Francisco Corpas

List of Publications by Year
in descending order

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274 papers	22,360 citations	5248 83 h-index	11030 137 g-index
283 all docs	283 docs citations	283 times ranked	11243 citing authors

#	Article	IF	Citations
1	Cadmium-induced subcellular accumulation of O2.- and H2O2 in pea leaves. Plant, Cell and Environment, 2004, 27, 1122-1134.	2.8	687
2	Salt-induced oxidative stress in chloroplasts of pea plants. Plant Science, 1995, 105, 151-167.	1.7	579
3	Reactive Oxygen Species and Reactive Nitrogen Species in Peroxisomes. Production, Scavenging, and Role in Cell Signaling. Plant Physiology, 2006, 141, 330-335.	2.3	530
4	Cadmium effect on oxidative metabolism of pea (Pisum sativum L.) roots. Imaging of reactive oxygen species and nitric oxide accumulation in vivo. Plant, Cell and Environment, 2006, 29, 1532-1544.	2.8	500
5	Peroxisomes as a source of reactive oxygen species and nitric oxide signal molecules in plant cells. Trends in Plant Science, 2001, 6, 145-150.	4.3	462
6	Plant proteases, protein degradation, and oxidative stress: role of peroxisomes. Plant Physiology and Biochemistry, 2002, 40, 521-530.	2.8	371
7	Cellular and Subcellular Localization of Endogenous Nitric Oxide in Young and Senescent Pea Plants. Plant Physiology, 2004, 136, 2722-2733.	2.3	360
8	The Activated Oxygen Role of Peroxisomes in Senescence1. Plant Physiology, 1998, 116, 1195-1200.	2.3	354
9	Salt-induced oxidative stress mediated by activated oxygen species in pea leaf mitochondria. Physiologia Plantarum, 1993, 89, 103-110.	2.6	342
10	Localization of Nitric-oxide Synthase in Plant Peroxisomes. Journal of Biological Chemistry, 1999, 274, 36729-36733.	1.6	324
11	Nitric oxide and nitric oxide synthase activity in plants. Phytochemistry, 2004, 65, 783-792.	1.4	317
12	Assessment of Subcellular ROS and NO Metabolism in Higher Plants: Multifunctional Signaling Molecules. Antioxidants, 2019, 8, 641.	2.2	310
13	Nitrosative stress in plants. FEBS Letters, 2007, 581, 453-461.	1.3	309
14	Metabolism of reactive oxygen species and reactive nitrogen species in pepper (Capsicum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	2.8	304
15	Dual regulation of cytosolic ascorbate peroxidase (APX) by tyrosine nitration andS-nitrosylation. Journal of Experimental Botany, 2014, 65, 527-538.	2.4	294
16	Metabolism of Reactive Nitrogen Species in Pea Plants Under Abiotic Stress Conditions. Plant and Cell Physiology, 2008, 49, 1711-1722.	1.5	287
17	Constitutive arginine-dependent nitric oxide synthase activity in different organs of pea seedlings during plant development. Planta, 2006, 224, 246-254.	1.6	277
18	Nitric oxide imbalance provokes a nitrosative response in plants under abiotic stress. Plant Science, 2011, 181, 604-611.	1.7	273

