

Francisco Corpas

List of Publications by Year in descending order

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Version: 2024-02-01

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	Cadmium-induced subcellular accumulation of O ₂ ⁻ and H ₂ O ₂ in pea leaves. <i>Plant, Cell and Environment</i> , 2004, 27, 1122-1134.	5.7	687
2	Salt-induced oxidative stress in chloroplasts of pea plants. <i>Plant Science</i> , 1995, 105, 151-167.	3.6	579
3	Reactive Oxygen Species and Reactive Nitrogen Species in Peroxisomes. Production, Scavenging, and Role in Cell Signaling. <i>Plant Physiology</i> , 2006, 141, 330-335.	4.8	530
4	Cadmium effect on oxidative metabolism of pea (<i>Pisum sativum</i> L.) roots. Imaging of reactive oxygen species and nitric oxide accumulation in vivo. <i>Plant, Cell and Environment</i> , 2006, 29, 1532-1544.	5.7	500
5	Peroxisomes as a source of reactive oxygen species and nitric oxide signal molecules in plant cells. <i>Trends in Plant Science</i> , 2001, 6, 145-150.	8.8	462
6	Plant proteases, protein degradation, and oxidative stress: role of peroxisomes. <i>Plant Physiology and Biochemistry</i> , 2002, 40, 521-530.	5.8	371
7	Cellular and Subcellular Localization of Endogenous Nitric Oxide in Young and Senescent Pea Plants. <i>Plant Physiology</i> , 2004, 136, 2722-2733.	4.8	360
8	The Activated Oxygen Role of Peroxisomes in Senescence ¹ . <i>Plant Physiology</i> , 1998, 116, 1195-1200.	4.8	354
9	Salt-induced oxidative stress mediated by activated oxygen species in pea leaf mitochondria. <i>Physiologia Plantarum</i> , 1993, 89, 103-110.	5.2	342
10	Localization of Nitric-oxide Synthase in Plant Peroxisomes. <i>Journal of Biological Chemistry</i> , 1999, 274, 36729-36733.	3.4	324
11	Nitric oxide and nitric oxide synthase activity in plants. <i>Phytochemistry</i> , 2004, 65, 783-792.	2.9	317
12	Assessment of Subcellular ROS and NO Metabolism in Higher Plants: Multifunctional Signaling Molecules. <i>Antioxidants</i> , 2019, 8, 641.	5.1	310
13	Nitrosative stress in plants. <i>FEBS Letters</i> , 2007, 581, 453-461.	2.8	309
14	Metabolism of reactive oxygen species and reactive nitrogen species in pepper (<i>Capsicum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	3.7	304
15	Dual regulation of cytosolic ascorbate peroxidase (APX) by tyrosine nitration and S-nitrosylation. <i>Journal of Experimental Botany</i> , 2014, 65, 527-538.	4.8	294
16	Metabolism of Reactive Nitrogen Species in Pea Plants Under Abiotic Stress Conditions. <i>Plant and Cell Physiology</i> , 2008, 49, 1711-1722.	3.1	287
17	Constitutive arginine-dependent nitric oxide synthase activity in different organs of pea seedlings during plant development. <i>Planta</i> , 2006, 224, 246-254.	3.2	277
18	Nitric oxide imbalance provokes a nitrosative response in plants under abiotic stress. <i>Plant Science</i> , 2011, 181, 604-611.	3.6	273

