

Frank Van Breusegem

List of Articles by Year in descending order

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190

PR articles

27,945

PR citations

5763

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5351

162

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citing authors

#	ARTICLE	IF	CITATIONS
1	The nuclear sulfenome of Arabidopsis: spotlight on histone acetyltransferase GCN5 regulation through functional thiols. <i>Journal of Experimental Botany</i> , 2025, 76, 1569-1584.	5.1	5
2	Hydrogen sulfide and protein persulfidation in plant stress signaling. <i>Journal of Experimental Botany</i> , 2025, 76, 3738-3757.	5.1	13
3	Lack of AtMC1 catalytic activity triggers autoimmunity dependent on NLR stability. <i>EMBO Reports</i> , 2025, 26, 2378-2412.	5.2	4
4	Cytosolic Monodehydroascorbate Reductase 2 Promotes Oxidative Stress Signaling in Arabidopsis. <i>Plant, Cell and Environment</i> , 2025, 48, 4966-4982.	6.5	2
5	Cysteine thiol sulfinic acid in plant stress signaling. <i>Plant, Cell and Environment</i> , 2024, 47, 2766-2779.	6.5	10
6	Redox regulation of chromatin remodelling in plants. <i>Plant, Cell and Environment</i> , 2024, 47, 2780-2792.	6.5	17
7	Redox regulation of gene expression: proteomics reveals multiple previously undescribed redox-sensitive cysteines in transcription complexes and chromatin modifiers. <i>Journal of Experimental Botany</i> , 2024, 75, 4476-4493.	5.1	10
8	Glutathione: a key modulator of plant defence and metabolism through multiple mechanisms. <i>Journal of Experimental Botany</i> , 2024, 75, 4549-4572.	5.1	72
9	The Plant PTM Viewer 2.0: in-depth exploration of plant protein modification landscapes. <i>Journal of Experimental Botany</i> , 2024, 75, 4611-4624.	5.1	23
10	Arabidopsis transcription factor ANAC102 predominantly expresses a nuclear protein and acts as a negative regulator of methyl viologen-induced oxidative stress responses. <i>Journal of Experimental Botany</i> , 2024, 75, 4655-4670.	5.1	5
11	Seed longevity is controlled by metacaspases. <i>Nature Communications</i> , 2024, 15, .	13.7	9
12	Scywalker: scalable end-to-end data analysis workflow for long-read single-cell transcriptome sequencing. <i>Bioinformatics</i> , 2024, 40, .	4.7	4
13	ERFVII-controlled hypoxia responses are in part facilitated by MEDIATOR SUBUNIT 25 in Arabidopsis thaliana. <i>Plant Journal</i> , 2024, 120, 748-768.	6.2	16
14	Functionally annotating cysteine disulfides and metal binding sites in the plant kingdom using AlphaFold2 predicted structures. <i>Free Radical Biology and Medicine</i> , 2023, 194, 220-229.	3.7	11
15	Cysteine thiol-based post-translational modification: What do we know about transcription factors?. <i>Trends in Plant Science</i> , 2023, 28, 415-428.	11.6	62
16	Metabolite modification in oxidative stress responses: A case study of two defense hormones. <i>Free Radical Biology and Medicine</i> , 2023, 196, 145-155.	3.7	5
17	Mechanisms controlling plant proteases and their substrates. <i>Cell Death and Differentiation</i> , 2023, 30, 1047-1058.	13.3	17
18	Mutation of Arabidopsis SME1 and Sm core assembly improves oxidative stress resilience. <i>Free Radical Biology and Medicine</i> , 2023, 200, 117-129.	3.7	5

