combination of High Light and Heat Stress. <i>Plant Physiology</i> , <b>2019</b> , 181, 1668-1682	6.6	97
108	Redox-dependent gating of VDAC by mitoNEET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19924-19929	11.5	35
107	Identification and characterization of a core set of ROS wave-associated transcripts involved in the systemic acquired acclimation response of Arabidopsis to excess light. <i>Plant Journal</i> , <b>2019</b> , 98, 126-141	6.9	56
106	Rapid Responses to Abiotic Stress: Priming the Landscape for the Signal Transduction Network. <i>Trends in Plant Science</i> , <b>2019</b> , 24, 25-37	13.1	142
105	NEET Proteins: A New Link Between Iron Metabolism, Reactive Oxygen Species, and Cancer. <i>Antioxidants and Redox Signaling</i> , <b>2019</b> , 30, 1083-1095	8.4	70
104	The <i>cisd</i> gene family regulates physiological germline apoptosis through <i>ced-13</i> and the canonical cell death pathway in <i>Caenorhabditis elegans</i> . <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 162-178	12.7	8
103	Coordinating the overall stomatal response of plants: Rapid leaf-to-leaf communication during light stress. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	93
102	The unique fold and lability of the [2Fe-2S] clusters of NEET proteins mediate their key functions in health and disease. <i>Journal of Biological Inorganic Chemistry</i> , <b>2018</b> , 23, 599-612	3.7	33
101	Structure of the human monomeric NEET protein MiNT and its role in regulating iron and reactive oxygen species in cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 272-277	11.5	33
100	Phylogenetic analysis of the CDGSH iron-sulfur binding domain reveals its ancient origin. <i>Scientific Reports</i> , <b>2018</b> , 8, 4840	4.9	8
99	Plant adaptations to the combination of drought and high temperatures. <i>Physiologia Plantarum</i> , <b>2018</b> , 162, 2-12	4.6	462

98	Tolerance to Stress Combination in Tomato Plants: New Insights in the Protective Role of Melatonin. <i>Molecules</i> , <b>2018</b> , 23,	4.8	151
97	Reactive Oxygen Signaling in Plants <b>2018</b> , 189-201		8
96	ROS-induced ROS release in plant and animal cells. <i>Free Radical Biology and Medicine</i> , <b>2018</b> , 122, 21-27	7.8	98
95	Local and Systemic Metabolic Responses during Light-Induced Rapid Systemic Signaling. <i>Plant Physiology</i> , <b>2018</b> , 178, 1461-1472	6.6	27
94	Rapid Accumulation of Glutathione During Light Stress in Arabidopsis. <i>Plant and Cell Physiology</i> , <b>2018</b> , 59, 1817-1826	4.9	22
93	Phylogenetic analysis of eukaryotic NEET proteins uncovers a link between a key gene duplication event and the evolution of vertebrates. <i>Scientific Reports</i> , <b>2017</b> , 7, 42571	4.9	27
92	Molecular Dynamics Simulations of the [2Fe-2S] Cluster-Binding Domain of NEET Proteins Reveal Key Molecular Determinants That Induce Their Cluster Transfer/Release. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 10648-10656	3.4	11
91	Reactive oxygen species, abiotic stress and stress combination. <i>Plant Journal</i> , <b>2017</b> , 90, 856-867	6.9	1026
90	ROS Are Good. <i>Trends in Plant Science</i> , <b>2017</b> , 22, 11-19	13.1	1278
89	Interactions between mitoNEET and NAF-1 in cells. <i>PLoS ONE</i> , <b>2017</b> , 12, e0175796	3.7	25
88	Activation of apoptosis in NAF-1-deficient human epithelial breast cancer cells. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 155-65	5.3	35
87	Breast cancer tumorigenicity is dependent on high expression levels of NAF-1 and the lability of its Fe-S clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10890-5	11.5	49
86	The evolution of reactive oxygen species metabolism. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 5933-5943		87
85	ROS, Calcium, and Electric Signals: Key Mediators of Rapid Systemic Signaling in Plants. <i>Plant Physiology</i> , <b>2016</b> , 171, 1606-15	6.6	318
84	ABA Is Required for Plant Acclimation to a Combination of Salt and Heat Stress. <i>PLoS ONE</i> , <b>2016</b> , 11, e0147625	3.7	149
83	Accumulation of Flavonols over Hydroxycinnamic Acids Favors Oxidative Damage Protection under Abiotic Stress. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 838	6.2	143
