

Francisco Corpas

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265
papers

17,140
citations

74
h-index

122
g-index

283
ext. papers

19,565
ext. citations

5.6
avg, IF

7.17
L-index

#	Paper	IF	Citations
265	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	8.4	587
264	Salt-induced oxidative stress in chloroplasts of pea plants. <i>Plant Science</i> , 1995 , 105, 151-167	5.3	511
263	Reactive oxygen species and reactive nitrogen species in peroxisomes. Production, scavenging, and role in cell signaling. <i>Plant Physiology</i> , 2006 , 141, 330-5	6.6	475
262	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, 1532-44	8.4	441
261	Peroxisomes as a source of reactive oxygen species and nitric oxide signal molecules in plant cells. <i>Trends in Plant Science</i> , 2001 , 6, 145-50	13.1	422
260	Cellular and subcellular localization of endogenous nitric oxide in young and senescent pea plants. <i>Plant Physiology</i> , 2004 , 136, 2722-33	6.6	334
259	The activated oxygen role of peroxisomes in senescence. <i>Plant Physiology</i> , 1998 , 116, 1195-200	6.6	328
258	Salt-induced oxidative stress mediated by activated oxygen species in pea leaf mitochondria. <i>Physiologia Plantarum</i> , 1993 , 89, 103-110	4.6	312
257	Plant proteases, protein degradation, and oxidative stress: role of peroxisomes. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 521-530	5.4	293
256	Nitric oxide and nitric oxide synthase activity in plants. <i>Phytochemistry</i> , 2004 , 65, 783-92	4	286
255	Localization of nitric-oxide synthase in plant peroxisomes. <i>Journal of Biological Chemistry</i> , 1999 , 274, 36729-33	5.4	284
254	Nitrosative stress in plants. <i>FEBS Letters</i> , 2007 , 581, 453-61	3.8	269
253	Metabolism of reactive nitrogen species in pea plants under abiotic stress conditions. <i>Plant and Cell Physiology</i> , 2008 , 49, 1711-22	4.9	254
252	Constitutive arginine-dependent nitric oxide synthase activity in different organs of pea seedlings during plant development. <i>Planta</i> , 2006 , 224, 246-54	4.7	254
251	Nitric oxide imbalance provokes a nitrosative response in plants under abiotic stress. <i>Plant Science</i> , 2011 , 181, 604-11	5.3	237
250	Metabolism of reactive oxygen species and reactive nitrogen species in pepper (<i>Capsicum annuum</i> L.) plants under low temperature stress. <i>Plant, Cell and Environment</i> , 2012 , 35, 281-95	8.4	233
249	Dual regulation of cytosolic ascorbate peroxidase (APX) by tyrosine nitration and S-nitrosylation. <i>Journal of Experimental Botany</i> , 2014 , 65, 527-38	7	230

