Francisco Corpas

List of Publications by Year
in descending order

275 papers	22,360 citations	5268 83 h-index	11052 137 g-index
283 all docs	283 docs citations	283 times ranked	11243 citing authors

#	Article	IF	Citations
1	Functions of Melatonin during Postharvest of Horticultural Crops. Plant and Cell Physiology, 2023, 63, 1764-1786.	3.1	51
2	Nitric oxide and hydrogen sulfide share regulatory functions in higher plant events. Biocell, 2022, 46, 1-5.	0.7	3
3	Metalloids in plant biology: New avenues in their research. Journal of Hazardous Materials, 2022, 422, 126738.	12.4	3
4	Irradiated chitosan (ICH): an alternative tool to increase essential oil content in lemongrass (Cymbopogon flexuosus). Acta Physiologiae Plantarum, 2022, 44, 1.	2.1	12
5	Silica nanoparticles: the rising star in plant disease protection. Trends in Plant Science, 2022, 27, 7-9.	8.8	16
6	Influence of metallic, metallic oxide, and organic nanoparticles on plant physiology. Chemosphere, 2022, 290, 133329.	8.2	37
7	Editorial: Recent Insights Into the Double Role of Hydrogen Peroxide in Plants. Frontiers in Plant Science, 2022, 13, 843274.	3.6	10
8	Nitric oxide and hydrogen sulfide share regulatory functions in higher plant events. Biocell, 2022, 46, 1-5.	0.7	7
9	NO source in higher plants: present and future of an unresolved question. Trends in Plant Science, 2022, 27, 116-119.	8.8	33
10	Unravelling salt tolerance mechanisms in plants: From lab to field. Plant Physiology and Biochemistry, 2022, 176, 31-33.	5.8	10
11	RIPK: a crucial ROS signaling component in plants. Trends in Plant Science, 2022, 27, 214-216.	8.8	7
12	Hydrogen sulfide: an emerging component against abiotic stress in plants. Plant Biology, 2022, 24, 540-558.	3.8	46
13	Potassium (K+) Starvation-Induced Oxidative Stress Triggers a General Boost of Antioxidant and NADPH-Generating Systems in the Halophyte Cakile maritima. Antioxidants, 2022, 11, 401.	5.1	12
14	Nitric oxideâ€releasing nanomaterials: from basic research to potential biotechnological applications in agriculture. New Phytologist, 2022, 234, 1119-1125.	7.3	21
15	Thiol-based Oxidative Posttranslational Modifications (OxiPTMs) of Plant Proteins. Plant and Cell Physiology, 2022, 63, 889-900.	3.1	29
16	Interactions of melatonin, reactive oxygen species, and nitric oxide during fruit ripening: an update and prospective view. Journal of Experimental Botany, 2022, 73, 5947-5960.	4.8	34
17	Nitric Oxide (NO) Differentially Modulates the Ascorbate Peroxidase (APX) Isozymes of Sweet Pepper (Capsicum annuum L.) Fruits. Antioxidants, 2022, 11, 765.	5.1	18
18	HPCA1 and HSL3: two plasma membrane proteins that probably cooperate to modulate H2O2 signalling under drought conditions. Plant Growth Regulation, 2022, 98, 1-3.	3.4	3

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19	Peroxisomal Proteome Mining of Sweet Pepper (Capsicum annuum L.) Fruit Ripening Through Whole Isobaric Tags for Relative and Absolute Quantitation Analysis. Frontiers in Plant Science, 2022, 13, .	3.6	5
20	Nitric oxide, salicylic acid and oxidative stress: Is it a perfect equilateral triangle?. Plant Physiology and Biochemistry, 2022, 184, 56-64.	5.8	8
21	H2S in Horticultural Plants: Endogenous Detection by an Electrochemical Sensor, Emission by a Gas Detector, and Its Correlation with L-Cysteine Desulfhydrase (LCD) Activity. International Journal of Molecular Sciences, 2022, 23, 5648.	4.1	11
22	Mitochondrial protein expression during sweet pepper (Capsicum annuum L.) fruit ripening: iTRAQ-based proteomic analysis and role of cytochrome c oxidase. Journal of Plant Physiology, 2022, 274, 153734.	3.5	11
23	Light: a crucial factor for rhizobium-induced root nodulation. Trends in Plant Science, 2022, 27, 955-957.	8.8	2