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19	Differential expression and regulation of antioxidative enzymes by cadmium in pea plants. <i>Journal of Plant Physiology</i> , 2007, 164, 1346-1357.	3.5	252
20	Metabolism of oxygen radicals in peroxisomes and cellular implications. <i>Free Radical Biology and Medicine</i> , 1992, 13, 557-580.	2.9	250
21	Localization of S-nitrosoglutathione and expression of S-nitrosoglutathione reductase in pea plants under cadmium stress. <i>Journal of Experimental Botany</i> , 2006, 57, 1785-1793.	4.8	233
22	The dehydrogenase-mediated recycling of NADPH is a key antioxidant system against salt-induced oxidative stress in olive plants. <i>Plant, Cell and Environment</i> , 2006, 29, 1449-1459.	5.7	228
23	Evidence supporting the existence of L-arginine-dependent nitric oxide synthase activity in plants. <i>New Phytologist</i> , 2009, 184, 9-14.	7.3	228
24	Lead tolerance in plants: strategies for phytoremediation. <i>Environmental Science and Pollution Research</i> , 2013, 20, 2150-2161.	5.3	215
25	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. <i>Journal of Hazardous Materials</i> , 2020, 398, 122882.	12.4	213
26	A forty year journey: The generation and roles of NO in plants. <i>Nitric Oxide - Biology and Chemistry</i> , 2019, 93, 53-70.	2.7	209
27	Nitric oxide and hydrogen sulfide in plants: which comes first?. <i>Journal of Experimental Botany</i> , 2019, 70, 4391-4404.	4.8	206
28	Nitric oxide signaling and its crosstalk with other plant growth regulators in plant responses to abiotic stress. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2273-2285.	5.3	201
29	Arsenic triggers the nitric oxide (NO) and S-nitrosoglutathione (GSNO) metabolism in Arabidopsis. <i>Environmental Pollution</i> , 2012, 166, 136-143.	7.5	186
30	Protein targets of tyrosine nitration in sunflower (<i>Helianthus annuus</i> L.) hypocotyls. <i>Journal of Experimental Botany</i> , 2009, 60, 4221-4234.	4.8	180
31	Protein tyrosine nitration in pea roots during development and senescence. <i>Journal of Experimental Botany</i> , 2013, 64, 1121-1134.	4.8	171
32	Involvement of Reactive Nitrogen and Oxygen Species (RNS and ROS) in Sunflower-Mildew Interaction. <i>Plant and Cell Physiology</i> , 2009, 50, 265-279.	3.1	168
33	Peroxisomes Are Required for in Vivo Nitric Oxide Accumulation in the Cytosol following Salinity Stress of Arabidopsis Plants. <i>Plant Physiology</i> , 2009, 151, 2083-2094.	4.8	163
34	Salicylic acid-induced nitric oxide enhances arsenic toxicity tolerance in maize plants by upregulating the ascorbate-glutathione cycle and glyoxalase system. <i>Journal of Hazardous Materials</i> , 2020, 399, 123020.	12.4	160
35	A dehydrogenase-mediated recycling system of NADPH in plant peroxisomes. <i>Biochemical Journal</i> , 1998, 330, 777-784.	3.7	157
36	Antioxidative enzymes in cultivars of pepper plants with different sensitivity to cadmium. <i>Plant Physiology and Biochemistry</i> , 2002, 40, 813-820.	5.8	157

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37	Glutathione reductase from pea leaves: response to abiotic stress and characterization of the peroxisomal isozyme. <i>New Phytologist</i> , 2006, 170, 43-52.	7.3	157
38	Mechanical wounding induces a nitrosative stress by down-regulation of GSNO reductase and an increase in S-nitrosothiols in sunflower (<i>Helianthus annuus</i>) seedlings. <i>Journal of Experimental Botany</i> , 2011, 62, 1803-1813.	4.8	157
39	Nitro-oxidative stress vs oxidative or nitrosative stress in higher plants. <i>New Phytologist</i> , 2013, 199, 633-635.	7.3	154
40	Current overview of S-nitrosoglutathione (GSNO) in higher plants. <i>Frontiers in Plant Science</i> , 2013, 4, 126.	3.6	154
41	Differential molecular response of monodehydroascorbate reductase and glutathione reductase by nitration and S-nitrosylation. <i>Journal of Experimental Botany</i> , 2015, 66, 5983-5996.	4.8	153
42	Antioxidant Systems are Regulated by Nitric Oxide-Mediated Post-translational Modifications (NO-PTMs). <i>Frontiers in Plant Science</i> , 2016, 7, 152.	3.6	150
43	Plant peroxisomes: A nitro-oxidative cocktail. <i>Redox Biology</i> , 2017, 11, 535-542.	9.0	150
44	H2S signaling in plants and applications in agriculture. <i>Journal of Advanced Research</i> , 2020, 24, 131-137.	9.5	146
45	High temperature triggers the metabolism of S-nitrosothiols in sunflower mediating a process of nitrosative stress which provokes the inhibition of ferredoxin-NADP reductase by tyrosine nitration. <i>Plant, Cell and Environment</i> , 2011, 34, 1803-1818.	5.7	145
46	Function of S-nitrosoglutathione reductase (GSNOR) in plant development and under biotic/abiotic stress. <i>Plant Signaling and Behavior</i> , 2011, 6, 789-793.	2.4	144
47	Proteomics as an approach to the understanding of the molecular physiology of fruit development and ripening. <i>Journal of Proteomics</i> , 2011, 74, 1230-1243.	2.4	143
48	Ripening of pepper (<i>Capsicum annuum</i>) fruit is characterized by an enhancement of protein tyrosine nitration. <i>Annals of Botany</i> , 2015, 116, 637-647.	2.9	141
49	Revisiting the role of ROS and RNS in plants under changing environment. <i>Environmental and Experimental Botany</i> , 2019, 161, 1-3.	4.2	136
50	Peroxisomal Monodehydroascorbate Reductase. Genomic Clone Characterization and Functional Analysis under Environmental Stress Conditions. <i>Plant Physiology</i> , 2005, 138, 2111-2123.	4.8	134
51	Peroxynitrite (ONOO ⁻) is endogenously produced in arabidopsis peroxisomes and is overproduced under cadmium stress. <i>Annals of Botany</i> , 2014, 113, 87-96.	2.9	130
52	Characterization of membrane polypeptides from pea leaf peroxisomes involved in superoxide radical generation. <i>Biochemical Journal</i> , 1999, 337, 531-536.	3.7	129
53	Peroxisomal NADP-Dependent Isocitrate Dehydrogenase. Characterization and Activity Regulation during Natural Senescence. <i>Plant Physiology</i> , 1999, 121, 921-928.	4.8	128
54	Cadmium Toxicity and Oxidative Metabolism of Pea Leaf Peroxisomes. <i>Free Radical Research</i> , 1999, 31, 25-31.	3.3	127

