

Jose Antonio Hernandez

List of Publications by Year in descending order

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126
papers

10,987
citations

46918

47
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30848

102
g-index

131
all docs

131
docs citations

131
times ranked

8936
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Responses to Salt Stress: Adaptive Mechanisms. <i>Agronomy</i> , 2017, 7, 18.	1.3	872
2	Evidence for the Presence of the Ascorbate-Glutathione Cycle in Mitochondria and Peroxisomes of Pea Leaves. <i>Plant Physiology</i> , 1997, 114, 275-284.	2.3	758
3	Tolerance of pea (<i>Pisum sativum</i> L.) to long-term salt stress is associated with induction of antioxidant defences. <i>Plant, Cell and Environment</i> , 2000, 23, 853-862.	2.8	720
4	Antioxidant Systems and O ₂ ^{•-} /H ₂ O ₂ Production in the Apoplast of Pea Leaves. Its Relation with Salt-Induced Necrotic Lesions in Minor Veins. <i>Plant Physiology</i> , 2001, 127, 817-831.	2.3	624
5	Salt-induced oxidative stress in chloroplasts of pea plants. <i>Plant Science</i> , 1995, 105, 151-167.	1.7	579
6	Short-term effects of salt stress on antioxidant systems and leaf water relations of pea leaves. <i>Physiologia Plantarum</i> , 2002, 115, 251-257.	2.6	383
7	The Activated Oxygen Role of Peroxisomes in Senescence ¹ . <i>Plant Physiology</i> , 1998, 116, 1195-1200.	2.3	354
8	Salt-induced oxidative stress mediated by activated oxygen species in pea leaf mitochondria. <i>Physiologia Plantarum</i> , 1993, 89, 103-110.	2.6	342
9	Induction of antioxidant enzymes is involved in the greater effectiveness of a PGPR versus AM fungi with respect to increasing the tolerance of lettuce to severe salt stress. <i>Environmental and Experimental Botany</i> , 2009, 65, 245-252.	2.0	328
10	Role of the Ascorbate-Glutathione Cycle of Mitochondria and Peroxisomes in the Senescence of Pea Leaves. <i>Plant Physiology</i> , 1998, 118, 1327-1335.	2.3	318
11	Plant-growth-promoting rhizobacteria and arbuscular mycorrhizal fungi modify alleviation biochemical mechanisms in water-stressed plants. <i>Functional Plant Biology</i> , 2008, 35, 141.	1.1	294
12	Response of antioxidant systems and leaf water relations to NaCl stress in pea plants. <i>New Phytologist</i> , 1999, 141, 241-251.	3.5	234
13	Involvement of cytosolic ascorbate peroxidase and Cu/Zn-superoxide dismutase for improved tolerance against drought stress. <i>Journal of Experimental Botany</i> , 2011, 62, 2599-2613.	2.4	227
14	Differential Response of Antioxidative Enzymes of Chloroplasts and Mitochondria to Long-term NaCl Stress of Pea Plants. <i>Free Radical Research</i> , 1999, 31, 11-18.	1.5	195
15	Alteration in the chloroplastic metabolism leads to ROS accumulation in pea plants in response to plum pox virus. <i>Journal of Experimental Botany</i> , 2008, 59, 2147-2160.	2.4	189
16	Interaction between hydrogen peroxide and plant hormones during germination and the early growth of pea seedlings. <i>Plant, Cell and Environment</i> , 2010, 33, 981-994.	2.8	182
17	Understanding the role of H ₂ O ₂ during pea seed germination: a combined proteomic and hormone profiling approach. <i>Plant, Cell and Environment</i> , 2011, 34, 1907-1919.	2.8	173
18	The apoplastic antioxidant system in <i>Prunus</i> : response to long-term plum pox virus infection. <i>Journal of Experimental Botany</i> , 2006, 57, 3813-3824.	2.4	172

