Fernanda Fidalgo

List of Publications by Year
in descending order

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67 papers	2,240 citations	236925 25 h-index	233421 45 g-index
70 all docs	70 docs citations	70 times ranked	2502 citing authors

#	Article	IF	Citations
1	Plants facing oxidative challengesâ€"A little help from the antioxidant networks. Environmental and Experimental Botany, 2019, 161, 4-25.	4.2	277
2	Effect of 24-epibrassinolide on ROS content, antioxidant system, lipid peroxidation and Ni uptake in Solanum nigrum L. under Ni stress. Environmental and Experimental Botany, 2016, 122, 115-125.	4.2	175
3	Copperâ€induced stress in <scp>S</scp>olanum nigrum L. and antioxidant defense system responses. Food and Energy Security, 2013, 2, 70-80.	4.3	105
4	Biochemical and ultrastructural changes in leaves of potato plants grown under supplementary UV-B radiation. Plant Science, 2004, 167, 925-935.	3.6	103
5	Nitric oxideâ€mediated regulation of oxidative stress in plants under metal stress: a review on molecular and biochemical aspects. Physiologia Plantarum, 2020, 168, 318-344.	5.2	102
6	Effects of long-term salt stress on antioxidant defence systems, leaf water relations and chloroplast ultrastructure of potato plants. Annals of Applied Biology, 2004, 145, 185-192.	2.5	94
7	Solanum nigrum L. antioxidant defence system isozymes are regulated transcriptionally and posttranslationally in Cd-induced stress. Environmental and Experimental Botany, 2011, 72, 312-319.	4.2	76
8	Activity of tonoplast proton pumps and Na+/H+ exchange in potato cell cultures is modulated by salt. Journal of Experimental Botany, 2009, 60, 1363-1374.	4.8	73
9	In vitro selection of salt tolerant cell lines in Solanum tuberosum L.. Biologia Plantarum, 2007, 51, 728-734.	1.9	64
10	SiO2 nanomaterial as a tool to improve Hordeum vulgare L. tolerance to nano-NiO stress. Science of the Total Environment, 2018, 622-623, 517-525.	8.0	60
11	Is soil contamination by a glyphosate commercial formulation truly harmless to non-target plants? â€" Evaluation of oxidative damage and antioxidant responses in tomato. Environmental Pollution, 2019, 247, 256-265.	7.5	58
12	Phytostabilization of nickel by the zinc and cadmium hyperaccumulator Solanum nigrum L. Are metallothioneins involved?. Plant Physiology and Biochemistry, 2012, 57, 254-260.	5.8	57
13	Ecotoxicological relevance of nano-NiO and acetaminophen to Hordeum vulgare L.: Combining standardized procedures and physiological endpoints. Chemosphere, 2016, 165, 442-452.	8.2	56
14	Differential responses of the antioxidant defence system and ultrastructure in a salt-adapted potato cell line. Plant Physiology and Biochemistry, 2011, 49, 1410-1419.	5.8	47
15	Salicylic acid alleviates glyphosate-induced oxidative stress in Hordeum vulgare L. Journal of Environmental Management, 2019, 241, 226-234.	7.8	47
16	Salt stress affects glutamine synthetase activity and mRNA accumulation on potato plants in an organ-dependent manner. Plant Physiology and Biochemistry, 2009, 47, 807-813.	5.8	45
17	ANTIOXIDANT PROPERTIES AND FRUIT QUALITY DURING LONGâ€TERM STORAGE OF â€œROCHAâ€•PEAR: EFFECTS OF MATURITY AND STORAGE CONDITIONS. Journal of Food Quality, 2010, 33, 1-20.	2.6	45
18	An efficient antioxidant system and heavy metal exclusion from leaves make Solanum cheesmaniae more tolerant to Cu than its cultivated counterpart. Food and Energy Security, 2017, 6, 123-133.	4.3	43