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55	Plant catalases as NO and H ₂ S targets. <i>Redox Biology</i> , 2020, 34, 101525.	9.0	125
56	Differential Transcriptomic Analysis by RNA-Seq of GSNO-Responsive Genes Between Arabidopsis Roots and Leaves. <i>Plant and Cell Physiology</i> , 2014, 55, 1080-1095.	3.1	124
57	Water stress induces a differential and spatially distributed nitro-oxidative stress response in roots and leaves of <i>Lotus japonicus</i> . <i>Plant Science</i> , 2013, 201-202, 137-146.	3.6	118
58	Nitro-Fatty Acids in Plant Signaling: Nitro-Linolenic Acid Induces the Molecular Chaperone Network in Arabidopsis. <i>Plant Physiology</i> , 2016, 170, 686-701.	4.8	116
59	Cadmium induces senescence symptoms in leaf peroxisomes of pea plants. <i>Plant, Cell and Environment</i> , 2001, 24, 1065-1073.	5.7	115
60	Reactive oxygen species-mediated enzymatic systems involved in the oxidative action of 2,4-dichlorophenoxyacetic acid*. <i>Plant, Cell and Environment</i> , 2004, 27, 1135-1148.	5.7	111
61	Peroxisomal xanthine oxidoreductase: Characterization of the enzyme from pea (<i>Pisum sativum</i> L.) leaves. <i>Journal of Plant Physiology</i> , 2008, 165, 1319-1330.	3.5	111
62	Nitro-oxidative metabolism during fruit ripening. <i>Journal of Experimental Botany</i> , 2018, 69, 3449-3463.	4.8	110
63	Crosstalk between nitric oxide (NO) and abscisic acid (ABA) signalling molecules in higher plants. <i>Environmental and Experimental Botany</i> , 2019, 161, 41-49.	4.2	109
64	Protein tyrosine nitration in higher plants grown under natural and stress conditions. <i>Frontiers in Plant Science</i> , 2013, 4, 29.	3.6	108
65	Hydrogen sulfide: A novel component in <i>Arabidopsis</i> peroxisomes which triggers catalase inhibition. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 871-883.	8.5	108
66	Detection and Quantification of S-Nitrosoglutathione (GSNO) in Pepper (<i>Capsicum annuum</i> L.) Plant Organs by LC-ES/MS. <i>Plant and Cell Physiology</i> , 2011, 52, 2006-2015.	3.1	107
67	Nitric oxide buffering and conditional nitric oxide release in stress response. <i>Journal of Experimental Botany</i> , 2018, 69, 3425-3438.	4.8	107
68	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. <i>Annals of Botany</i> , 2015, 116, 613-625.	2.9	105
69	Need of biomarkers of nitrosative stress in plants. <i>Trends in Plant Science</i> , 2007, 12, 436-438.	8.8	104
70	Hydrogen Sulfide: A New Warrior against Abiotic Stress. <i>Trends in Plant Science</i> , 2019, 24, 983-988.	8.8	104
71	Arsenate and arsenite exposure modulate antioxidants and amino acids in contrasting arsenic accumulating rice (<i>Oryza sativa</i> L.) genotypes. <i>Journal of Hazardous Materials</i> , 2013, 262, 1123-1131.	12.4	102
72	Redox and nitric oxide homeostasis are affected in tomato (<i>Solanum lycopersicum</i>) roots under salinity-induced oxidative stress. <i>Journal of Plant Physiology</i> , 2014, 171, 1028-1035.	3.5	101