24	Auxin metabolic network regulates the plant response to metalloids stress. Journal of Hazardous Materials, 2021, 405, 124250.	12.4	47
25	Main nitric oxide (NO) hallmarks to relieve arsenic stress in higher plants. Journal of Hazardous Materials, 2021, 406, 124289.	12.4	68
26	Multifaceted roles of nitric oxide in tomato fruit ripening: NO-induced metabolic rewiring and consequences for fruit quality traits. Journal of Experimental Botany, 2021, 72, 941-958.	4.8	57
27	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. Journal of Hazardous Materials, 2021, 408, 124820.	12.4	55
28	Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. Journal of Experimental Botany, 2021, 72, 4457-4471.	4.8	53
29	Nitric oxide and hydrogen sulfide modulate the NADPH-generating enzymatic system in higher plants. Journal of Experimental Botany, 2021, 72, 830-847.	4.8	42
30	Hydrogen Sulfide and Fruit Ripening. Plant in Challenging Environments, 2021, , 109-121.	0.4	1
31	Nitric Oxide and Hydrogen Sulfide Coordinately Reduce Glucose Sensitivity and Decrease Oxidative Stress via Ascorbate-Glutathione Cycle in Heat-Stressed Wheat (Triticum aestivum L.) Plants. Antioxidants, 2021, 10, 108.	5.1	67
32	Nitric Oxide (NO) Scaffolds the Peroxisomal Proteinâ€“Protein Interaction Network in Higher Plants. International Journal of Molecular Sciences, 2021, 22, 2444.	4.1	14
33	Editorial: Subcellular Compartmentalization of Plant Antioxidants and ROS Generating Systems. Frontiers in Plant Science, 2021, 12, 643239.	3.6	4
34	Loss of function of the chloroplast membrane K+/H+ antiporters AtKEA1 and AtKEA2 alters the ROS and NO metabolism but promotes drought stress resilience. Plant Physiology and Biochemistry, 2021, 160, 106-119.	5.8	27
35	Plant hydrogen sulfide under physiological and adverse environments. Plant Physiology and Biochemistry, 2021, 161, 46-47.	5.8	3
36	Identification of Compounds with Potential Therapeutic Uses from Sweet Pepper (Capsicum annuum L.) Fruits and Their Modulation by Nitric Oxide (NO). International Journal of Molecular Sciences, 2021, 22, 4476.	4.1	18

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37	Crosstalk between abscisic acid and nitric oxide under heat stress: exploring new vantage points. Plant Cell Reports, 2021, 40, 1429-1450.	5.6	30
38	Nitric oxide (NO) and salicylic acid (SA): A framework for their relationship in plant development under abiotic stress. Plant Biology, 2021, 23, 39-49.	3.8	51
39	Silicon nanoparticles elicit an increase in lemongrass (Cymbopogon flexuosus (Steud.) Wats) agronomic parameters with a higher essential oil yield. Journal of Hazardous Materials, 2021, 412, 125254.	12.4	59
40	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. Trends in Plant Science, 2021, 26, 1270-1285.	8.8	90
41	Hydrogen sulfide (H2S) underpins the beneficial silicon effects against the copper oxide nanoparticles (CuO NPs) phytotoxicity in Oryza sativa seedlings. Journal of Hazardous Materials, 2021, 415, 124907.	12.4	29
42	Vision, challenges and opportunities for a Plant Cell Atlas. ELife, 2021, 10, .	6.0	31
43	Protein nitration: A connecting bridge between nitric oxide (NO) and plant stress. Plant Stress, 2021, 2, 100026.	5.5	30
44	Tryptophan: A Precursor of Signaling Molecules in Higher Plants. Plant in Challenging Environments, 2021, , 273-289.	0.4	4
45	The Modus Operandi of Hydrogen Sulfide(H2S)-Dependent Protein Persulfidation in Higher Plants. Antioxidants, 2021, 10, 1686.	5.1	19
46	Spermine-Mediated Tolerance to Selenium Toxicity in Wheat (Triticum aestivum L.) Depends on Endogenous Nitric Oxide Synthesis. Antioxidants, 2021, 10, 1835.	5.1	21
47	Transcriptomic Profiling of Fruits from Pepper (Capsicum annuum L.), Variety PadrÃ³n (Mild Hot), at Two Ripening States. Biology and Life Sciences Forum, 2021, 3, 16.	0.6	0