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19	Differential expression and regulation of antioxidative enzymes by cadmium in pea plants. Journal of Plant Physiology, 2007, 164, 1346-1357.	1.6	252
20	Metabolism of oxygen radicals in peroxisomes and cellular implications. Free Radical Biology and Medicine, 1992, 13, 557-580.	1.3	250
21	Localization of S-nitrosoglutathione and expression of S-nitrosoglutathione reductase in pea plants under cadmium stress. Journal of Experimental Botany, 2006, 57, 1785-1793.	2.4	233
22	The dehydrogenase-mediated recycling of NADPH is a key antioxidant system against salt-induced oxidative stress in olive plants. Plant, Cell and Environment, 2006, 29, 1449-1459.	2.8	228
23	Evidence supporting the existence of <scp>l</scp>â€arginineâ€dependent nitric oxide synthase activity in plants. New Phytologist, 2009, 184, 9-14.	3.5	228
24	Lead tolerance in plants: strategies for phytoremediation. Environmental Science and Pollution Research, 2013, 20, 2150-2161.	2.7	215
25	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. Journal of Hazardous Materials, 2020, 398, 122882.	6.5	213
26	A forty year journey: The generation and roles of NO in plants. Nitric Oxide - Biology and Chemistry, 2019, 93, 53-70.	1.2	209
27	Nitric oxide and hydrogen sulfide in plants: which comes first?. Journal of Experimental Botany, 2019, 70, 4391-4404.	2.4	206
28	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.	2.7	201
29	Arsenic triggers the nitric oxide (NO) and S-nitrosoglutathione (GSNO) metabolism in Arabidopsis. Environmental Pollution, 2012, 166, 136-143.	3.7	186
30	Protein targets of tyrosine nitration in sunflower (Helianthus annuus L.) hypocotyls. Journal of Experimental Botany, 2009, 60, 4221-4234.	2.4	180
31	Protein tyrosine nitration in pea roots during development and senescence. Journal of Experimental Botany, 2013, 64, 1121-1134.	2.4	171
32	Involvement of Reactive Nitrogen and Oxygen Species (RNS and ROS) in Sunflowerâ€“Mildew Interaction. Plant and Cell Physiology, 2009, 50, 265-279.	1.5	168
33	Peroxisomes Are Required for in Vivo Nitric Oxide Accumulation in the Cytosol following Salinity Stress of Arabidopsis Plants. Plant Physiology, 2009, 151, 2083-2094.	2.3	163
34	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.	6.5	160
35	A dehydrogenase-mediated recycling system of NADPH in plant peroxisomes. Biochemical Journal, 1998, 330, 777-784.	1.7	157
36	Antioxidative enzymes in cultivars of pepper plants with different sensitivity to cadmium. Plant Physiology and Biochemistry, 2002, 40, 813-820.	2.8	157

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37	Glutathione reductase from pea leaves: response to abiotic stress and characterization of the peroxisomal isozyme. New Phytologist, 2006, 170, 43-52.	3.5	157
38	Mechanical wounding induces a nitrosative stress by down-regulation of GSNO reductase and an increase in S-nitrosothiols in sunflower (Helianthus annuus) seedlings. Journal of Experimental Botany, 2011, 62, 1803-1813.	2.4	157
39	Nitroâ€oxidative stress vs oxidative or nitrosative stress in higher plants. New Phytologist, 2013, 199, 633-635.	3.5	154
40	Current overview of S-nitrosoglutathione (GSNO) in higher plants. Frontiers in Plant Science, 2013, 4, 126.	1.7	154
41	Differential molecular response of monodehydroascorbate reductase and glutathione reductase by nitration andS-nitrosylation. Journal of Experimental Botany, 2015, 66, 5983-5996.	2.4	153
42	Antioxidant Systems are Regulated by Nitric Oxide-Mediated Post-translational Modifications (NO-PTMs). Frontiers in Plant Science, 2016, 7, 152.	1.7	150
43	Plant peroxisomes: A nitro-oxidative cocktail. Redox Biology, 2017, 11, 535-542.	3.9	150
44	H2S signaling in plants and applications in agriculture. Journal of Advanced Research, 2020, 24, 131-137.	4.4	146
45	High temperature triggers the metabolism of Sâ€nitrosothiols in sunflower mediating a process of nitrosative stress which provokes the inhibition of ferredoxinâ€“NADP reductase by tyrosine nitration. Plant, Cell and Environment, 2011, 34, 1803-1818.	2.8	145
46	Function of S-nitrosoglutathione reductase (GSNOR) in plant development and under biotic/abiotic stress. Plant Signaling and Behavior, 2011, 6, 789-793.	1.2	144
47	Proteomics as an approach to the understanding of the molecular physiology of fruit development and ripening. Journal of Proteomics, 2011, 74, 1230-1243.	1.2	143
48	Ripening of pepper (Capsicum annuum) fruit is characterized by an enhancement of protein tyrosine nitration. Annals of Botany, 2015, 116, 637-647.	1.4	141
49	Revisiting the role of ROS and RNS in plants under changing environment. Environmental and Experimental Botany, 2019, 161, 1-3.	2.0	136
50	Peroxisomal Monodehydroascorbate Reductase. Genomic Clone Characterization and Functional Analysis under Environmental Stress Conditions. Plant Physiology, 2005, 138, 2111-2123.	2.3	134
51	Peroxynitrite (ONOOâ") is endogenously produced in arabidopsis peroxisomes and is overproduced under cadmium stress. Annals of Botany, 2014, 113, 87-96.	1.4	130
52	Characterization of membrane polypeptides from pea leaf peroxisomes involved in superoxide radical generation. Biochemical Journal, 1999, 337, 531-536.	1.7	129
53	Peroxisomal NADP-Dependent Isocitrate Dehydrogenase. Characterization and Activity Regulation during Natural Senescence. Plant Physiology, 1999, 121, 921-928.	2.3	128
54	Cadmium Toxicity and Oxidative Metabolism of Pea Leaf Peroxisomes. Free Radical Research, 1999, 31, 25-31.	1.5	127