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73	Nitric oxide synthase-like activity in higher plants. Nitric Oxide - Biology and Chemistry, 2017, 68, 5-6.	2.7	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	3.1	97
75	Sludge valorization from wastewater treatment plant to its application on the ceramic industry. Journal of Environmental Management, 2012, 95, S343-S348.	7.8	93
76	Lead-induced stress, which triggers the production of nitric oxide (NO) and superoxide anion (O ₂ ⁻) in Arabidopsis peroxisomes, affects catalase activity. Nitric Oxide - Biology and Chemistry, 2017, 68, 103-110.	2.7	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.	3.5	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.	9.0	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.	3.5	92
80	Endogenous hydrogen sulfide (H ₂ S) 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 H ₂ S and NO. Nitric Oxide - Biology and Chemistry, 2018, 81, 36-45.	2.7	92
81	Regulating the regulator: nitric oxide control of postâ€translational modifications. New Phytologist, 2020, 227, 1319-1325.	7.3	91
82	Protein tyrosine nitration. Plant Signaling and Behavior, 2009, 4, 920-923.	2.4	90
83	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. Trends in Plant Science, 2021, 26, 1270-1285.	8.8	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.	4.8	88
85	Proteome of plant peroxisomes: new perspectives on the role of these organelles in cell biology. Proteomics, 2009, 9, 2301-2312.	2.2	87
86	Antioxidative enzymes from chloroplasts, mitochondria, and peroxisomes during leaf senescence of nodulated pea plants. Journal of Experimental Botany, 2006, 57, 1747-1758.	4.8	86
87	Peroxisomes as a source of superoxide and hydrogen peroxide in stressed plants. Biochemical Society Transactions, 1996, 24, 434-438.	3.4	84
88	Nitric oxide-dependent regulation of sweet pepper fruit ripening. Journal of Experimental Botany, 2019, 70, 4557-4570.	4.8	84
89	Nitric oxide in the physiology and quality of fleshy fruits. Journal of Experimental Botany, 2019, 70, 4405-4417.	4.8	83
90	Assessment of olive mill solid residue (pomace) as an additive in lightweight brick production. Construction and Building Materials, 2012, 36, 495-500.	7.2	82