248	Differential expression and regulation of antioxidative enzymes by cadmium in pea plants. <i>Journal of Plant Physiology</i> , 2007 , 164, 1346-57	3.6	219
247	Localization of S-nitrosoglutathione and expression of S-nitrosoglutathione reductase in pea plants under cadmium stress. <i>Journal of Experimental Botany</i> , 2006 , 57, 1785-93	7	207
246	Metabolism of oxygen radicals in peroxisomes and cellular implications. <i>Free Radical Biology and Medicine</i> , 1992 , 13, 557-80	7.8	207
245	Evidence supporting the existence of L-arginine-dependent nitric oxide synthase activity in plants. <i>New Phytologist</i> , 2009 , 184, 9-14	9.8	203
244	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, 1449-59	8.4	185
243	Lead tolerance in plants: strategies for phytoremediation. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 2150-61	5.1	166
242	Assessment of Subcellular ROS and NO Metabolism in Higher Plants: Multifunctional Signaling Molecules. <i>Antioxidants</i> , 2019 , 8,	7.1	164
241	Arsenic triggers the nitric oxide (NO) and S-nitrosoglutathione (GSNO) metabolism in Arabidopsis. <i>Environmental Pollution</i> , 2012 , 166, 136-43	9.3	160
240	Protein targets of tyrosine nitration in sunflower (<i>Helianthus annuus</i> L.) hypocotyls. <i>Journal of Experimental Botany</i> , 2009 , 60, 4221-34	7	158
239	Involvement of reactive nitrogen and oxygen species (RNS and ROS) in sunflower-mildew interaction. <i>Plant and Cell Physiology</i> , 2009 , 50, 265-79	4.9	150
238	Peroxisomes are required for in vivo nitric oxide accumulation in the cytosol following salinity stress of Arabidopsis plants. <i>Plant Physiology</i> , 2009 , 151, 2083-94	6.6	143
237	Protein tyrosine nitration in pea roots during development and senescence. <i>Journal of Experimental Botany</i> , 2013 , 64, 1121-34	7	141
236	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, 1803-13	7	140
235	Nitric oxide and hydrogen sulfide in plants: which comes first?. <i>Journal of Experimental Botany</i> , 2019 , 70, 4391-4404	7	139
234	Antioxidative enzymes in cultivars of pepper plants with different sensitivity to cadmium. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 813-820	5.4	137
233	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	5.1	136
232	Glutathione reductase from pea leaves: response to abiotic stress and characterization of the peroxisomal isozyme. <i>New Phytologist</i> , 2006 , 170, 43-52	9.8	136
231	A dehydrogenase-mediated recycling system of NADPH in plant peroxisomes. <i>Biochemical Journal</i> , 1998 , 330 (Pt 2), 777-84	3.8	135

230	Function of S-nitrosoglutathione reductase (GSNOR) in plant development and under biotic/abiotic stress. <i>Plant Signaling and Behavior</i> , 2011 , 6, 789-93	2.5	127
229	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, 1803-18	8.4	127
228	Current overview of S-nitrosoglutathione (GSNO) in higher plants. <i>Frontiers in Plant Science</i> , 2013 , 4, 126	6.2	126
227	Peroxisomal monodehydroascorbate reductase. Genomic clone characterization and functional analysis under environmental stress conditions. <i>Plant Physiology</i> , 2005 , 138, 2111-23	6.6	123
226	Differential molecular response of monodehydroascorbate reductase and glutathione reductase by nitration and S-nitrosylation. <i>Journal of Experimental Botany</i> , 2015 , 66, 5983-96	7	122
225	Nitro-oxidative stress vs oxidative or nitrosative stress in higher plants. <i>New Phytologist</i> , 2013 , 199, 633-5.8	121	121
224	Characterization of membrane polypeptides from pea leaf peroxisomes involved in superoxide radical generation. <i>Biochemical Journal</i> , 1999 , 337, 531-536	3.8	121
223	Peroxisomal NADP-Dependent Isocitrate Dehydrogenase. Characterization and Activity Regulation during Natural Senescence. <i>Plant Physiology</i> , 1999 , 121, 921-928	6.6	120
222	Plant peroxisomes: A nitro-oxidative cocktail. <i>Redox Biology</i> , 2017 , 11, 535-542	11.3	118
221	Ripening of pepper (<i>Capsicum annum</i>) fruit is characterized by an enhancement of protein tyrosine nitration. <i>Annals of Botany</i> , 2015 , 116, 637-47	4.1	117
220	Proteomics as an approach to the understanding of the molecular physiology of fruit development and ripening. <i>Journal of Proteomics</i> , 2011 , 74, 1230-43	3.9	115
219	Cadmium toxicity and oxidative metabolism of pea leaf peroxisomes. <i>Free Radical Research</i> , 1999 , 31 Suppl, S25-31	4	112
218	A forty year journey: The generation and roles of NO in plants. <i>Nitric Oxide - Biology and Chemistry</i> , 2019 , 93, 53-70	5	108
217	Differential transcriptomic analysis by RNA-Seq of GSNO-responsive genes between Arabidopsis roots and leaves. <i>Plant and Cell Physiology</i> , 2014 , 55, 1080-95	4.9	105
216	Peroxynitrite (ONOO-) is endogenously produced in arabidopsis peroxisomes and is overproduced under cadmium stress. <i>Annals of Botany</i> , 2014 , 113, 87-96	4.1	103
215	Cadmium induces senescence symptoms in leaf peroxisomes of pea plants. <i>Plant, Cell and Environment</i> , 2001 , 24, 1065-1073	8.4	102
214	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, 137-46	5.3	101
213	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	8.4	100