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55	Plant catalases as NO and H2S targets. Redox Biology, 2020, 34, 101525.	3.9	125
56	Differential Transcriptomic Analysis by RNA-Seq of GSNO-Responsive Genes Between Arabidopsis Roots and Leaves. Plant and Cell Physiology, 2014, 55, 1080-1095.	1.5	124
57	Water stress induces a differential and spatially distributed nitro-oxidative stress response in roots and leaves of Lotus japonicus. Plant Science, 2013, 201-202, 137-146.	1.7	118
58	Nitro-Fatty Acids in Plant Signaling: Nitro-Linolenic Acid Induces the Molecular Chaperone Network in Arabidopsis. Plant Physiology, 2016, 170, 686-701.	2.3	116
59	Cadmium induces senescence symptoms in leaf peroxisomes of pea plants. Plant, Cell and Environment, 2001, 24, 1065-1073.	2.8	115
60	Reactive oxygen species-mediated enzymatic systems involved in the oxidative action of 2,4-dichlorophenoxyacetic acid*. Plant, Cell and Environment, 2004, 27, 1135-1148.	2.8	111
61	Peroxisomal xanthine oxidoreductase: Characterization of the enzyme from pea (Pisum sativum L.) leaves. Journal of Plant Physiology, 2008, 165, 1319-1330.	1.6	111
62	Nitro-oxidative metabolism during fruit ripening. Journal of Experimental Botany, 2018, 69, 3449-3463.	2.4	110
63	Crosstalk between nitric oxide (NO) and abscisic acid (ABA) signalling molecules in higher plants. Environmental and Experimental Botany, 2019, 161, 41-49.	2.0	109
64	Protein tyrosine nitration in higher plants grown under natural and stress conditions. Frontiers in Plant Science, 2013, 4, 29.	1.7	108
65	Hydrogen sulfide: A novel component in Arabidopsis peroxisomes which triggers catalase inhibition. Journal of Integrative Plant Biology, 2019, 61, 871-883.	4.1	108
66	Detection and Quantification of S-Nitrosoglutathione (GSNO) in Pepper (Capsicum annuum L.) Plant Organs by LC-ES/MS. Plant and Cell Physiology, 2011, 52, 2006-2015.	1.5	107
67	Nitric oxide buffering and conditional nitric oxide release in stress response. Journal of Experimental Botany, 2018, 69, 3425-3438.	2.4	107
68	Zinc induces distinct changes in the metabolism of reactive oxygen and nitrogen species (ROS and RNS) in the roots of twoBrassicaspecies with different sensitivity to zinc stress. Annals of Botany, 2015, 116, 613-625.	1.4	105
69	Need of biomarkers of nitrosative stress in plants. Trends in Plant Science, 2007, 12, 436-438.	4.3	104
70	Hydrogen Sulfide: A New Warrior against Abiotic Stress. Trends in Plant Science, 2019, 24, 983-988.	4.3	104
71	Arsenate and arsenite exposure modulate antioxidants and amino acids in contrasting arsenic accumulating rice (Oryza sativa L.) genotypes. Journal of Hazardous Materials, 2013, 262, 1123-1131.	6.5	102
72	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.	1.6	101