48	Urate oxidase is modulated by NO-derived post-translational modifications during the ripening of sweet pepper fruit. Free Radical Biology and Medicine, 2021, 177, S99-S100.	2.9	0
49	Inhibition of NADPâ€malic enzyme activity by H₂S and NO in sweet pepper (<i>Capsicum) Tj ETQq1 1 0.784314 rgBT /Ove	5.2	57
50	Recommendations on terminology and experimental best practice associated with plant nitric oxide research. New Phytologist, 2020, 225, 1828-1834.	7.3	56
51	Appraisal of H2S metabolism in Arabidopsis thaliana: In silico analysis at the subcellular level. Plant Physiology and Biochemistry, 2020, 155, 579-588.	5.8	41
52	Crosstalk among hydrogen sulfide (H2S), nitric oxide (NO) and carbon monoxide (CO) in root-system development and its rhizosphere interactions: A gaseous interactome. Plant Physiology and Biochemistry, 2020, 155, 800-814.	5.8	64
53	Antioxidant Profile of Pepper (Capsicum annuum L.) Fruits Containing Diverse Levels of Capsaicinoids. Antioxidants, 2020, 9, 878.	5.1	21
54	Reactive Oxygen Species (ROS) Metabolism and Nitric Oxide (NO) Content in Roots and Shoots of Rice (Oryza sativa L.) Plants under Arsenic-Induced Stress. Agronomy, 2020, 10, 1014.	3.0	26

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55	NADPH as a quality footprinting in horticultural crops marketability. Trends in Food Science and Technology, 2020, 103, 152-161.	15.1	32
56	Nitric oxide: A radical molecule with potential biotechnological applications in fruit ripening. Journal of Biotechnology, 2020, 324, 211-219.	3.8	36
57	Nitric oxide and hydrogen sulfide protect plasma membrane integrity and mitigate chromium-induced methylglyoxal toxicity in maize seedlings. Plant Physiology and Biochemistry, 2020, 157, 244-255.	5.8	68
58	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. Journal of Hazardous Materials, 2020, 398, 122882.	12.4	213
59	Salicylic acid-induced nitric oxide enhances arsenic toxicity tolerance in maize plants by upregulating the ascorbate-glutathione cycle and glyoxalase system. Journal of Hazardous Materials, 2020, 399, 123020.	12.4	160
60	Plant catalases as NO and H2S targets. Redox Biology, 2020, 34, 101525.	9.0	125
61	Superoxide Radical Metabolism in Sweet Pepper (Capsicum annuum L.) Fruits Is Regulated by Ripening and by a NO-Enriched Environment. Frontiers in Plant Science, 2020, 11, 485.	3.6	37
62	Plant Peroxisomes: A Factory of Reactive Species. Frontiers in Plant Science, 2020, 11, 853.	3.6	73
63	Cadmium and arsenic-induced-stress differentially modulates Arabidopsis root architecture, peroxisome distribution, enzymatic activities and their nitric oxide content. Plant Physiology and Biochemistry, 2020, 148, 312-323.	5.8	64
64	Regulating the regulator: nitric oxide control of postâ€translational modifications. New Phytologist, 2020, 227, 1319-1325.	7.3	91
65	H2S signaling in plants and applications in agriculture. Journal of Advanced Research, 2020, 24, 131-137.	9.5	146
66	Fluorimetric-Based Method to Detect and Quantify Total S-Nitrosothiols (SNOs) in Plant Samples. Methods in Molecular Biology, 2020, 2057, 37-43.	0.9	1
67	Arsenate disrupts ion balance, sulfur and nitric oxide metabolisms in roots and leaves of pea (Pisum) Tj ETQq1 1 0.784314 rgBT /Overlo	4.2	72
68	Drought stress triggers the accumulation of NO and SNOs in cortical cells of Lotus japonicus L. roots and the nitration of proteins with relevant metabolic function. Environmental and Experimental Botany, 2019, 161, 228-241.	4.2	21
69	Pomegranate (Punica granatum L.) Fruits: Characterization of the Main Enzymatic Antioxidants (Peroxisomal Catalase and SOD Isozymes) and the NADPH-Regenerating System. Agronomy, 2019, 9, 338.	3.0	6
70	Nitric oxide in the physiology and quality of fleshy fruits. Journal of Experimental Botany, 2019, 70, 4405-4417.	4.8	83