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19	Ectopic expression of cytosolic superoxide dismutase and ascorbate peroxidase leads to salt stress tolerance in transgenic plums. <i>Plant Biotechnology Journal</i> , 2013, 11, 976-985.	4.1	122
20	Physiological and biochemical mechanisms of the ornamental <i>Eugenia myrtifolia</i> L. plants for coping with NaCl stress and recovery. <i>Planta</i> , 2015, 242, 829-846.	1.6	120
21	Salinity Tolerance in Plants: Trends and Perspectives. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2408.	1.8	119
22	Antioxidant enzyme activities in shoots from three mycorrhizal shrub species afforested in a degraded semi-arid soil. <i>Physiologia Plantarum</i> , 2003, 118, 562-570.	2.6	115
23	Oxidative stress induced by long-term plum pox virus infection in peach (<i>Prunus persica</i>). <i>Physiologia Plantarum</i> , 2004, 122, 486-495.	2.6	103
24	NaCl-induced physiological and biochemical adaptative mechanisms in the ornamental <i>Myrtus communis</i> L. plants. <i>Journal of Plant Physiology</i> , 2015, 183, 41-51.	1.6	101
25	Induction of Several Antioxidant Enzymes in the Selection of a Salt-Tolerant Cell Line of <i>Pisum sativum</i> . <i>Journal of Plant Physiology</i> , 1994, 144, 594-598.	1.6	99
26	Elucidating hormonal/ROS networks during seed germination: insights and perspectives. <i>Plant Cell Reports</i> , 2013, 32, 1491-1502.	2.8	99
27	Effects of salt on lipid peroxidation and antioxidant enzyme activities of <i>Catharanthus roseus</i> suspension cells. <i>Plant Science</i> , 2005, 168, 607-613.	1.7	96
28	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.	1.6	92
29	Oxidative stress and antioxidative responses in plant-virus interactions. <i>Physiological and Molecular Plant Pathology</i> , 2016, 94, 134-148.	1.3	88
30	Role of antioxidant enzymatic defences against oxidative stress (H ₂ O ₂) and the acquisition of oxidative tolerance in <i>Candida albicans</i> . <i>Yeast</i> , 2003, 20, 1161-1169.	0.8	87
31	Salt stress-induced changes in superoxide dismutase isozymes in leaves and mesophyll protoplasts from <i>Vigna unguiculata</i> (L.) Walp.. <i>New Phytologist</i> , 1994, 126, 37-44.	3.5	86
32	Long-term plum pox virus infection produces an oxidative stress in a susceptible apricot, <i>Prunus armeniaca</i> , cultivar but not in a resistant cultivar. <i>Physiologia Plantarum</i> , 2006, 126, 140-152.	2.6	80
33	The effect of calcium on the antioxidant enzymes from salt-treated loquat and anger plants. <i>Functional Plant Biology</i> , 2003, 30, 1127.	1.1	78
34	Role of H ₂ O ₂ in pea seed germination. <i>Plant Signaling and Behavior</i> , 2012, 7, 193-195.	1.2	78
35	Ectopic overexpression of the cell wall invertase gene CIN1 leads to dehydration avoidance in tomato. <i>Journal of Experimental Botany</i> , 2015, 66, 863-878.	2.4	75
36	Structure and expression of three genes encoding ACC oxidase homologs from melon (<i>Cucumis melo</i>) Tj ETQq0 0 Q rgBT /Overlock 10 T	2.4	72