212	Antioxidant Systems are Regulated by Nitric Oxide-Mediated Post-translational Modifications (NO-PTMs). <i>Frontiers in Plant Science</i> , 2016 , 7, 152	6.2	100
211	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	12.8	98
210	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, 2006-15	4.9	95
209	Peroxisomal xanthine oxidoreductase: characterization of the enzyme from pea (<i>Pisum sativum</i> L.) leaves. <i>Journal of Plant Physiology</i> , 2008 , 165, 1319-30	3.6	95
208	Need of biomarkers of nitrosative stress in plants. <i>Trends in Plant Science</i> , 2007 , 12, 436-8	13.1	95
207	Protein tyrosine nitration in higher plants grown under natural and stress conditions. <i>Frontiers in Plant Science</i> , 2013 , 4, 29	6.2	94
206	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	12.8	83
205	Nitro-Fatty Acids in Plant Signaling: Nitro-Linolenic Acid Induces the Molecular Chaperone Network in Arabidopsis. <i>Plant Physiology</i> , 2016 , 170, 686-701	6.6	83
204	Metabolism of Activated Oxygen in Peroxisomes from two <i>Pisum sativum</i> L. Cultivars with Different Sensitivity to Sodium Chloride. <i>Journal of Plant Physiology</i> , 1993 , 141, 160-165	3.6	83
203	Nitric oxide synthase-like activity in higher plants. <i>Nitric Oxide - Biology and Chemistry</i> , 2017 , 68, 5-6	5	82
202	The expression of different superoxide dismutase forms is cell-type dependent in olive (<i>Olea europaea</i> L.) leaves. <i>Plant and Cell Physiology</i> , 2006 , 47, 984-94	4.9	82
201	Zinc induces distinct changes in the metabolism of reactive oxygen and nitrogen species (ROS and RNS) in the roots of two Brassica species with different sensitivity to zinc stress. <i>Annals of Botany</i> , 2015 , 116, 613-25	4.1	81
200	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, 1123-31	12.8	81
199	Protein tyrosine nitration: a new challenge in plants. <i>Plant Signaling and Behavior</i> , 2009 , 4, 920-3	2.5	81
198	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, 1028-35	3.6	80
197	HS signaling in plants and applications in agriculture. <i>Journal of Advanced Research</i> , 2020 , 24, 131-137	13	78
196	Proteome of plant peroxisomes: new perspectives on the role of these organelles in cell biology. <i>Proteomics</i> , 2009 , 9, 2301-12	4.8	78
195	Peroxisomes as a source of superoxide and hydrogen peroxide in stressed plants. <i>Biochemical Society Transactions</i> , 1996 , 24, 434-8	5.1	77