71	Nitric Oxide and Hydrogen Sulfide in Higher Plants under Physiological and Stress Conditions. Antioxidants, 2019, 8, 457.	5.1	26
72	Hydrogen Sulfide: A New Warrior against Abiotic Stress. Trends in Plant Science, 2019, 24, 983-988.	8.8	104

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73	Sweet Pepper (Capsicum annuum L.) Fruits Contain an Atypical Peroxisomal Catalase That Is Modulated by Reactive Oxygen and Nitrogen Species. Antioxidants, 2019, 8, 374.	5.1	51
74	Short-Term Low Temperature Induces Nitro-Oxidative Stress that Deregulates the NADP-Malic Enzyme Function by Tyrosine Nitration in Arabidopsis thaliana. Antioxidants, 2019, 8, 448.	5.1	19
75	A forty year journey: The generation and roles of NO in plants. Nitric Oxide - Biology and Chemistry, 2019, 93, 53-70.	2.7	209
76	Hydrogen sulfide: A novel component in <i>Arabidopsis</i> peroxisomes which triggers catalase inhibition. Journal of Integrative Plant Biology, 2019, 61, 871-883.	8.5	108
77	Nitric oxide and hydrogen sulfide in plants: which comes first?. Journal of Experimental Botany, 2019, 70, 4391-4404.	4.8	206
78	Peroxisomes in higher plants: an example of metabolic adaptability. Botany Letters, 2019, 166, 298-308.	1.4	4
79	Editorial: Fruit Ripening: From Present Knowledge to Future Development. Frontiers in Plant Science, 2019, 10, 545.	3.6	8
80	Nitric oxide-dependent regulation of sweet pepper fruit ripening. Journal of Experimental Botany, 2019, 70, 4557-4570.	4.8	84
81	Biotechnological Application of Nitric Oxide and Hydrogen Peroxide in Plants. , 2019, , 245-270.		10
82	Hydrogen Peroxide and Nitric Oxide Generation in Plant Cells: Overview and Queries. , 2019, , 1-16.		5
83	Revisiting the role of ROS and RNS in plants under changing environment. Environmental and Experimental Botany, 2019, 161, 1-3.	4.2	136
84	Impact of Nitric Oxide (NO) on the ROS Metabolism of Peroxisomes. Plants, 2019, 8, 37.	3.5	40
85	NADPH Oxidase (Rboh) Activity is Up Regulated during Sweet Pepper (Capsicum annuum L.) Fruit Ripening. Antioxidants, 2019, 8, 9.	5.1	61
86	Assessment of Subcellular ROS and NO Metabolism in Higher Plants: Multifunctional Signaling Molecules. Antioxidants, 2019, 8, 641.	5.1	310
87	Plant peroxisomes at the crossroad of NO and H₂O₂ metabolism. Journal of Integrative Plant Biology, 2019, 61, 803-816.	8.5	71
88	Crosstalk between nitric oxide (NO) and abscisic acid (ABA) signalling molecules in higher plants. Environmental and Experimental Botany, 2019, 161, 41-49.	4.2	109
89	Calmodulin (CaM) antagonist affects peroxisomal functionality by disrupting both peroxisomal Ca2+ and protein import. Journal of Cell Science, 2018, 131, .	2.0	15
90	Peroxisomal plant metabolism â€“ an update on nitric oxide, Ca2+ and the NADPH recycling network. Journal of Cell Science, 2018, 131, .	2.0	41

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91	Nitric oxide buffering and conditional nitric oxide release in stress response. Journal of Experimental Botany, 2018, 69, 3425-3438.	4.8	107
92	Identification of Tyrosine and Nitrotyrosine with a Mixed-Mode Solid-Phase Extraction Cleanup Followed by Liquid Chromatographyâ€“Electrospray Time-of-Flight Mass Spectrometry in Plants. Methods in Molecular Biology, 2018, 1747, 161-169.	0.9	1
93	A Simple and Useful Method to Apply Exogenous NO Gas to Plant Systems: Bell Pepper Fruits as a Model. Methods in Molecular Biology, 2018, 1747, 3-11.	0.9	11
94	Nitro-Fatty Acid Detection in Plants by High-Pressure Liquid Chromatography Coupled to Triple Quadrupole Mass Spectrometry. Methods in Molecular Biology, 2018, 1747, 231-239.	0.9	8
95	Nitro-oxidative metabolism during fruit ripening. Journal of Experimental Botany, 2018, 69, 3449-3463.	4.8	110
96	Calcium in plant peroxisomes. What for?. Plant Signaling and Behavior, 2018, 13, e1449545.	2.4	2