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37	Integrative inference of transcriptional networks in Arabidopsis yields novel ROS signalling regulators. <i>Nature Plants</i> , 2021, 7, 500-513.	11.4	83
38	Reactive oxygen species and organellar signaling. <i>Journal of Experimental Botany</i> , 2021, 72, 5807-5824.	5.1	100
39	Photosynthesis and chloroplast redox signaling in the age of global warming: stress tolerance, acclimation, and developmental plasticity. <i>Journal of Experimental Botany</i> , 2021, 72, 5919-5937.	5.1	24
40	Hydrogen sulfide signaling in plant adaptations to adverse conditions: molecular mechanisms. <i>Journal of Experimental Botany</i> , 2021, 72, 5893-5904.	5.1	91
41	Stress effects on the reactive oxygen species-dependent regulation of plant growth and development. <i>Journal of Experimental Botany</i> , 2021, 72, 5795-5806.	5.1	67
42	Periodic root branching is influenced by light through an HY1-HY5-auxin pathway. <i>Current Biology</i> , 2021, 31, 3834-3847.e5.	3.6	40
43	Contemporary proteomic strategies for cysteine redoxome profiling. <i>Plant Physiology</i> , 2021, 186, 110-124.	5.5	17
44	On the move: redox-dependent protein relocation in plants. <i>Journal of Experimental Botany</i> , 2020, 71, 620-631.	5.1	63
45	Molecular priming as an approach to induce tolerance against abiotic and oxidative stresses in crop plants. <i>Biotechnology Advances</i> , 2020, 40, 107503.	11.8	199
46	Novel Role of JAC1 in Influencing Photosynthesis, Stomatal Conductance, and Photooxidative Stress Signalling Pathway in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2020, 11, .	4.1	6
47	Chemical Genetics Approach Identifies Abnormal Inflorescence Meristem 1 as a Putative Target of a Novel Sulfonamide That Protects Catalase2-Deficient Arabidopsis against Photorespiratory Stress. <i>Cells</i> , 2020, 9, 2026.	4.7	3
48	Identification of Sulfenylated Cysteines in Arabidopsis thaliana Proteins Using a Disulfide-Linked Peptide Reporter. <i>Frontiers in Plant Science</i> , 2020, 11, .	4.1	44
49	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. <i>Molecular Cell</i> , 2020, 77, 927-929.	13.3	89
50	Gold and Palladium Mediated Bimetallic Catalysis: Mechanistic Investigation through the Isolation of the Organogold(I) Intermediates. <i>ACS Catalysis</i> , 2019, 9, 7862-7869.	12.4	16
51	Mining for protein S-sulfenylation in <i>Arabidopsis</i> uncovers redox-sensitive sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21256-21261.	7.5	148
52	The Plant PTM Viewer, a central resource for exploring plant protein modifications. <i>Plant Journal</i> , 2019, 99, 752-762.	6.2	135
53	Plant proteases and programmed cell death. <i>Journal of Experimental Botany</i> , 2019, 70, 1991-1995.	5.1	30
54	Damage on plants activates Ca ²⁺ -dependent metacaspases for release of immunomodulatory peptides. <i>Science</i> , 2019, 363, .	36.2	250