194	Lead-induced stress, which triggers the production of nitric oxide (NO) and superoxide anion (O) in Arabidopsis peroxisomes, affects catalase activity. <i>Nitric Oxide - Biology and Chemistry</i> , 2017 , 68, 103-110 ⁵	76
193	Antioxidative enzymes from chloroplasts, mitochondria, and peroxisomes during leaf senescence of nodulated pea plants. <i>Journal of Experimental Botany</i> , 2006 , 57, 1747-58	7 76
192	Nitric oxide buffering and conditional nitric oxide release in stress response. <i>Journal of Experimental Botany</i> , 2018 , 69, 3425-3438	7 74
191	Roles for redox regulation in leaf senescence of pea plants grown on different sources of nitrogen nutrition. <i>Journal of Experimental Botany</i> , 2006 , 57, 1735-45	7 74
190	Revisiting the role of ROS and RNS in plants under changing environment. <i>Environmental and Experimental Botany</i> , 2019 , 161, 1-3	5.9 73
189	Plant catalases as NO and HS targets. <i>Redox Biology</i> , 2020 , 34, 101525	11.3 70
188	Sludge valorization from wastewater treatment plant to its application on the ceramic industry. <i>Journal of Environmental Management</i> , 2012 , 95 Suppl, S343-8	7.9 69
187	Nitro-oxidative metabolism during fruit ripening. <i>Journal of Experimental Botany</i> , 2018 , 69, 3449-3463	7 67
186	Purification of catalase from pea leaf peroxisomes: identification of five different isoforms. <i>Free Radical Research</i> , 1999 , 31 Suppl, S235-41	4 67
185	Characterization of the galactono-1,4-lactone dehydrogenase from pepper fruits and its modulation in the ascorbate biosynthesis. Role of nitric oxide. <i>Redox Biology</i> , 2017 , 12, 171-181	11.3 63
184	Hydrogen Sulfide: A New Warrior against Abiotic Stress. <i>Trends in Plant Science</i> , 2019 , 24, 983-988	13.1 61
183	Tyrosine nitration provokes inhibition of sunflower carbonic anhydrase (ECA) activity under high temperature stress. <i>Nitric Oxide - Biology and Chemistry</i> , 2013 , 29, 30-3	5 61
182	Alleviation of Cr(VI)-induced oxidative stress in maize (<i>Zea mays</i> L.) seedlings by NO and HS donors through differential organ-dependent regulation of ROS and NADPH-recycling metabolisms. <i>Journal of Plant Physiology</i> , 2017 , 219, 71-80	3.6 60
181	Assessment of olive mill solid residue (pomace) as an additive in lightweight brick production. <i>Construction and Building Materials</i> , 2012 , 36, 495-500	6.7 60
180	Crosstalk between nitric oxide (NO) and abscisic acid (ABA) signalling molecules in higher plants. <i>Environmental and Experimental Botany</i> , 2019 , 161, 41-49	5.9 60
179	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, 9556-80	6.3 59
178	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,	4.8 58
177	Endogenous hydrogen sulfide (HS) is up-regulated during sweet pepper (<i>Capsicum annuum</i> L.) fruit ripening. In vitro analysis shows that NADP-dependent isocitrate dehydrogenase (ICDH) activity is inhibited by HS and NO. <i>Nitric Oxide - Biology and Chemistry</i> , 2018 , 81, 36-45	5 58

176	A role for leaf peroxisomes in the catabolism of purines. <i>Journal of Plant Physiology</i> , 1997 , 151, 246-250	3.6	57
175	Cytosolic NADP-isocitrate dehydrogenase of pea plants: genomic clone characterization and functional analysis under abiotic stress conditions. <i>Free Radical Research</i> , 2007 , 41, 191-9	4	56
174	Nitro-fatty acids in plant signaling: New key mediators of nitric oxide metabolism. <i>Redox Biology</i> , 2017 , 11, 554-561	11.3	54
173	Physiology of pepper fruit and the metabolism of antioxidants: chloroplasts, mitochondria and peroxisomes. <i>Annals of Botany</i> , 2015 , 116, 627-36	4.1	54
172	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, 235-42	3.2	53
171	Arsenate disrupts ion balance, sulfur and nitric oxide metabolisms in roots and leaves of pea (<i>Pisum sativum</i> L.) plants. <i>Environmental and Experimental Botany</i> , 2019 , 161, 143-156	5.9	52
170	S-nitrosoglutathione reductase (GSNOR) activity is down-regulated during pepper (<i>Capsicum annuum</i> L.) fruit ripening. <i>Nitric Oxide - Biology and Chemistry</i> , 2017 , 68, 51-55	5	51
169	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	3.6	51
168	NADP-dehydrogenases from pepper fruits: effect of maturation. <i>Physiologia Plantarum</i> , 2009 , 135, 130-4.6	4.6	51
167	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	6.1	50
166	Nitric oxide-dependent regulation of sweet pepper fruit ripening. <i>Journal of Experimental Botany</i> , 2019 , 70, 4557-4570	7	49
165	Nitric oxide on/off in fruit ripening. <i>Plant Biology</i> , 2018 , 20, 805-807	3.7	49
164	Functions of Nitric Oxide (NO) in Roots during Development and under Adverse Stress Conditions. <i>Plants</i> , 2015 , 4, 240-52	4.5	49
163	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	8.3	48
162	Regulating the regulator: nitric oxide control of post-translational modifications. <i>New Phytologist</i> , 2020 , 227, 1319-1325	9.8	48
161	Inhibition of peroxisomal hydroxypyruvate reductase (HPR1) by tyrosine nitration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4981-9	4	48
160	Nitric oxide from a "green" perspective. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 45, 15-9	5	48
159	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, 1303-8	3.6	48