97	Plant Superoxide Dismutases: Function Under Abiotic Stress Conditions. , 2018, , 1-26.		48
98	Mechanical wounding promotes local and long distance response in the halophyte Cakile maritima through the involvement of the ROS and RNS metabolism. Nitric Oxide - Biology and Chemistry, 2018, 74, 93-101.	2.7	36
99	The Proteome of Fruit Peroxisomes: Sweet Pepper (Capsicum annuum L.) as a Model. Sub-Cellular Biochemistry, 2018, 89, 323-341.	2.4	23
100	Endogenous hydrogen sulfide (H2S) is up-regulated during sweet pepper (Capsicum annuum L.) fruit ripening. In vitro analysis shows that NADP-dependent isocitrate dehydrogenase (ICDH) activity is inhibited by H2S and NO. Nitric Oxide - Biology and Chemistry, 2018, 81, 36-45.	2.7	92
101	A Role for RNS in the Communication of Plant Peroxisomes with Other Cell Organelles?. Sub-Cellular Biochemistry, 2018, 89, 473-493.	2.4	8
102	A Shoot Fe Signaling Pathway Requiring the OPT3 Transporter Controls GSNO Reductase and Ethylene in Arabidopsis thaliana Roots. Frontiers in Plant Science, 2018, 9, 1325.	3.6	39
103	Assessing Nitric Oxide (NO) in Higher Plants: An Outline. Nitrogen, 2018, 1, 3.	1.3	40
104	Nitric oxide on/off in fruit ripening. Plant Biology, 2018, 20, 805-807.	3.8	75
105	S-nitrosoglutathione reductase (GSNOR) activity is down-regulated during pepper (Capsicum annuum) Tj ETQq1 1 0.784314 rgBT /Over	2.7	64
106	Arsenic-induced stress activates sulfur metabolism in different organs of garlic (Allium sativum L.) plants accompanied by a general decline of the NADPH-generating systems in roots. Journal of Plant Physiology, 2017, 211, 27-35.	3.5	53
107	Nitro-fatty acids in plant signaling: New key mediators of nitric oxide metabolism. Redox Biology, 2017, 11, 554-561.	9.0	77
108	Alternative fluorimetric-based method to detect and compare total S-nitrosothiols in plants. Nitric Oxide - Biology and Chemistry, 2017, 68, 7-13.	2.7	9

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109	Characterization of the galactono-1,4-lactone dehydrogenase from pepper fruits and its modulation in the ascorbate biosynthesis. Role of nitric oxide. Redox Biology, 2017, 12, 171-181.	9.0	92
110	Immunological evidence for the presence of peroxiredoxin in pea leaf peroxisomes and response to oxidative stress conditions. Acta Physiologiae Plantarum, 2017, 39, 1.	2.1	11
111	Lead-induced stress, which triggers the production of nitric oxide (NO) and superoxide anion (O2Â·-) in Arabidopsis peroxisomes, affects catalase activity. Nitric Oxide - Biology and Chemistry, 2017, 68, 103-110.	2.7	93
112	Plant peroxisomes: A nitro-oxidative cocktail. Redox Biology, 2017, 11, 535-542.	9.0	150
113	Alleviation of Cr(VI)-induced oxidative stress in maize (Zea mays L.) seedlings by NO and H 2 S donors through differential organ-dependent regulation of ROS and NADPH-recycling metabolisms. Journal of Plant Physiology, 2017, 219, 71-80.	3.5	92
114	Glyphosate-induced oxidative stress in Arabidopsis thaliana affecting peroxisomal metabolism and triggers activity in the oxidative phase of the pentose phosphate pathway (OxPPP) involved in NADPH generation. Journal of Plant Physiology, 2017, 218, 196-205.	3.5	81
115	Nitric oxide synthase-like activity in higher plants. Nitric Oxide - Biology and Chemistry, 2017, 68, 5-6.	2.7	100
116	Nitric oxide signaling and its crosstalk with other plant growth regulators in plant responses to abiotic stress. Environmental Science and Pollution Research, 2017, 24, 2273-2285.	5.3	201
117	Potential Beneficial Effects of Exogenous Nitric Oxide (NO) Application in Plants under Heavy Metal-Induced Stress. International Journal of Plant and Environment, 2017, 3, 01-05.	0.4	4
118	Separation of Plant 6-Phosphogluconate Dehydrogenase (6PGDH) Isoforms by Non-denaturing Gel Electrophoresis. Bio-protocol, 2017, 7, e2399.	0.4	1