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91	Glyphosate-induced oxidative stress in <i>Arabidopsis thaliana</i> affecting peroxisomal metabolism and triggers activity in the oxidative phase of the pentose phosphate pathway (OxPPP) involved in NADPH generation. <i>Journal of Plant Physiology</i> , 2017, 218, 196-205.	3.5	81
92	Tyrosine nitration provokes inhibition of sunflower carbonic anhydrase (\hat{i}^2 -CA) activity under high temperature stress. <i>Nitric Oxide - Biology and Chemistry</i> , 2013, 29, 30-33.	2.7	80
93	Antioxidant Systems from Pepper (<i>Capsicum annuum</i> L.): Involvement in the Response to Temperature Changes in Ripe Fruits. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9556-9580.	4.1	78
94	Nitro-fatty acids in plant signaling: New key mediators of nitric oxide metabolism. <i>Redox Biology</i> , 2017, 11, 554-561.	9.0	77
95	Nitric oxide on/off in fruit ripening. <i>Plant Biology</i> , 2018, 20, 805-807.	3.8	75
96	Plant Peroxisomes: A Factory of Reactive Species. <i>Frontiers in Plant Science</i> , 2020, 11, 853.	3.6	73
97	Purification of Catalase from Pea Leaf Peroxisomes: Identification of Five Different Isoforms. <i>Free Radical Research</i> , 1999, 31, 235-241.	3.3	72
98	Arsenate disrupts ion balance, sulfur and nitric oxide metabolisms in roots and leaves of pea (<i>Pisum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.2	72
99	NADPH-generating dehydrogenases: their role in the mechanism of protection against nitro-oxidative stress induced by adverse environmental conditions. <i>Frontiers in Environmental Science</i> , 2014, 2, .	3.3	71
100	Plant peroxisomes at the crossroad of NO and H ₂ O ₂ metabolism. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 803-816.	8.5	71
101	Nitric oxide and hydrogen sulfide protect plasma membrane integrity and mitigate chromium-induced methylglyoxal toxicity in maize seedlings. <i>Plant Physiology and Biochemistry</i> , 2020, 157, 244-255.	5.8	68
102	Main nitric oxide (NO) hallmarks to relieve arsenic stress in higher plants. <i>Journal of Hazardous Materials</i> , 2021, 406, 124289.	12.4	68
103	Nitric Oxide and Hydrogen Sulfide Coordinately Reduce Glucose Sensitivity and Decrease Oxidative Stress via Ascorbate-Glutathione Cycle in Heat-Stressed Wheat (<i>Triticum aestivum</i> L.) Plants. <i>Antioxidants</i> , 2021, 10, 108.	5.1	67
104	Physiology of pepper fruit and the metabolism of antioxidants: chloroplasts, mitochondria and peroxisomes. <i>Annals of Botany</i> , 2015, 116, 627-636.	2.9	66
105	S-nitrosogluthathione reductase (GSNOR) activity is down-regulated during pepper (<i>Capsicum annuum</i>) Tj ETQq1 1 0.784314 rgBT /Over	2.7	64
106	Crosstalk among hydrogen sulfide (H ₂ S), nitric oxide (NO) and carbon monoxide (CO) in root-system development and its rhizosphere interactions: A gaseous interactome. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 800-814.	5.8	64
107	Cadmium and arsenic-induced-stress differentially modulates <i>Arabidopsis</i> root architecture, peroxisome distribution, enzymatic activities and their nitric oxide content. <i>Plant Physiology and Biochemistry</i> , 2020, 148, 312-323.	5.8	64
108	Cytosolic NADP-isocitrate dehydrogenase of pea plants: Genomic clone characterization and functional analysis under abiotic stress conditions. <i>Free Radical Research</i> , 2007, 41, 191-199.	3.3	62

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109	NADPâ€dehydrogenases from pepper fruits: effect of maturation. <i>Physiologia Plantarum</i> , 2009, 135, 130-139.	5.2	62
110	Inhibition of peroxisomal hydroxypyruvate reductase (HPR1) by tyrosine nitration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4981-4989.	2.4	62
111	Functions of Nitric Oxide (NO) in Roots during Development and under Adverse Stress Conditions. <i>Plants</i> , 2015, 4, 240-252.	3.5	62
112	Arsenite Tolerance is Related to Proportional Thiolic Metabolite Synthesis in Rice (<i>Oryza sativa</i> L.). <i>Archives of Environmental Contamination and Toxicology</i> , 2013, 64, 235-242.	4.1	61
113	NADPH Oxidase (Rboh) Activity is Up Regulated during Sweet Pepper (<i>Capsicum annuum</i> L.) Fruit Ripening. <i>Antioxidants</i> , 2019, 8, 9.	5.1	61
114	A role for leaf peroxisomes in the catabolism of purines. <i>Journal of Plant Physiology</i> , 1997, 151, 246-250.	3.5	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. <i>Journal of Plant Physiology</i> , 2011, 168, 1303-1308.	3.5	59
116	Nitric oxide from a â€œgreenâ€perspective. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 45, 15-19.	2.7	59
117	Silicon nanoparticles elicit an increase in lemongrass (<i>Cymbopogon flexuosus</i> (Steud.) Wats) agronomic parameters with a higher essential oil yield. <i>Journal of Hazardous Materials</i> , 2021, 412, 125254.	12.4	59
118	Modulation of superoxide dismutase (SOD) isozymes by organ development and high long-term salinity in the halophyte <i>Cakile maritima</i> . <i>Protoplasma</i> , 2016, 253, 885-894.	2.1	58
119	Inhibition of NADPâ€malic enzyme activity by H₂S and NO in sweet pepper (<i>Capsicum</i>) Tj ETQq1 1.0,784314,rgBT /Ove	5.2	57
120	Multifaceted roles of nitric oxide in tomato fruit ripening: NO-induced metabolic rewiring and consequences for fruit quality traits. <i>Journal of Experimental Botany</i> , 2021, 72, 941-958.	4.8	57
121	Recommendations on terminology and experimental best practice associated with plant nitric oxide research. <i>New Phytologist</i> , 2020, 225, 1828-1834.	7.3	56
122	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. <i>Journal of Hazardous Materials</i> , 2021, 408, 124820.	12.4	55
123	Incorporation of coffee grounds into clay brick production. <i>Advances in Applied Ceramics</i> , 2011, 110, 225-232.	1.1	53
124	Arsenic-induced stress activates sulfur metabolism in different organs of garlic (<i>Allium sativum</i> L.) plants accompanied by a general decline of the NADPH-generating systems in roots. <i>Journal of Plant Physiology</i> , 2017, 211, 27-35.	3.5	53
125	Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. <i>Journal of Experimental Botany</i> , 2021, 72, 4457-4471.	4.8	53
126	What is the role of hydrogen peroxide in plant peroxisomes?. <i>Plant Biology</i> , 2015, 17, 1099-1103.	3.8	52