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55	Secondary sulfur metabolism in cellular signalling and oxidative stress responses. <i>Journal of Experimental Botany</i> , 2019, 70, 4237-4250.	5.1	85
56	Bifunctional Chloroplastic DJ-1B from <i>Arabidopsis thaliana</i> is an Oxidation-Robust Holdase and a Glyoxalase Sensitive to H ₂ O ₂ . <i>Antioxidants</i> , 2019, 8, 8.	5.8	23
57	Extracellular peptide Kratos restricts cell death during vascular development and stress in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 2199-2210.	5.1	16
58	Caught green-handed: methods for in vivo detection and visualization of protease activity. <i>Journal of Experimental Botany</i> , 2019, 70, 2125-2141.	5.1	13
59	<i>In vivo</i> detection of protein cysteine sulfenylation in plastids. <i>Plant Journal</i> , 2019, 97, 765-778.	6.2	58
60	Mitochondrial function modulates touch signalling in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2019, 97, 623-645.	6.2	36
61	Protein Promiscuity in H ₂ O ₂ Signaling, Antioxidants and Redox Signaling, 2019, 30, 1285-1324.	6.3	35
62	Post-transcriptional regulation of the oxidative stress response in plants. <i>Free Radical Biology and Medicine</i> , 2018, 122, 181-192.	3.7	48
63	Pathways crossing mammalian and plant sulfenomic landscapes. <i>Free Radical Biology and Medicine</i> , 2018, 122, 193-201.	3.7	37
64	Redox-dependent control of nuclear transcription in plants. <i>Journal of Experimental Botany</i> , 2018, 69, 3359-3372.	5.1	107
65	The function of two type II metacaspases in woody tissues of <i>Populus</i> trees. <i>New Phytologist</i> , 2018, 217, 1551-1565.	8.1	34
66	Self-protection of cytosolic malate dehydrogenase against oxidative stress in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 3491-3505.	5.1	58
67	AtSERPIN1 is an inhibitor of the metacaspase AtMC1-mediated cell death and autocatalytic processing in planta. <i>New Phytologist</i> , 2018, 218, 1156-1166.	8.1	57
68	Disulfide bond formation protects <i>Arabidopsis thaliana</i> glutathione transferase tau 23 from oxidative damage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 775-789.	2.0	21
69	Corrigendum to "European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS)" [Redox Biol. 13 (2017) 94-162]. <i>Redox Biology</i> , 2018, 14, 694-696.	10.8	15
70	Domino reaction of a gold catalyzed 5-endo-dig cyclization and a [3,3]-sigmatropic rearrangement towards polysubstituted pyrazoles. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 9359-9363.	2.6	9
71	Reactive oxygen species in plant development. <i>Development (Cambridge)</i> , 2018, 145, .	3.1	584
72	<i>Arabidopsis thaliana</i> dehydroascorbate reductase 2: Conformational flexibility during catalysis. <i>Scientific Reports</i> , 2017, 7, .	3.4	14

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73	The Transcription Factor MYB29 Is a Regulator of ALTERNATIVE OXIDASE1a. <i>Plant Physiology</i> , 2017, 173, 1824-1843.	5.5	53
74	N-terminal Proteomics Assisted Profiling of the Unexplored Translation Initiation Landscape in <i>Arabidopsis thaliana</i> . <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1064-1080.	3.0	61
75	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017, 13, 94-162.	10.8	283
76	The dual role of LESION SIMULATING DISEASE 1 as a conditionâ€dependent scaffold protein and transcription regulator. <i>Plant, Cell and Environment</i> , 2017, 40, 2644-2662.	6.5	43
77	Identification of dimedone-trapped sulfenylated proteins in plants under stress. <i>Biochemistry and Biophysics Reports</i> , 2017, 9, 106-113.	1.3	21
78	A chemoselective and continuous synthesis of m-sulfamoylbenzamide analogues. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 303-312.	1.9	6
79	Lack of GLYCOLATE OXIDASE1, but Not GLYCOLATE OXIDASE2, Attenuates the Photorespiratory Phenotype of CATALASE2-Deficient <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2016, 171, 1704-1719.	5.5	112
80	Interaction between hormonal and mitochondrial signalling during growth, development and in plant defence responses. <i>Plant, Cell and Environment</i> , 2016, 39, 1127-1139.	6.5	92
81	Overexpression of GA20â€OXIDASE1 impacts plant height, biomass allocation and saccharification efficiency in maize. <i>Plant Biotechnology Journal</i> , 2016, 14, 997-1007.	8.8	70
82	Mitochondrial and Chloroplast Stress Responses Are Modulated in Distinct Touch and Chemical Inhibition Phases. <i>Plant Physiology</i> , 2016, 171, 2150-2165.	5.5	94
83	Cytokinin Response Factor 6 Represses Cytokinin-Associated Genes during Oxidative Stress. <i>Plant Physiology</i> , 2016, , pp.00415.2016.	5.5	92
84	Mitochondrial Defects Confer Tolerance against Cellulose Deficiency. <i>Plant Cell</i> , 2016, 28, 2276-2290.	7.6	70
85	RBOH-mediated ROS production facilitates lateral root emergence in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2016, , .	3.1	179
86	Low-steady-state metabolism induced by elevated CO ₂ increases resilience to UV radiation in the unicellular green-algae <i>Dunaliella tertiolecta</i> . <i>Environmental and Experimental Botany</i> , 2016, 132, 163-174.	4.7	16
87	Identification of Differentially Expressed Genes during Lace Plant Leaf Development. <i>International Journal of Plant Sciences</i> , 2016, 177, 419-431.	1.4	4
88	SHORT-ROOT Deficiency Alleviates the Cell Death Phenotype of the <i>Arabidopsis catalase2</i> Mutant under Photorespiration-Promoting Conditions. <i>Plant Cell</i> , 2016, 28, 1844-1859.	7.6	49
89	The SBT6.1 subtilase processes the GOLVEN1 peptide controlling cell elongation. <i>Journal of Experimental Botany</i> , 2016, 67, 4877-4887.	5.1	67
90	The ROS Wheel: Refining ROS Transcriptional Footprints. <i>Plant Physiology</i> , 2016, 171, 1720-1733.	5.5	154