158	NADP-dependent isocitrate dehydrogenase from Arabidopsis roots contributes in the mechanism of defence against the nitro-oxidative stress induced by salinity. <i>Scientific World Journal, The</i> , 2012 , 2012, 694740	2.2	46
157	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	9.8	46
156	Enzymatic sources of nitric oxide in plant cells beyond one protein one function. <i>New Phytologist</i> , 2004 , 162, 246-248	9.8	45
155	Plant peroxisomes, reactive oxygen metabolism and nitric oxide. <i>IUBMB Life</i> , 2003 , 55, 71-81	4.7	45
154	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	3.6	44
153	What is the role of hydrogen peroxide in plant peroxisomes?. <i>Plant Biology</i> , 2015 , 17, 1099-103	3.7	44
152	Characterization of membrane polypeptides from pea leaf peroxisomes involved in superoxide radical generation. <i>Biochemical Journal</i> , 1999 , 337, 531	3.8	44
151	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	3.4	42
150	Protein Tyrosine Nitration during Development and Abiotic Stress Response in Plants. <i>Frontiers in Plant Science</i> , 2016 , 7, 1699	6.2	42
149	Immunolocalization of S-nitrosoglutathione, S-nitrosoglutathione reductase and tyrosine nitration in pea leaf organelles. <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 2635-2640	2.6	41
148	Plant peroxisomes at the crossroad of NO and H ₂ O ₂ metabolism. <i>Journal of Integrative Plant Biology</i> , 2019 , 61, 803-816	8.3	40
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. <i>Annals of Botany</i> , 2015 , 116, 679-93	4.1	39
146	In vivo and in vitro approaches demonstrate proline is not directly involved in the protection against superoxide, nitric oxide, nitrogen dioxide and peroxyxynitrite. <i>Functional Plant Biology</i> , 2016 , 43, 870-879	2.7	39
145	Peroxisomal NADP-isocitrate dehydrogenase is required for Arabidopsis stomatal movement. <i>Protoplasma</i> , 2016 , 253, 403-15	3.4	38
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, 2049-54	3.8	38
143	Recommendations on terminology and experimental best practice associated with plant nitric oxide research. <i>New Phytologist</i> , 2020 , 225, 1828-1834	9.8	38
142	Nitro-linolenic acid is a nitric oxide donor. <i>Nitric Oxide - Biology and Chemistry</i> , 2016 , 57, 57-63	5	38
141	Differential response of NADP-dehydrogenases and carbon metabolism in leaves and roots of two durum wheat (<i>Triticum durum</i> Desf.) cultivars (Karim and Azizi) with different sensitivities to salt stress. <i>Journal of Plant Physiology</i> , 2015 , 179, 56-63	3.6	37