119	Detection of Protein S-nitrosothiols (SNOs) in Plant Samples on Diaminofluorescein (DAF) Gels. Bio-protocol, 2017, 7, e2559.	0.4	2
120	In SilicoAnalysis ofArabidopsis thalianaPeroxisomal 6-Phosphogluconate Dehydrogenase. Scientifica, 2016, 2016, 1-9.	1.7	13
121	Antioxidant Systems are Regulated by Nitric Oxide-Mediated Post-translational Modifications (NO-PTMs). Frontiers in Plant Science, 2016, 7, 152.	3.6	150
122	Protein Tyrosine Nitration during Development and Abiotic Stress Response in Plants. Frontiers in Plant Science, 2016, 7, 1699.	3.6	52
123	Quantification and Localization of S-Nitrosothiols (SNOs) in Higher Plants. Methods in Molecular Biology, 2016, 1424, 139-147.	0.9	4
124	Nitro-linolenic acid is a nitric oxide donor. Nitric Oxide - Biology and Chemistry, 2016, 57, 57-63.	2.7	51
125	Nitric Oxide Emission and Uptake from Higher Plants. Signaling and Communication in Plants, 2016, , 79-93.	0.7	5
126	Protein S-Nitrosylation and S-Glutathionylation as Regulators of Redox Homeostasis During Abiotic Stress Response. , 2016, , 365-386.		7

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127	Reactive Nitrogen Species (RNS) in Plants Under Physiological and Adverse Environmental Conditions: Current View. Progress in Botany Fortschritte Der Botanik, 2016, , 97-119.	0.3	8
128	In vivo and in vitro approaches demonstrate proline is not directly involved in the protection against superoxide, nitric oxide, nitrogen dioxide and peroxynitrite. Functional Plant Biology, 2016, 43, 870.	2.1	43
129	Peroxisomal NADP-isocitrate dehydrogenase is required for Arabidopsis stomatal movement. Protoplasma, 2016, 253, 403-415.	2.1	44
130	Comparative study of plant growth of two poplar tree species irrigated with treated wastewater, with particular reference to accumulation of heavy metals (Cd, Pb, As, and Ni). Environmental Monitoring and Assessment, 2016, 188, 99.	2.7	40
131	Functional Implications of S-Nitrosothiols under Nitrooxidative Stress Induced by Abiotic Conditions. Advances in Botanical Research, 2016, , 79-96.	1.1	5
132	Activation of NADPH-recycling systems in leaves and roots of Arabidopsis thaliana under arsenic-induced stress conditions is accelerated by knock-out of Nudix hydrolase 19 (AtNUDX19) gene. Journal of Plant Physiology, 2016, 192, 81-89.	3.5	38
133	Nitro-Fatty Acids in Plant Signaling: Nitro-Linolenic Acid Induces the Molecular Chaperone Network in Arabidopsis. Plant Physiology, 2016, 170, 686-701.	4.8	116
134	Nitric oxide release from nitro-fatty acids in Arabidopsis roots. Plant Signaling and Behavior, 2016, 11, e1154255.	2.4	22
135	Modulation of superoxide dismutase (SOD) isozymes by organ development and high long-term salinity in the halophyte Cakile maritima. Protoplasma, 2016, 253, 885-894.	2.1	58
136	Differential responses to salt-induced oxidative stress in three phylogenetically related plant species: Arabidopsis thaliana (glycophyte), Thellungiella salsuginea and Cakile maritima (halophytes). Involvement of ROS and NO in the control of K+/Na+ homeostasis. AIMS Biophysics, 2016, 3, 380-397.	0.6	12
137	Peroxisomes: Dynamic shape-shifters. Nature Plants, 2015, 1, 15039.	9.3	4
138	What is the role of hydrogen peroxide in plant peroxisomes?. Plant Biology, 2015, 17, 1099-1103.	3.8	52
139	Functions of Nitric Oxide (NO) in Roots during Development and under Adverse Stress Conditions. Plants, 2015, 4, 240-252.	3.5	62
140	Transcriptomic profiling of linolenic acid-responsive genes in ROS signaling from RNA-seq data in Arabidopsis. Frontiers in Plant Science, 2015, 6, 122.	3.6	51
141	Nitric oxide from a â€œgreenâ€• perspective. Nitric Oxide - Biology and Chemistry, 2015, 45, 15-19.	2.7	59