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73	Nitric oxide synthase-like activity in higher plants. Nitric Oxide - Biology and Chemistry, 2017, 68, 5-6.	1.2	100
74	The Expression of Different Superoxide Dismutase Forms is Cell-type Dependent in Olive (Olea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	1.5	97
75	Sludge valorization from wastewater treatment plant to its application on the ceramic industry. Journal of Environmental Management, 2012, 95, S343-S348.	3.8	93
76	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.	1.2	93
77	Metabolism of Activated Oxygen in Peroxisomes from two Pisum sativum L. Cultivars with Different Sensitivity to Sodium Chloride. Journal of Plant Physiology, 1993, 141, 160-165.	1.6	92
78	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.	3.9	92
79	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.	1.6	92
80	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.	1.2	92
81	Regulating the regulator: nitric oxide control of postâ€translational modifications. New Phytologist, 2020, 227, 1319-1325.	3.5	91
82	Protein tyrosine nitration. Plant Signaling and Behavior, 2009, 4, 920-923.	1.2	90
83	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. Trends in Plant Science, 2021, 26, 1270-1285.	4.3	90
84	Roles for redox regulation in leaf senescence of pea plants grown on different sources of nitrogen nutrition. Journal of Experimental Botany, 2006, 57, 1735-1745.	2.4	88
85	Proteome of plant peroxisomes: new perspectives on the role of these organelles in cell biology. Proteomics, 2009, 9, 2301-2312.	1.3	87
86	Antioxidative enzymes from chloroplasts, mitochondria, and peroxisomes during leaf senescence of nodulated pea plants. Journal of Experimental Botany, 2006, 57, 1747-1758.	2.4	86
87	Peroxisomes as a source of superoxide and hydrogen peroxide in stressed plants. Biochemical Society Transactions, 1996, 24, 434-438.	1.6	84
88	Nitric oxide-dependent regulation of sweet pepper fruit ripening. Journal of Experimental Botany, 2019, 70, 4557-4570.	2.4	84
89	Nitric oxide in the physiology and quality of fleshy fruits. Journal of Experimental Botany, 2019, 70, 4405-4417.	2.4	83
90	Assessment of olive mill solid residue (pomace) as an additive in lightweight brick production. Construction and Building Materials, 2012, 36, 495-500.	3.2	82

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91	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.	1.6	81
92	Tyrosine nitration provokes inhibition of sunflower carbonic anhydrase (Î²-CA) activity under high temperature stress. Nitric Oxide - Biology and Chemistry, 2013, 29, 30-33.	1.2	80
93	Antioxidant Systems from Pepper (Capsicum annuum L.): Involvement in the Response to Temperature Changes in Ripe Fruits. International Journal of Molecular Sciences, 2013, 14, 9556-9580.	1.8	78
94	Nitro-fatty acids in plant signaling: New key mediators of nitric oxide metabolism. Redox Biology, 2017, 11, 554-561.	3.9	77
95	Nitric oxide on/off in fruit ripening. Plant Biology, 2018, 20, 805-807.	1.8	75
96	Plant Peroxisomes: A Factory of Reactive Species. Frontiers in Plant Science, 2020, 11, 853.	1.7	73
97	Purification of Catalase from Pea Leaf Peroxisomes: Identification of Five Different Isoforms. Free Radical Research, 1999, 31, 235-241.	1.5	72
98	Arsenate disrupts ion balance, sulfur and nitric oxide metabolisms in roots and leaves of pea (Pisum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.0	72
99	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, .	1.5	71
100	Plant peroxisomes at the crossroad of NO and H₂O₂ metabolism. Journal of Integrative Plant Biology, 2019, 61, 803-816.	4.1	71
101	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.	2.8	68
102	Main nitric oxide (NO) hallmarks to relieve arsenic stress in higher plants. Journal of Hazardous Materials, 2021, 406, 124289.	6.5	68
103	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.	2.2	67
104	Physiology of pepper fruit and the metabolism of antioxidants: chloroplasts, mitochondria and peroxisomes. Annals of Botany, 2015, 116, 627-636.	1.4	66
105	S-nitrosoglutathione reductase (GSNOR) activity is down-regulated during pepper (Capsicum annuum) Tj ETQq1 1 0.784314 rgBT /Ov	1.2	64
106	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.	2.8	64
107	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.	2.8	64
108	Cytosolic NADP-isocitrate dehydrogenase of pea plants: Genomic clone characterization and functional analysis under abiotic stress conditions. Free Radical Research, 2007, 41, 191-199.	1.5	62