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19	Polyamines as key regulatory players in plants under metal stressâ€"A way for an enhanced tolerance. Annals of Applied Biology, 2021, 178, 209-226.	2.5	42
20	Physiological and biochemical responses to the exogenous application of proline of tomato plants irrigated with saline water. Journal of the Saudi Society of Agricultural Sciences, 2018, 17, 17-23.	1.9	41
21	Oxidative Metabolism of Rye (Secale cereale L.) after Short Term Exposure to Aluminum: Uncovering the Glutathioneâ€"Ascorbate Redox Network. Frontiers in Plant Science, 2016, 7, 685.	3.6	34
22	Effect of hydrogen peroxide on catalase gene expression, isoform activities and levels in leaves of potato sprayed with homobrassinolide and ultrastructural changes in mesophyll cells. Functional Plant Biology, 2005, 32, 707.	2.1	32
23	Influence of the temporal and spatial variation of nitrate reductase, glutamine synthetase and soil composition in the N species content in lettuce (Lactuca sativa). Plant Science, 2014, 219-220, 35-41.	3.6	31
24	Metalaxyl Effects on Antioxidant Defenses in Leaves and Roots of Solanum nigrum L.. Frontiers in Plant Science, 2017, 8, 1967.	3.6	31
25	Glyphosate-dependent effects on photosynthesis of Solanum lycopersicum L.â€"An ecophysiological, ultrastructural and molecular approach. Journal of Hazardous Materials, 2020, 398, 122871.	12.4	29
26	Temperature Variation under Continuous Light Restores Tomato Leaf Photosynthesis and Maintains the Diurnal Pattern in Stomatal Conductance. Frontiers in Plant Science, 2017, 8, 1602.	3.6	28
27	Solanum nigrum L. weed plants as a remediation tool for metalaxyl-polluted effluents and soils. Chemosphere, 2011, 85, 744-750.	8.2	25
28	Metalaxyl-induced changes in the antioxidant metabolism of Solanum nigrum L. suspension cells. Pesticide Biochemistry and Physiology, 2013, 107, 235-243.	3.6	25
29	Dynamic controlled atmosphere for prevention of internal browning disorders in â€˜Rochaâ€™ pear. LWT - Food Science and Technology, 2016, 65, 725-730.	5.2	24
30	Phytotoxic effects of bulk and nano-sized Ni on Lycium barbarum L. grown inÂvitro â€“ Oxidative damage and antioxidant response. Chemosphere, 2019, 218, 507-516.	8.2	24
31	Can nano-SiO2 reduce the phytotoxicity of acetaminophen? â€“ A physiological, biochemical and molecular approach. Environmental Pollution, 2018, 241, 900-911.	7.5	22
32	Characterization of aspartic proteinases in C. cardunculus L. callus tissue for its prospective transformation. Plant Science, 2010, 178, 140-146.	3.6	20
33	Response of Solanum lycopersicum L. to diclofenac â€“ Impacts on the plantâ€™s antioxidant mechanisms. Environmental Pollution, 2020, 258, 113762.	7.5	18
34	Diclofenac shifts the role of root glutamine synthetase and glutamate dehydrogenase for maintaining nitrogen assimilation and proline production at the expense of shoot carbon reserves in Solanum lycopersicum L. Environmental Science and Pollution Research, 2020, 27, 29130-29142.	5.3	16
35	Impact of Combined Heat and Salt Stresses on Tomato Plantsâ€"Insights into Nutrient Uptake and Redox Homeostasis. Antioxidants, 2022, 11, 478.	5.1	16
36	In vitrobulb formation ofNarcissus asturiensis, a threatened species of theAmaryllidaceae. Journal of Horticultural Science and Biotechnology, 2002, 77, 149-152.	1.9	15