82	ABA is required for the accumulation of APX1 and MBF1c during a combination of water deficit and heat stress. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 5381-5390	7	90
81	Recent Progress in Understanding the Role of Reactive Oxygen Species in Plant Cell Signaling. <i>Plant Physiology</i> , <b>2016</b> , 171, 1535-9	6.6	136

80	GLP-1-RA Corrects Mitochondrial Labile Iron Accumulation and Improves ECell Function in Type 2 Wolfram Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2016</b> , 101, 3592-3599	5.6	32
79	The Fe-S cluster-containing NEET proteins mitoNEET and NAF-1 as chemotherapeutic targets in breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3698-703	11.5	56
78	The roles of ROS and ABA in systemic acquired acclimation. <i>Plant Cell</i> , <b>2015</b> , 27, 64-70	11.6	335
77	Ultra-fast alterations in mRNA levels uncover multiple players in light stress acclimation in plants. <i>Plant Journal</i> , <b>2015</b> , 84, 760-72	6.9	50
76	Structure-function analysis of NEET proteins uncovers their role as key regulators of iron and ROS homeostasis in health and disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2015</b> , 1853, 1294-315	4.9	94
75	Cancer-Related NEET Proteins Transfer 2Fe-2S Clusters to Anamorsin, a Protein Required for Cytosolic Iron-Sulfur Cluster Biogenesis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0139699	3.7	44
74	Abiotic and biotic stress combinations. <i>New Phytologist</i> , <b>2014</b> , 203, 32-43	9.8	930
73	Integrated strategy reveals the protein interface between cancer targets Bcl-2 and NAF-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 5177-82	11.5	48
72	ROS as key players in plant stress signalling. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 1229-40	7	1113
71	A tidal wave of signals: calcium and ROS at the forefront of rapid systemic signaling. <i>Trends in Plant Science</i> , <b>2014</b> , 19, 623-30	13.1	356
70	A point mutation in the [2Fe-2S] cluster binding region of the NAF-1 protein (H114C) dramatically hinders the cluster donor properties. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 1572-8		24
69	The combined effect of salinity and heat reveals a specific physiological, biochemical and molecular response in tomato plants. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 1059-73	8.4	215
68	NAF-1 and mitoNEET are central to human breast cancer proliferation by maintaining mitochondrial homeostasis and promoting tumor growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 14676-81	11.5	126
67	Temporal-spatial interaction between reactive oxygen species and abscisic acid regulates rapid systemic acclimation in plants. <i>Plant Cell</i> , <b>2013</b> , 25, 3553-69	11.6	228
66	Linking genes of unknown function with abiotic stress responses by high-throughput phenotype screening. <i>Physiologia Plantarum</i> , <b>2013</b> , 148, 322-33	4.6	66
65	A cyclic nucleotide-gated channel (CNGC16) in pollen is critical for stress tolerance in pollen reproductive development. <i>Plant Physiology</i> , <b>2013</b> , 161, 1010-20	6.6	108
64	Enhanced seed production under prolonged heat stress conditions in Arabidopsis thaliana plants deficient in cytosolic ascorbate peroxidase 2. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 253-63	7	80
63	Nutrient-deprivation autophagy factor-1 (NAF-1): biochemical properties of a novel cellular target for anti-diabetic drugs. <i>PLoS ONE</i> , <b>2013</b> , 8, e61202	3.7	37

62	How do plants feel the heat?. <i>Trends in Biochemical Sciences</i> , <b>2012</b> , 37, 118-25	10.3	622
61	Reactive oxygen species-dependent wound responses in animals and plants. <i>Free Radical Biology and Medicine</i> , <b>2012</b> , 53, 2269-76	7.8	86
60	Characterization of Arabidopsis NEET reveals an ancient role for NEET proteins in iron metabolism. <i>Plant Cell</i> , <b>2012</b> , 24, 2139-54	11.6	64
59	ROS and redox signalling in the response of plants to abiotic stress. <i>Plant, Cell and Environment</i> , <b>2012</b> , 35, 259-70	8.4	1061
58	ROS signaling: the new wave?. <i>Trends in Plant Science</i> , <b>2011</b> , 16, 300-9	13.1	1529
57	Identification of the MBF1 heat-response regulon of Arabidopsis thaliana. <i>Plant Journal</i> , <b>2011</b> , 66, 844-56	10.9	114
56	The genome of woodland strawberry ( <i>Fragaria vesca</i> ). <i>Nature Genetics</i> , <b>2011</b> , 43, 109-16	36.3	881