140	Hypothesis: Nitro-fatty acids play a role in plant metabolism. <i>Plant Science</i> , 2013 , 199-200, 1-6	5.3	37
139	Peroxisomal plant metabolism - an update on nitric oxide, Ca and the NADPH recycling network. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	37
138	Peroxisomal manganese superoxide dismutase: Purification and properties of the isozyme from pea leaves. <i>Physiologia Plantarum</i> , 1998 , 104, 720-726	4.6	37
137	Post-translational modifications mediated by reactive nitrogen species: Nitrosative stress responses or components of signal transduction pathways?. <i>Plant Signaling and Behavior</i> , 2008 , 3, 301-3	2.5	37
136	Nitric oxide in the physiology and quality of fleshy fruits. <i>Journal of Experimental Botany</i> , 2019 , 70, 4405-4417	3.6	36
135	Vinyl sulfone silica: application of an open preactivated support to the study of transnitrosylation of plant proteins by S-nitrosoglutathione. <i>BMC Plant Biology</i> , 2013 , 13, 61	5.3	36
134	Addition of bottom ash from biomass in calcium silicate masonry units for use as construction material with thermal insulating properties. <i>Construction and Building Materials</i> , 2014 , 52, 155-165	6.7	36
133	Growth, yield, and fruit quality of pepper plants amended with two sanitized sewage sludges. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 6951-9	5.7	36
132	NADPH Oxidase (Rboh) Activity is Up Regulated during Sweet Pepper (L.) Fruit Ripening. <i>Antioxidants</i> , 2019 , 8,	7.1	34
131	Incorporation of coffee grounds into clay brick production. <i>Advances in Applied Ceramics</i> , 2011 , 110, 225-232	2.3	34
130	Cadmium and arsenic-induced-stress differentially modulates Arabidopsis root architecture, peroxisome distribution, enzymatic activities and their nitric oxide content. <i>Plant Physiology and Biochemistry</i> , 2020 , 148, 312-323	5.4	33
129	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. <i>Journal of Plant Physiology</i> , 2016 , 192, 81-9	3.6	33
128	Plant Peroxisomes: A Factory of Reactive Species. <i>Frontiers in Plant Science</i> , 2020 , 11, 853	6.2	32
127	Sweet Pepper (L.) Fruits Contain an Atypical Peroxisomal Catalase That is Modulated by Reactive Oxygen and Nitrogen Species. <i>Antioxidants</i> , 2019 , 8,	7.1	31
126	Peroxisomal membrane manganese superoxide dismutase: characterization of the isozyme from watermelon (<i>Citrullus lanatus</i> Schrad.) cotyledons. <i>Journal of Experimental Botany</i> , 2007 , 58, 2417-27	7	31
125	Crosstalk among hydrogen sulfide (HS), 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	5.4	31
124	Nitric Oxide and Hydrogen Sulfide Coordinately Reduce Glucose Sensitivity and Decrease Oxidative Stress via Ascorbate-Glutathione Cycle in Heat-Stressed Wheat (L.) Plants. <i>Antioxidants</i> , 2021 , 10,	7.1	31
123	The plant 73 kDa peroxisomal membrane protein (PMP73) is immunorelated to molecular chaperones. <i>European Journal of Cell Biology</i> , 1997 , 73, 49-57	6.1	31

122	Evidence for the presence of proteolytic activity in peroxisomes. <i>European Journal of Cell Biology</i> , 1993 , 61, 81-5	6.1	30
121	Differential expression of ascorbate peroxidase and a putative molecular chaperone in the boundary membrane of differentiating cucumber seedling peroxisomes. <i>Journal of Plant Physiology</i> , 1998 , 153, 332-338	3.6	29
120	Characterization of membrane polypeptides from pea leaf peroxisomes involved in superoxide radical generation. <i>Biochemical Journal</i> , 1999 , 337 (Pt 3), 531-6	3.8	29
119	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). <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 99	3.1	28
118	Transcriptomic profiling of linolenic acid-responsive genes in ROS signaling from RNA-seq data in Arabidopsis. <i>Frontiers in Plant Science</i> , 2015 , 6, 122	6.2	27
117	Activated oxygen-mediated metabolic functions of leaf peroxisomes. <i>Physiologia Plantarum</i> , 1998 , 104, 673-680	4.6	27
116	Identification of porin-like polypeptide(s) in the boundary membrane of oilseed glyoxysomes. <i>Plant and Cell Physiology</i> , 2000 , 41, 1218-28	4.9	27
115	Subcellular distribution of superoxide dismutase in leaves of ureide-producing leguminous plants. <i>Physiologia Plantarum</i> , 1991 , 82, 285-291	4.6	27
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