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37	Photo-Fenton plus Solanum nigrum L. weed plants integrated process for the abatement of highly concentrated metalaxyl on waste waters. Chemical Engineering Journal, 2012, 184, 213-220.	12.7	15
38	Metallothionein multigene family expression is differentially affected by <scp>C</scp>hromium (<scp>III</scp>) and (<scp>VI</scp>) in <scp>S</scp>olanum nigrum <scp>L</scp>. plants. Food and Energy Security, 2013, 2, 130-140.	4.3	14
39	Silicon Improves the Redox Homeostasis to Alleviate Glyphosate Toxicity in Tomato Plantsâ€"Are Nanomaterials Relevant?. Antioxidants, 2021, 10, 1320.	5.1	14
40	Specific roles of potato glutamine synthetase isoenzymes in callus tissue grown under salinity: molecular and biochemical responses. Plant Cell, Tissue and Organ Culture, 2006, 87, 1-7.	2.3	13
41	Ecotoxicological Assessment of a Glyphosate-Based Herbicide in Cover Plants: Medicago sativa L. as a Model Species. Applied Sciences (Switzerland), 2020, 10, 5098.	2.5	13
42	Al exposure increases proline levels by different pathways in an Al-sensitive and an Al-tolerant rye genotype. Scientific Reports, 2020, 10, 16401.	3.3	13
43	Metal-Based Nanomaterials and Oxidative Stress in Plants: Current Aspects and Overview. , 2018, , 197-227.		12
44	Nano-Fe2O3 as a tool to restore plant growth in contaminated soils â€“ Assessment of potentially toxic elements (bio)availability and redox homeostasis in Hordeum vulgare L. Journal of Hazardous Materials, 2022, 425, 127999.	12.4	12
45	Foliar application of 24-epibrassinolide improves Solanum nigrum L. tolerance to high levels of Zn without affecting its remediation potential. Chemosphere, 2020, 244, 125579.	8.2	10
46	Vineyard calcium sprays reduce the damage of postharvest grape berries by stimulating enzymatic antioxidant activity and pathogen defense genes, despite inhibiting phenolic synthesis. Plant Physiology and Biochemistry, 2021, 162, 48-55.	5.8	9
47	Herbicidal Effects and Cellular Targets of Aqueous Extracts from Young Eucalyptus globulus Labill. Leaves. Plants, 2021, 10, 1159.	3.5	8
48	Foliar Application of Sodium Nitroprusside Boosts Solanum lycopersicum L. Tolerance to Glyphosate by Preventing Redox Disorders and Stimulating Herbicide Detoxification Pathways. Plants, 2021, 10, 1862.	3.5	8
49	Cr (VI)-induced oxidative damage impairs ammonia assimilation into organic forms in Solanum lycopersicum L.. Plant Stress, 2021, 2, 100034.	5.5	8
50	EFFECT OF 1-METHYLCYCLOPROPENE AND DIPHENYLAMINE ON STORAGE DISORDERS AND WATER-SOLUBLE ANTIOXIDANTS OF 'ROCHA' PEAR. Acta Horticulturae, 2008, , 993-998.	0.2	8
51	Specific glutathione-S-transferases ensure an efficient detoxification of diclofenac in Solanum lycopersicum L. plants. Plant Physiology and Biochemistry, 2021, 168, 263-271.	5.8	8
52	Effects of Deltamethrin on Field Grown Potato Plants:Biochemical and Ultrastructural Aspects. Annals of Botany, 1993, 72, 263-267.	2.9	7
53	Fucoid Macroalgae Have Distinct Physiological Mechanisms to Face Emersion and Submersion Periods in Their Southern Limit of Distribution. Plants, 2021, 10, 1892.	3.5	7
54	Early Activation of Antioxidant Responses in Ni-Stressed Tomato Cultivars Determines Their Resilience Under Co-exposure to Drought. Journal of Plant Growth Regulation, 2023, 42, 877-891.	5.1	7

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55	Phylogenetic relationship of potato CAT1 and CAT2 genes, their differential expression in non-photosynthetic organs and during leaf development, and their association with different cellular processes. Functional Plant Biology, 2006, 33, 639.	2.1	6
56	Targeting key metabolic points for an enhanced phytoremediation of wastewaters pre-treated by the photo-Fenton process using Solanum nigrum L.. Ecotoxicology and Environmental Safety, 2015, 120, 124-129.	6.0	6
57	Differential effects of acetophenone on shoots' and roots' metabolism of Solanum nigrum L. plants and implications in its phytoremediation. Plant Physiology and Biochemistry, 2018, 130, 391-398.	5.8	6
58	Nutritional value of potato tubers from field grown plants treated with deltamethrin. Potato Research, 2000, 43, 43-48.	2.7	5
59	Induction of somatic embryogenesis inIris hollandicaHort. cv. â€˜Bronze Queenâ€™. Journal of Horticultural Science and Biotechnology, 2005, 80, 135-138.	1.9	5
60	INTERNAL BROWNING DISORDERS IN 'ROCHA' PEAR STORED UNDER HIGH CO2 ATMOSPHERES ARE TRIGGERED BY OXIDATIVE STRESS. Acta Horticulturae, 2015, , 771-778.	0.2	5
61	Wrack Composed by Fucus spp, Ascophyllum nodosum and Pelvetia canaliculata Limits Metal Uptake and Restores the Redox Homeostasis of Barley Plants Grown in Cu-Contaminated Soils. Journal of Plant Growth Regulation, 2022, 41, 3544-3555.	5.1	4
62	Regional Environmental Gradients Influence Ecophysiological Responses of Dominant Coastal Dune Plants to Changes in Local Conditions. Journal of Coastal Research, 2014, 297, 893-903.	0.3	2
63	Ultrastructural aspects of a NaCl-adapted potato cell line. Microscopy and Microanalysis, 2009, 15, 41-42.	0.4	1
64	Effects of environmental constraints on the oxidative status of Ascophylum nodosum and Fucus serratus. Frontiers in Marine Science, 0, 5, .	2.5	1
65	The potential of beach wrack as plant biostimulant to mitigate metal toxicity: mineral composition, antioxidant properties and effects against Cu-induced stress. Journal of Applied Phycology, 2022, 34, 667-678.	2.8	1
66	Callus tissue of Solanum tuberosum L. cultured in the presence of the pyrethroid deltamethrin. Annals of Applied Biology, 1997, 131, 171-178.	2.5	0
67	ASSESSMENT OF GENETIC VARIATION IN POTATO CALLUS TISSUE UNDER SALINITY USING RAPD MARKERS. Acta Horticulturae, 2012, , 177-184.	0.2	0