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109	NADPâ€dehydrogenases from pepper fruits: effect of maturation. Physiologia Plantarum, 2009, 135, 130-139.	2.6	62
110	Inhibition of peroxisomal hydroxypyruvate reductase (HPR1) by tyrosine nitration. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4981-4989.	1.1	62
111	Functions of Nitric Oxide (NO) in Roots during Development and under Adverse Stress Conditions. Plants, 2015, 4, 240-252.	1.6	62
112	Arsenite Tolerance is Related to Proportional Thiolic Metabolite Synthesis in Rice (Oryza sativa L.). Archives of Environmental Contamination and Toxicology, 2013, 64, 235-242.	2.1	61
113	NADPH Oxidase (Rboh) Activity is Up Regulated during Sweet Pepper (Capsicum annuum L.) Fruit Ripening. Antioxidants, 2019, 8, 9.	2.2	61
114	A role for leaf peroxisomes in the catabolism of purines. Journal of Plant Physiology, 1997, 151, 246-250.	1.6	60
115	Functional analysis of superoxide dismutases (SODs) in sunflower under biotic and abiotic stress conditions. Identification of two new genes of mitochondrial Mn-SOD. Journal of Plant Physiology, 2011, 168, 1303-1308.	1.6	59
116	Nitric oxide from a â€œgreenâ€•perspective. Nitric Oxide - Biology and Chemistry, 2015, 45, 15-19.	1.2	59
117	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.	6.5	59
118	Modulation of superoxide dismutase (SOD) isozymes by organ development and high long-term salinity in the halophyte Cakile maritima. Protoplasma, 2016, 253, 885-894.	1.0	58
119	Inhibition of NADPâ€malic enzyme activity by H₂S and NO in sweet pepper (<i>Capsicum) Tj ETQq1 1 0.784314 rgBT /O	2.6	57
120	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.	2.4	57
121	Recommendations on terminology and experimental best practice associated with plant nitric oxide research. New Phytologist, 2020, 225, 1828-1834.	3.5	56
122	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. Journal of Hazardous Materials, 2021, 408, 124820.	6.5	55
123	Incorporation of coffee grounds into clay brick production. Advances in Applied Ceramics, 2011, 110, 225-232.	0.6	53
124	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.	1.6	53
125	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.	2.4	53
126	What is the role of hydrogen peroxide in plant peroxisomes?. Plant Biology, 2015, 17, 1099-1103.	1.8	52

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127	Protein Tyrosine Nitration during Development and Abiotic Stress Response in Plants. Frontiers in Plant Science, 2016, 7, 1699.	1.7	52
128	Identification and immunochemical characterization of a family of peroxisome membrane proteins (PMPs) in oilseed glyoxysomes. European Journal of Cell Biology, 1994, 65, 280-90.	1.6	52
129	NADP-Dependent Isocitrate Dehydrogenase fromArabidopsisRoots Contributes in the Mechanism of Defence against the Nitro-Oxidative Stress Induced by Salinity. Scientific World Journal, The, 2012, 2012, 1-9.	0.8	51
130	Transcriptomic profiling of linolenic acid-responsive genes in ROS signaling from RNA-seq data in Arabidopsis. Frontiers in Plant Science, 2015, 6, 122.	1.7	51
131	Nitro-linolenic acid is a nitric oxide donor. Nitric Oxide - Biology and Chemistry, 2016, 57, 57-63.	1.2	51
132	Sweet Pepper (Capsicum annuum L.) Fruits Contain an Atypical Peroxisomal Catalase That Is Modulated by Reactive Oxygen and Nitrogen Species. Antioxidants, 2019, 8, 374.	2.2	51
133	Nitric oxide (NO) and salicylic acid (SA): A framework for their relationship in plant development under abiotic stress. Plant Biology, 2021, 23, 39-49.	1.8	51
134	Functions of Melatonin during Postharvest of Horticultural Crops. Plant and Cell Physiology, 2023, 63, 1764-1786.	1.5	51
135	Copperâ€“zinc superoxide dismutase is a constituent enzyme of the matrix of peroxisomes in the cotyledons of oilseed plants. New Phytologist, 1998, 138, 307-314.	3.5	49
136	Characterization of membrane polypeptides from pea leaf peroxisomes involved in superoxide radical generation. Biochemical Journal, 1999, 337, 531.	1.7	49
137	Enzymatic sources of nitric oxide in plant cells â€“ beyond one proteinâ€“one function. New Phytologist, 2004, 162, 246-248.	3.5	49
138	Plant Peroxisomes, Reactive Oxygen Metabolism and Nitric Oxide. IUBMB Life, 2003, 55, 71-81.	1.5	49
139	Plant Superoxide Dismutases: Function Under Abiotic Stress Conditions. , 2018, , 1-26.		48
140	Auxin metabolic network regulates the plant response to metalloids stress. Journal of Hazardous Materials, 2021, 405, 124250.	6.5	47
141	Growth, Yield, and Fruit Quality of Pepper Plants Amended with Two Sanitized Sewage Sludges. Journal of Agricultural and Food Chemistry, 2010, 58, 6951-6959.	2.4	46
142	Spatial and temporal regulation of the metabolism of reactive oxygen and nitrogen species during the early development of pepper (Capsicum annuum) seedlings. Annals of Botany, 2015, 116, 679-693.	1.4	46
143	Hydrogen sulfide: an emerging component against abiotic stress in plants. Plant Biology, 2022, 24, 540-558.	1.8	46
144	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.	1.3	45