55	Respiratory burst oxidases: the engines of ROS signaling. <i>Current Opinion in Plant Biology</i> , <b>2011</b> , 14, 691-9	10.9	628
54	Extranuclear protection of chromosomal DNA from oxidative stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 1711-6	11.5	145
53	Facile transfer of [2Fe-2S] clusters from the diabetes drug target mitoNEET to an apo-acceptor protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 13047-52	11.5	94
52	Reactive oxygen species homeostasis and signalling during drought and salinity stresses. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 453-67	8.4	2207
51	Genetic engineering for modern agriculture: challenges and perspectives. <i>Annual Review of Plant Biology</i> , <b>2010</b> , 61, 443-62	30.7	702
50	Unraveling delta1-pyrroline-5-carboxylate-proline cycle in plants by uncoupled expression of proline oxidation enzymes. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 26482-92	5.4	171
49	Proteomic profiling of tandem affinity purified 14-3-3 protein complexes in Arabidopsis thaliana. <i>Proteomics</i> , <b>2009</b> , 9, 2967-85	4.8	148
48	The plant NADPH oxidase RBOHD mediates rapid systemic signaling in response to diverse stimuli. <i>Science Signaling</i> , <b>2009</b> , 2, ra45	8.8	682
47	Thiamin confers enhanced tolerance to oxidative stress in Arabidopsis. <i>Plant Physiology</i> , <b>2009</b> , 151, 421-32	10.6	173
46	Metabolomics for plant stress response. <i>Physiologia Plantarum</i> , <b>2008</b> , 132, 199-208	4.6	434
45	Reactive oxygen signaling and abiotic stress. <i>Physiologia Plantarum</i> , <b>2008</b> , 133, 481-9	4.6	719

44	Charting plant interactomes: possibilities and challenges. <i>Trends in Plant Science</i> , <b>2008</b> , 13, 183-91	13.1	64
43	Unraveling the tapestry of networks involving reactive oxygen species in plants. <i>Plant Physiology</i> , <b>2008</b> , 147, 978-84	6.6	177
42	Enhanced tolerance to oxidative stress in transgenic Arabidopsis plants expressing proteins of unknown function. <i>Plant Physiology</i> , <b>2008</b> , 148, 280-92	6.6	83
41	The transcriptional co-activator MBF1c is a key regulator of thermotolerance in Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 9269-75	5.4	201
40	Ascorbate peroxidase 1 plays a key role in the response of Arabidopsis thaliana to stress combination. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 34197-203	5.4	299
39	Annotating genes of known and unknown function by large-scale coexpression analysis. <i>Plant Physiology</i> , <b>2008</b> , 147, 41-57	6.6	137
38	Delayed leaf senescence induces extreme drought tolerance in a flowering plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 19631-6	11.5	631
37	The EAR-motif of the Cys2/His2-type zinc finger protein Zat7 plays a key role in the defense response of Arabidopsis to salinity stress. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 9260-8	5.4	195
36	Double mutants deficient in cytosolic and thylakoid ascorbate peroxidase reveal a complex mode of interaction between reactive oxygen species, plant development, and response to abiotic stresses. <i>Plant Physiology</i> , <b>2007</b> , 144, 1777-85	6.6	267
35	POFs: what we don't know can hurt us. <i>Trends in Plant Science</i> , <b>2007</b> , 12, 492-496	13.1	31
34	. <i>Science</i> ,	33.3	
33	Signals from Chloroplasts Converge to Regulate Nuclear Gene Expression. <i>Science</i> , <b>2007</b> , 316, 715-719	33.3	116
32	Could heat shock transcription factors function as hydrogen peroxide sensors in plants?. <i>Annals of Botany</i> , <b>2006</b> , 98, 279-88	4.1	372
31	Transcriptomic footprints disclose specificity of reactive oxygen species signaling in Arabidopsis. <i>Plant Physiology</i> , <b>2006</b> , 141, 436-45	6.6	610
30	What makes species unique? The contribution of proteins with obscure features. <i>Genome Biology</i> , <b>2006</b> , 7, R57	18.3	54
29	Gain- and loss-of-function mutations in Zat10 enhance the tolerance of plants to abiotic stress. <i>FEBS Letters</i> , <b>2006</b> , 580, 6537-42	3.8	316
28	Abiotic stress, the field environment and stress combination. <i>Trends in Plant Science</i> , <b>2006</b> , 11, 15-9	13.1	1783
27	Reactive oxygen species and temperature stresses: A delicate balance between signaling and destruction. <i>Physiologia Plantarum</i> , <b>2006</b> , 126, 45-51	4.6	735