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37	Involvement of antioxidant enzyme and nitrate reductase activities during water stress and recovery of mycorrhizal <i>Myrtus communis</i> and <i>Phillyrea angustifolia</i> plants. <i>Plant Science</i> , 2005, 169, 191-197.	1.7	72
38	Antioxidant enzyme activities and hormonal status in response to Cd stress in the wetland halophyte <i>Kosteletzkya virginica</i> under saline conditions. <i>Physiologia Plantarum</i> , 2013, 147, 352-368.	2.6	72
39	Salicylic acid negatively affects the response to salt stress in pea plants. <i>Plant Biology</i> , 2011, 13, 909-917.	1.8	68
40	Salt-tolerance mechanisms induced in <i>Stevia rebaudiana</i> Berton: Effects on mineral nutrition, antioxidative metabolism and steviol glycoside content. <i>Plant Physiology and Biochemistry</i> , 2017, 115, 484-496.	2.8	68
41	Effect of rootstocks grafting and boron on the antioxidant systems and salinity tolerance of loquat plants (<i>Eriobotrya japonica</i> Lindl.). <i>Environmental and Experimental Botany</i> , 2007, 60, 151-158.	2.0	64
42	The apoplastic antioxidant system and altered cell wall dynamics influence mesophyll conductance and the rate of photosynthesis. <i>Plant Journal</i> , 2019, 99, 1031-1046.	2.8	60
43	Enhanced salt-induced antioxidative responses involve a contribution of polyamine biosynthesis in grapevine plants. <i>Journal of Plant Physiology</i> , 2014, 171, 779-788.	1.6	59
44	Response of antioxidative enzymes to plum pox virus in two apricot cultivars. <i>Physiologia Plantarum</i> , 2001, 111, 313-321.	2.6	58
45	Somatic embryogenesis in saffron (<i>Crocus sativus</i> L.). Histological differentiation and implication of some components of the antioxidant enzymatic system. <i>Plant Cell, Tissue and Organ Culture</i> , 2009, 97, 49-57.	1.2	56
46	The apoplastic antioxidant enzymatic system in the wood-forming tissues of trees. <i>Trees - Structure and Function</i> , 2006, 20, 145-156.	0.9	54
47	Changes in antioxidant enzymes and organic solutes associated with adaptation of citrus cells to salt stress. <i>Plant Cell, Tissue and Organ Culture</i> , 1996, 45, 53-60.	1.2	50
48	Differential activation of two ACC oxidase gene promoters from melon during plant development and in response to pathogen attack. <i>Molecular Genetics and Genomics</i> , 1997, 256, 211-222.	2.4	49
49	Role of hydrogen peroxide and the redox state of ascorbate in the induction of antioxidant enzymes in pea leaves under excess light stress. <i>Functional Plant Biology</i> , 2004, 31, 359.	1.1	48
50	Mitochondrial and peroxisomal ascorbate peroxidase of pea leaves. <i>Physiologia Plantarum</i> , 1998, 104, 687-692.	2.6	47
51	Superoxide dismutase and total peroxidase activities in relation to drought recovery performance of mycorrhizal shrub seedlings grown in an amended semiarid soil. <i>Journal of Plant Physiology</i> , 2008, 165, 715-722.	1.6	46
52	Modulation of tobacco bacterial disease resistance using cytosolic ascorbate peroxidase and Cu,Zn-superoxide dismutase. <i>Plant Pathology</i> , 2012, 61, 858-866.	1.2	46
53	The long-term resistance mechanisms, critical irrigation threshold and relief capacity shown by <i>Eugenia myrtifolia</i> plants in response to saline reclaimed water. <i>Plant Physiology and Biochemistry</i> , 2017, 111, 244-256.	2.8	45
54	Antioxidant Systems and O ₂ ·-/H ₂ O ₂ Production in the Apoplast of Pea Leaves. Its Relation with Salt-Induced Necrotic Lesions in Minor Veins. <i>Plant Physiology</i> , 2001, 127, 817-831.	2.3	43