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127	Protein Tyrosine Nitration during Development and Abiotic Stress Response in Plants. <i>Frontiers in Plant Science</i> , 2016, 7, 1699.	3.6	52
128	Identification and immunochemical characterization of a family of peroxisome membrane proteins (PMPs) in oilseed glyoxysomes. <i>European Journal of Cell Biology</i> , 1994, 65, 280-90.	3.6	52
129	NADP-Dependent Isocitrate Dehydrogenase from <i>Arabidopsis</i> Roots Contributes in the Mechanism of Defence against the Nitro-Oxidative Stress Induced by Salinity. <i>Scientific World Journal</i> , The, 2012, 2012, 1-9.	2.1	51
130	Transcriptomic profiling of linolenic acid-responsive genes in ROS signaling from RNA-seq data in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 122.	3.6	51
131	Nitro-linolenic acid is a nitric oxide donor. <i>Nitric Oxide - Biology and Chemistry</i> , 2016, 57, 57-63.	2.7	51
132	Sweet Pepper (<i>Capsicum annuum</i> L.) Fruits Contain an Atypical Peroxisomal Catalase That Is Modulated by Reactive Oxygen and Nitrogen Species. <i>Antioxidants</i> , 2019, 8, 374.	5.1	51
133	Nitric oxide (NO) and salicylic acid (SA): A framework for their relationship in plant development under abiotic stress. <i>Plant Biology</i> , 2021, 23, 39-49.	3.8	51
134	Functions of Melatonin during Postharvest of Horticultural Crops. <i>Plant and Cell Physiology</i> , 2023, 63, 1764-1786.	3.1	51
135	Copper-zinc superoxide dismutase is a constituent enzyme of the matrix of peroxisomes in the cotyledons of oilseed plants. <i>New Phytologist</i> , 1998, 138, 307-314.	7.3	49
136	Characterization of membrane polypeptides from pea leaf peroxisomes involved in superoxide radical generation. <i>Biochemical Journal</i> , 1999, 337, 531.	3.7	49
137	Enzymatic sources of nitric oxide in plant cells – beyond one protein – one function. <i>New Phytologist</i> , 2004, 162, 246-248.	7.3	49
138	Plant Peroxisomes, Reactive Oxygen Metabolism and Nitric Oxide. <i>IUBMB Life</i> , 2003, 55, 71-81.	3.4	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. <i>Journal of Hazardous Materials</i> , 2021, 405, 124250.	12.4	47
141	Growth, Yield, and Fruit Quality of Pepper Plants Amended with Two Sanitized Sewage Sludges. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 6951-6959.	5.2	46
142	Spatial and temporal regulation of the metabolism of reactive oxygen and nitrogen species during the early development of pepper (<i>Capsicum annuum</i>) seedlings. <i>Annals of Botany</i> , 2015, 116, 679-693.	2.9	46
143	Hydrogen sulfide: an emerging component against abiotic stress in plants. <i>Plant Biology</i> , 2022, 24, 540-558.	3.8	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. <i>FEBS Letters</i> , 2014, 588, 2049-2054.	2.8	45

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145	Immunolocalization of S-nitrosoglutathione, S-nitrosoglutathione reductase and tyrosine nitration in pea leaf organelles. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 2635-2640.	2.1	44
146	Peroxisomal NADP-isocitrate dehydrogenase is required for Arabidopsis stomatal movement. <i>Protoplasma</i> , 2016, 253, 403-415.	2.1	44
147	Peroxisomal manganese superoxide dismutase: Purification and properties of the isozyme from pea leaves. <i>Physiologia Plantarum</i> , 1998, 104, 720-726.	5.2	43
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