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91	Sequence-specific protein aggregation generates defined protein knockdowns in plants. <i>Plant Physiology</i> , 2016, , pp.00335.2016.	5.5	26
92	Diagonal chromatography to study plant protein modifications. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 945-951.	2.0	0
93	Kresoxim-methyl primes <i>Medicago truncatula</i> plants against abiotic stress factors via altered reactive oxygen and nitrogen species signalling leading to downstream transcriptional and metabolic readjustment. <i>Journal of Experimental Botany</i> , 2016, 67, 1259-1274.	5.1	37
94	Spreading the news: subcellular and organellar reactive oxygen species production and signalling. <i>Journal of Experimental Botany</i> , 2016, 67, 3831-3844.	5.1	445
95	The Need to Understand GMO Opposition: Reply to CouÃ©e. <i>Trends in Plant Science</i> , 2016, 21, 92.	11.6	4
96	Arabidopsis Ensemble Reverse-Engineered Gene Regulatory Network Discloses Interconnected Transcription Factors in Oxidative Stress. <i>Plant Cell</i> , 2015, 26, 4656-4679.	7.6	87
97	GROWTH REGULATING FACTOR5 Stimulates Arabidopsis Chloroplast Division, Photosynthesis, and Leaf Longevity Ã. <i>Plant Physiology</i> , 2015, 167, 817-832.	5.5	127
98	Oxidative post-translational modifications of cysteine residues in plant signal transduction. <i>Journal of Experimental Botany</i> , 2015, 66, 2923-2934.	5.1	188
99	Selection for Improved Energy Use Efficiency and Drought Tolerance in Canola Results in Distinct Transcriptome and Epigenome Changes. <i>Plant Physiology</i> , 2015, 168, 1338-1350.	5.5	57
100	Redox Strategies for Crop Improvement. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 1186-1205.	6.3	25
101	DYn-2 Based Identification of Arabidopsis Sulfenomes*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1183-1200.	3.0	79
102	Protein Methionine Sulfoxide Dynamics in Arabidopsis thaliana under Oxidative Stress. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1217-1229.	3.0	98
103	Cysteines under ROS attack in plants: a proteomics view. <i>Journal of Experimental Botany</i> , 2015, 66, 2935-2944.	5.1	131
104	Licensed to Kill: Mitochondria, Chloroplasts, and Cell Death. <i>Trends in Plant Science</i> , 2015, 20, 754-766.	11.6	200
105	Zeatin modulates flower bud development and tocopherol levels in <i>Cistus albidus</i> (L.) plants as they age. <i>Plant Biology</i> , 2015, 17, 90-96.	4.2	9
106	Cytokinin response factors regulate PIN-FORMED auxin transporters. <i>Nature Communications</i> , 2015, 6, .	13.7	134
107	ARACINs, Brassicaceae-Specific Peptides Exhibiting Antifungal Activities against Necrotrophic Pathogens in Arabidopsis Ã. <i>Plant Physiology</i> , 2015, 167, 1017-1029.	5.5	24
108	GRIM REAPER peptide binds to receptor kinase PRK 5 to trigger cell death in Arabidopsis. <i>EMBO Journal</i> , 2015, 34, 55-66.	7.3	101