142	Zinc induces distinct changes in the metabolism of reactive oxygen and nitrogen species (ROS and RNS) in the roots of two<i>Brassica</i>species with different sensitivity to zinc stress. Annals of Botany, 2015, 116, 613-625.	2.9	105
143	Reactive sulfur species (RSS): possible new players in the oxidative metabolism of plant peroxisomes. Frontiers in Plant Science, 2015, 6, 116.	3.6	30
144	Ripening of pepper (<i>Capsicum annuum</i>) fruit is characterized by an enhancement of protein tyrosine nitration. Annals of Botany, 2015, 116, 637-647.	2.9	141

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145	Differential molecular response of monodehydroascorbate reductase and glutathione reductase by nitration and<i>S</i>-nitrosylation. Journal of Experimental Botany, 2015, 66, 5983-5996.	4.8	153
146	Differential response of NADP-dehydrogenases and carbon metabolism in leaves and roots of two durum wheat (Triticum durum Desf.) cultivars (Karim and Azizi) with different sensitivities to salt stress. Journal of Plant Physiology, 2015, 179, 56-63.	3.5	43
147	Spatial and temporal regulation of the metabolism of reactive oxygen and nitrogen species during the early development of pepper (<i>Capsicum annuum</i>) seedlings. Annals of Botany, 2015, 116, 679-693.	2.9	46
148	Modulation of the Ascorbateâ€"Glutathione Cycle Antioxidant Capacity by Posttranslational Modifications Mediated by Nitric Oxide in Abiotic Stress Situations. , 2015, , 305-320.		1
149	Production Sites of Reactive Oxygen Species (ROS) in Organelles from Plant Cells. , 2015, , 1-22.		33
150	Physiology of pepper fruit and the metabolism of antioxidants: chloroplasts, mitochondria and peroxisomes. Annals of Botany, 2015, 116, 627-636.	2.9	66
151	Nitration and S-Nitrosylation: Two Post-translational Modifications (PTMs) Mediated by Reactive Nitrogen Species (RNS) and Their Role in Signalling Processes of Plant Cells. Signaling and Communication in Plants, 2015, , 267-281.	0.7	17
152	NADPH-generating dehydrogenases: their role in the mechanism of protection against nitro-oxidative stress induced by adverse environmental conditions. Frontiers in Environmental Science, 2014, 2, .	3.3	71
153	Dual regulation of cytosolic ascorbate peroxidase (APX) by tyrosine nitration and<i>S</i>-nitrosylation. Journal of Experimental Botany, 2014, 65, 527-538.	4.8	294
154	Functional implications of peroxisomal nitric oxide (NO) in plants. Frontiers in Plant Science, 2014, 5, 97.	3.6	22
155	Addition of bottom ash from biomass in calcium silicate masonry units for use as construction material with thermal insulating properties. Construction and Building Materials, 2014, 52, 155-165.	7.2	42
156	Differential Transcriptomic Analysis by RNA-Seq of GSNO-Responsive Genes Between Arabidopsis Roots and Leaves. Plant and Cell Physiology, 2014, 55, 1080-1095.	3.1	124
157	Peroxynitrite (ONOOâˆ') is endogenously produced in arabidopsis peroxisomes and is overproduced under cadmium stress. Annals of Botany, 2014, 113, 87-96.	2.9	130
158	Redox and nitric oxide homeostasis are affected in tomato (Solanum lycopersicum) roots under salinity-induced oxidative stress. Journal of Plant Physiology, 2014, 171, 1028-1035.	3.5	101
159	Peroxisomal plant nitric oxide synthase (NOS) protein is imported by peroxisomal targeting signal type 2 (PTS2) in a process that depends on the cytosolic receptor PEX7 and calmodulin. FEBS Letters, 2014, 588, 2049-2054.	2.8	45
160	Exogenous nitric oxide (NO) ameliorates salinity-induced oxidative stress in tomato (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	3.4	40
161	Function of Peroxisomes as a Cellular Source of Nitric Oxide and Other Reactive Nitrogen Species. , 2014, , 33-55.		5
162	Peroxisomes as Cell Generators of Reactive Nitrogen Species (RNS) Signal Molecules. Sub-Cellular Biochemistry, 2013, 69, 283-298.	2.4	11

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