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145	Immunolocalization of S-nitrosoglutathione, S-nitrosoglutathione reductase and tyrosine nitration in pea leaf organelles. Acta Physiologiae Plantarum, 2013, 35, 2635-2640.	1.0	44
146	Peroxisomal NADP-isocitrate dehydrogenase is required for Arabidopsis stomatal movement. Protoplasma, 2016, 253, 403-415.	1.0	44
147	Peroxisomal manganese superoxide dismutase: Purification and properties of the isozyme from pea leaves. Physiologia Plantarum, 1998, 104, 720-726.	2.6	43
148	Post-translational modifications mediated by reactive nitrogen species. Plant Signaling and Behavior, 2008, 3, 301-303.	1.2	43
149	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.	1.6	43
150	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.	1.1	43
151	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.	3.2	42
152	Nitric oxide and hydrogen sulfide modulate the NADPH-generating enzymatic system in higher plants. Journal of Experimental Botany, 2021, 72, 830-847.	2.4	42
153	Glutathione reductase from pea leaves: response to abiotic stress and characterization of the peroxisomal isozyme. New Phytologist, 2006, 170, 43-52.	3.5	41
154	Peroxisomal plant metabolism â€“ an update on nitric oxide, Ca2+ and the NADPH recycling network. Journal of Cell Science, 2018, 131, .	1.2	41
155	Appraisal of H2S metabolism in Arabidopsis thaliana: In silico analysis at the subcellular level. Plant Physiology and Biochemistry, 2020, 155, 579-588.	2.8	41
156	Exogenous nitric oxide (NO) ameliorates salinity-induced oxidative stress in tomato (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	1.7	40
157	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.	1.3	40
158	Assessing Nitric Oxide (NO) in Higher Plants: An Outline. Nitrogen, 2018, 1, 3.	0.6	40
159	Impact of Nitric Oxide (NO) on the ROS Metabolism of Peroxisomes. Plants, 2019, 8, 37.	1.6	40
160	Recovering wastes from the paper industry: Development of ceramic materials. Fuel Processing Technology, 2012, 103, 117-124.	3.7	39
161	Vinyl sulfone silica: application of an open preactivated support to the study of transnitrosylation of plant proteins by S-nitrosoglutathione. BMC Plant Biology, 2013, 13, 61.	1.6	39
162	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.	1.7	39

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163	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.	1.6	38
164	Hypothesis: Nitro-fatty acids play a role in plant metabolism. Plant Science, 2013, 199-200, 1-6.	1.7	37
165	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.	1.7	37
166	Influence of metallic, metallic oxide, and organic nanoparticles on plant physiology. Chemosphere, 2022, 290, 133329.	4.2	37
167	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.	1.2	36
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