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109	Activation of auxin signalling counteracts photorespiratory H ₂ O ₂ -dependent cell death. <i>Plant, Cell and Environment</i> , 2015, 38, 253-265.	6.5	53
110	The mitochondrial outer membrane AAA ATPase AtOM66 affects cell death and pathogen resistance in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 80, 709-727.	6.2	99
111	Anterograde and Retrograde Regulation of Nuclear Genes Encoding Mitochondrial Proteins during Growth, Development, and Stress. <i>Molecular Plant</i> , 2014, 7, 1075-1093.	18.9	184
112	Transcriptional coordination between leaf cell differentiation and chloroplast development established by TCP20 and the subgroup Ib bHLH transcription factors. <i>Plant Molecular Biology</i> , 2014, 85, 233-245.	3.2	39
113	A Generic Tool for Transcription Factor Target Gene Discovery in <i>Arabidopsis</i> Cell Suspension Cultures Based on Tandem Chromatin Affinity Purification. <i>Plant Physiology</i> , 2014, 164, 1122-1133.	5.5	45
114	Sulfenome mining in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11545-11550.	7.5	179
115	Spatial H ₂ O ₂ Signaling Specificity: H ₂ O ₂ from Chloroplasts and Peroxisomes Modulates the Plant Transcriptome Differentially. <i>Molecular Plant</i> , 2014, 7, 1191-1210.	18.9	189
116	Mitochondrial Perturbation Negatively Affects Auxin Signaling. <i>Molecular Plant</i> , 2014, 7, 1138-1150.	18.9	67
117	Multivariable environmental conditions promote photosynthetic adaptation potential in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , 2013, 170, 548-559.	4.1	38
118	The <i>Arabidopsis</i> METACASPASE9 Degradome. <i>Plant Cell</i> , 2013, 25, 2831-2847.	7.6	125
119	Plant proteins under oxidative attack. <i>Proteomics</i> , 2013, 13, 932-940.	3.1	55
120	Post mortem function of AtMC9 in xylem vessel elements. <i>New Phytologist</i> , 2013, 200, 498-510.	8.1	135
121	The Membrane-Bound NAC Transcription Factor ANAC013 Functions in Mitochondrial Retrograde Regulation of the Oxidative Stress Response in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3472-3490.	7.6	359
122	Cryptogein-Induced Transcriptional Reprogramming in Tobacco Is Light Dependent. <i>Plant Physiology</i> , 2013, 163, 263-275.	5.5	10
123	Catalase and NO CATALASE ACTIVITY1 Promote Autophagy-Dependent Cell Death in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 4616-4626.	7.6	113
124	Towards a carbon-negative sustainable bio-based economy. <i>Frontiers in Plant Science</i> , 2013, 4, .	4.1	136
125	A Membrane-Bound NAC Transcription Factor, ANAC017, Mediates Mitochondrial Retrograde Signaling in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3450-3471.	7.6	341
126	LESION SIMULATING DISEASE1, ENHANCED DISEASE SUSCEPTIBILITY1, and PHYTOALEXIN DEFICIENT4 Conditionally Regulate Cellular Signaling Homeostasis, Photosynthesis, Water Use Efficiency, and Seed Yield in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 161, 1795-1805.	5.5	119