26	Cell Death in Plant Development and Defense <b>2005</b> , 99-121		2
25	The zinc-finger protein Zat12 plays a central role in reactive oxygen and abiotic stress signaling in Arabidopsis. <i>Plant Physiology</i> , <b>2005</b> , 139, 847-56	6.6	495
24	Enhanced tolerance to environmental stress in transgenic plants expressing the transcriptional coactivator multiprotein bridging factor 1c. <i>Plant Physiology</i> , <b>2005</b> , 139, 1313-22	6.6	211
23	Cytosolic ascorbate peroxidase 1 is a central component of the reactive oxygen gene network of Arabidopsis. <i>Plant Cell</i> , <b>2005</b> , 17, 268-81	11.6	724
22	The zinc finger protein Zat12 is required for cytosolic ascorbate peroxidase 1 expression during oxidative stress in Arabidopsis. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 11736-43	5.4	323
21	When defense pathways collide. The response of Arabidopsis to a combination of drought and heat stress. <i>Plant Physiology</i> , <b>2004</b> , 134, 1683-96	6.6	1140
20	Reactive oxygen gene network of plants. <i>Trends in Plant Science</i> , <b>2004</b> , 9, 490-8	13.1	3880
19	Growth suppression, altered stomatal responses, and augmented induction of heat shock proteins in cytosolic ascorbate peroxidase (Apx1)-deficient Arabidopsis plants. <i>Plant Journal</i> , <b>2003</b> , 34, 187-203	6.9	271
18	Enhanced photosynthesis and growth of transgenic plants that express ictB, a gene involved in HCO <sub>3</sub> <sup>-</sup> accumulation in cyanobacteria. <i>Plant Biotechnology Journal</i> , <b>2003</b> , 1, 43-50	11.6	84
17	The water-water cycle is essential for chloroplast protection in the absence of stress. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 38921-5	5.4	175
16	Molecular and biochemical mechanisms associated with dormancy and drought tolerance in the desert legume <i>Retama raetam</i> . <i>Plant Journal</i> , <b>2002</b> , 31, 319-30	6.9	159
15	Double antisense plants lacking ascorbate peroxidase and catalase are less sensitive to oxidative stress than single antisense plants lacking ascorbate peroxidase or catalase. <i>Plant Journal</i> , <b>2002</b> , 32, 329-42	6.9	279
14	The combined effect of drought stress and heat shock on gene expression in tobacco. <i>Plant Physiology</i> , <b>2002</b> , 130, 1143-51	6.6	740
13	Oxidative stress, antioxidants and stress tolerance. <i>Trends in Plant Science</i> , <b>2002</b> , 7, 405-10	13.1	6979
12	Living under a "dormant" canopy: a molecular acclimation mechanism of the desert plant <i>Retama raetam</i> . <i>Plant Journal</i> , <b>2001</b> , 25, 407-16	6.9	93
11	Transgene-induced lesion mimic. <i>Plant Molecular Biology</i> , <b>2000</b> , 44, 335-44	4.6	51
10	Signals controlling the expression of cytosolic ascorbate peroxidase during pathogen-induced programmed cell death in tobacco. <i>Plant Molecular Biology</i> , <b>1999</b> , 39, 1025-35	4.6	53
9	Post-Transcriptional Suppression of Cytosolic Ascorbate Peroxidase Expression during Pathogen-Induced Programmed Cell Death in Tobacco. <i>Plant Cell</i> , <b>1998</b> , 10, 461	11.6	5

8	Characterization of nuclease activities and DNA fragmentation induced upon hypersensitive response cell death and mechanical stress. <i>Plant Molecular Biology</i> , <b>1997</b> , 34, 209-21	4.6	63
7	Sacrifice in the face of foes: pathogen-induced programmed cell death in plants. <i>Trends in Microbiology</i> , <b>1996</b> , 4, 10-15	12.4	171
6	Regulation of pea cytosolic ascorbate peroxidase and other antioxidant enzymes during the progression of drought stress and following recovery from drought. <i>Plant Journal</i> , <b>1994</b> , 5, 397-405	6.9	361
5	Purification and characterization of pea cytosolic ascorbate peroxidase. <i>Plant Physiology</i> , <b>1991</b> , 97, 962-86.6		185
4	Molecular cloning and nucleotide sequence analysis of a cDNA encoding pea cytosolic ascorbate peroxidase. <i>FEBS Letters</i> , <b>1991</b> , 289, 257-9	3.8	76
3	Reactive Oxygen Signaling in Plants 189-201		4
2	A systemic whole-plant change in redox levels accompanies the rapid systemic response of Arabidopsis to wounding		1
1	Plasmodesmata-localized proteins and reactive oxygen species orchestrate light-induced rapid systemic signaling in Arabidopsis		1