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145	Prohibitins: mitochondrial partners in development and stress response. <i>Trends in Plant Science</i> , 2010, 15, 275-282.	11.6	71
146	Catalase function in plants: a focus on Arabidopsis mutants as stress-mimic models. <i>Journal of Experimental Botany</i> , 2010, 61, 4197-4220.	5.1	886
147	Energy use efficiency is characterized by an epigenetic component that can be directed through artificial selection to increase yield. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20109-20114.	7.5	196
148	Developmental Stage Specificity and the Role of Mitochondrial Metabolism in the Response of Arabidopsis Leaves to Prolonged Mild Osmotic Stress. <i>Plant Physiology</i> , 2009, 152, 226-244.	5.5	290
149	Mitochondrial respiratory pathways modulate nitrate sensing and nitrogen-dependent regulation of plant architecture in <i>Nicotiana glauca</i> . <i>Plant Journal</i> , 2008, 54, 976-992.	6.2	60
150	Unraveling the Tapestry of Networks Involving Reactive Oxygen Species in Plants. <i>Plant Physiology</i> , 2008, 147, 978-984.	5.5	223
151	A Temperature-sensitive Mutation in the Arabidopsis thaliana Phosphomannomutase Gene Disrupts Protein Glycosylation and Triggers Cell Death. <i>Journal of Biological Chemistry</i> , 2008, 283, 5708-5718.	2.2	65
152	Hydrogen Peroxide-Induced Gene Expression across Kingdoms: A Comparative Analysis. <i>Molecular Biology and Evolution</i> , 2008, 25, 507-516.	4.7	126
153	Singlet Oxygen Is the Major Reactive Oxygen Species Involved in Photooxidative Damage to Plants. <i>Plant Physiology</i> , 2008, 148, 960-968.	5.5	541
154	Silencing of poly(ADP-ribose) polymerase in plants alters abiotic stress signal transduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15150-15155.	7.5	160
155	Metacaspase Activity of Arabidopsis thaliana Is Regulated by S-Nitrosylation of a Critical Cysteine Residue. <i>Journal of Biological Chemistry</i> , 2007, 282, 1352-1358.	2.2	214
156	Resistance to Botrytis cinerea in sitiens, an Abscisic Acid-Deficient Tomato Mutant, Involves Timely Production of Hydrogen Peroxide and Cell Wall Modifications in the Epidermis. <i>Plant Physiology</i> , 2007, 144, 1863-1877.	5.5	378
157	Are metacaspases caspases?. <i>Journal of Cell Biology</i> , 2007, 179, 375-380.	5.4	172
158	Conditional oxidative stress responses in the Arabidopsis photorespiratory mutant cat2 demonstrate that redox state is a key modulator of daylength-dependent gene expression, and define photoperiod as a crucial factor in the regulation of H ₂ O ₂ -induced cell death. <i>Plant Journal</i> , 2007, 52, 640-657.	6.2	429
159	Mitochondrial type I prohibitins of Arabidopsis thaliana are required for supporting proficient meristem development. <i>Plant Journal</i> , 2007, 52, 850-864.	6.2	126
160	Reactive Oxygen Species in Plant Cell Death. <i>Plant Physiology</i> , 2006, 141, 384-390.	5.5	904
161	Serpin1 of Arabidopsis thaliana is a Suicide Inhibitor for Metacaspase 9. <i>Journal of Molecular Biology</i> , 2006, 364, 625-636.	4.1	180
162	Induction of systemic resistance in tomato by N-acyl-L-homoserine lactone-producing rhizosphere bacteria. <i>Plant, Cell and Environment</i> , 2006, 29, 909-918.	6.5	454

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163	Reactive oxygen species as signals that modulate plant stress responses and programmed cell death. <i>BioEssays</i> , 2006, 28, 1091-1101.	2.1	1,036
164	Transcriptomic Footprints Disclose Specificity of Reactive Oxygen Species Signaling in Arabidopsis. <i>Plant Physiology</i> , 2006, 141, 436-445.	5.5	713
165	Nitric Oxide- and Hydrogen Peroxide-Responsive Gene Regulation during Cell Death Induction in Tobacco. <i>Plant Physiology</i> , 2006, 141, 404-411.	5.5	183
166	Fatty Acid Hydroperoxides and H ₂ O ₂ in the Execution of Hypersensitive Cell Death in Tobacco Leaves. <i>Plant Physiology</i> , 2005, 138, 1516-1526.	5.5	344
167	Genome-Wide Analysis of Hydrogen Peroxide-Regulated Gene Expression in Arabidopsis Reveals a High Light-Induced Transcriptional Cluster Involved in Anthocyanin Biosynthesis. <i>Plant Physiology</i> , 2005, 139, 806-821.	5.5	495
168	Type II Metacaspases Atmc4 and Atmc9 of Arabidopsis thaliana Cleave Substrates after Arginine and Lysine. <i>Journal of Biological Chemistry</i> , 2004, 279, 45329-45336.	2.2	328
169	Catalase deficiency drastically affects gene expression induced by high light in Arabidopsis thaliana. <i>Plant Journal</i> , 2004, 39, 45-58.	6.2	307
170	A technology platform for the fast production of monoclonal recombinant antibodies against plant proteins and peptides. <i>Journal of Immunological Methods</i> , 2004, 294, 181-187.	1.4	14
171	Reactive oxygen gene network of plants. <i>Trends in Plant Science</i> , 2004, 9, 490-498.	11.6	5,137
172	Changes in hydrogen peroxide homeostasis trigger an active cell death process in tobacco. <i>Plant Journal</i> , 2003, 33, 621-632.	6.2	281
173	A comprehensive analysis of hydrogen peroxide-induced gene expression in tobacco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 16113-16118.	7.5	317
174	Transcriptome analysis during cell division in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14825-14830.	7.5	141
175	Signal transduction during oxidative stress. <i>Journal of Experimental Botany</i> , 2002, 53, 1227-1236.	5.1	668
176	Hydrogen peroxide protects tobacco from oxidative stress by inducing a set of antioxidant enzymes. <i>Cellular and Molecular Life Sciences</i> , 2002, 59, 708-714.	5.5	239
177	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> , 2002, 32, 329-342.	6.2	317
178	The role of active oxygen species in plant signal transduction. <i>Plant Science</i> , 2001, 161, 405-414.	4.0	517
179	o-Phenylenediamine-induced DNA damage and mutagenicity in tobacco seedlings is light-dependent. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2001, 495, 117-125.	2.0	33
180	Catalase-deficient tobacco plants: tools for in planta studies on the role of hydrogen peroxide. <i>Redox Report</i> , 2001, 6, 37-42.	6.2	72

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181	Dual action of the active oxygen species during plant stress responses. Cellular and Molecular Life Sciences, 2000, 57, 779-795.	5.5	1,695
182	Overproduction of Arabidopsis thaliana FeSOD Confers Oxidative Stress Tolerance to Transgenic Maize. Plant and Cell Physiology, 1999, 40, 515-523.	3.4	124
183	Effects of overproduction of tobacco MnSOD in maize chloroplasts on foliar tolerance to cold and oxidative stress. Journal of Experimental Botany, 1999, 50, 71-78.	5.1	106
184	Tolerance to low temperature and paraquat-mediated oxidative stress in two maize genotypes. Journal of Experimental Botany, 1999, 50, 523-532.	5.1	46
185	Effects of overproduction of tobacco MnSOD in maize chloroplasts on foliar tolerance to cold and oxidative stress. Journal of Experimental Botany, 1999, 50, 71-78.	5.1	33
186	Engineering Stress Tolerance in Maize. Outlook on Agriculture, 1998, 27, 115-124.	2.3	35
187	Ascorbate Peroxidase cDNA from Maize. Plant Physiology, 1995, 107, 649-650.	5.5	22
188	Heat-inducible rice hsp82 and hsp70 are not always co-regulated. Planta, 1994, 193, 57-66.	3.3	25
189	Characterization of a S-Adenosylmethionine Synthetase Gene in Rice. Plant Physiology, 1994, 105, 1463-1464.	5.5	57
190	Arabidopsis RCD1 coordinates chloroplast and mitochondrial functions through interaction with ANAC transcription factors. ELife, 0, 8, .	1.6	160