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55	Chloroplast protection in plum pox virus-infected peach plants by L-2-thiazolidine-4-carboxylic acid treatments: effect in the proteome. <i>Plant, Cell and Environment</i> , 2013, 36, 640-654.	2.8	43
56	Sharka: how do plants respond to Plum pox virus infection?. <i>Journal of Experimental Botany</i> , 2015, 66, 25-35.	2.4	41
57	Towards a Sustainable Agriculture: Strategies Involving Phytoprotectants against Salt Stress. <i>Agronomy</i> , 2020, 10, 194.	1.3	41
58	Effect of Arbuscular Mycorrhizae and Induced Drought Stress on Antioxidant Enzyme and Nitrate Reductase Activities in <i>Juniperus oxycedrus</i> L. Grown in a Composted Sewage Sludge-amended Semi-arid Soil. <i>Plant and Soil</i> , 2006, 279, 209-218.	1.8	37
59	Salts and nutrients present in regenerated waters induce changes in water relations, antioxidative metabolism, ion accumulation and restricted ion uptake in <i>Myrtus communis</i> L. plants. <i>Plant Physiology and Biochemistry</i> , 2014, 85, 41-50.	2.8	37
60	ROS formation is a differential contributory factor to the fungicidal action of Amphotericin B and Micafungin in <i>Candida albicans</i> . <i>International Journal of Medical Microbiology</i> , 2017, 307, 241-248.	1.5	36
61	Benzothiadiazole and L-2-oxothiazolidine-4-carboxylic acid reduce the severity of Sharka symptoms in pea leaves: effect on antioxidative metabolism at the subcellular level. <i>Plant Biology</i> , 2010, 12, 88-97.	1.8	34
62	Cu/Zn superoxide dismutase and ascorbate peroxidase enhance in vitro shoot multiplication in transgenic plum. <i>Journal of Plant Physiology</i> , 2013, 170, 625-632.	1.6	33
63	Metabolomics and Biochemical Approaches Link Salicylic Acid Biosynthesis to Cyanogenesis in Peach Plants. <i>Plant and Cell Physiology</i> , 2017, 58, 2057-2066.	1.5	32
64	Glutathione-Mediated Biotic Stress Tolerance in Plants. , 2017, , 309-329.		32
65	Subcellular distribution of superoxide dismutase in leaves of ureide-producing leguminous plants. <i>Physiologia Plantarum</i> , 1991, 82, 285-291.	2.6	31
66	Characterization of the antioxidant system during the vegetative development of pea plants. <i>Biologia Plantarum</i> , 2010, 54, 76-82.	1.9	31
67	Effect of Salt Stress on the Superoxide Dismutase Activity in Leaves of <i>Citrus limonum</i> in Different Rootstock-Scion Combinations. <i>Biologia Plantarum</i> , 2002, 45, 545-549.	1.9	30
68	Role of thioproline on seed germination: Interaction ROS-ABA and effects on antioxidative metabolism. <i>Plant Physiology and Biochemistry</i> , 2012, 59, 30-36.	2.8	30
69	Effectiveness and persistence of arbuscular mycorrhizal fungi on the physiology, nutrient uptake and yield of Crimson seedless grapevine. <i>Journal of Agricultural Science</i> , 2015, 153, 1084-1096.	0.6	28
70	Plant growth stimulation in <i>Prunus</i> species plantlets by BTH or OTC treatments under in vitro conditions. <i>Journal of Plant Physiology</i> , 2012, 169, 1074-1083.	1.6	27
71	Study of the antioxidant enzymatic system during shoot development from cultured intercalary meristems of saffron. <i>Plant Growth Regulation</i> , 2011, 65, 119-126.	1.8	26
72	Modeling the ascorbate-glutathione cycle in chloroplasts under light/dark conditions. <i>BMC Systems Biology</i> , 2015, 10, 11.	3.0	26

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73	Physiological and biochemical characterization of bud dormancy: Evolution of carbohydrate and antioxidant metabolisms and hormonal profile in a low chill peach variety. <i>Scientia Horticulturae</i> , 2021, 281, 109957.	1.7	26
74	Breaking seed dormancy in long-term stored seeds from Iranian wild almond species. <i>Seed Science and Technology</i> , 2009, 37, 267-275.	0.6	24
75	Oxidative stress induced in tobacco leaves by chloroplast over-expression of maize plastidial transglutaminase. <i>Planta</i> , 2010, 232, 593-605.	1.6	24
76	Modified atmosphere generated during storage under light conditions is the main factor responsible for the quality changes of baby spinach. <i>Postharvest Biology and Technology</i> , 2016, 114, 45-53.	2.9	23
77	Nitrate- and nitric oxide-induced plant growth in pea seedlings is linked to antioxidative metabolism and the ABA/GA balance. <i>Journal of Plant Physiology</i> , 2018, 230, 13-20.	1.6	23
78	<i>Trichoderma harzianum</i> supplementation of compost stimulates the antioxidant defence system in melon plants. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 2208-2214.	1.7	22
79	Irrigation of <i>Myrtus communis</i> plants with reclaimed water: morphological and physiological responses to different levels of salinity. <i>Journal of Horticultural Science and Biotechnology</i> , 2014, 89, 487-494.	0.9	21
80	Transformation of plum plants with a cytosolic ascorbate peroxidase transgene leads to enhanced water stress tolerance. <i>Annals of Botany</i> , 2016, 117, 1121-1131.	1.4	21
81	Mycorrhizal inoculation on compost substrate affects nutritional balance, water uptake and photosynthetic efficiency in <i>Cistus albidus</i> plants submitted to water stress. <i>Revista Brasileira De Botanica</i> , 2018, 41, 299-310.	0.5	21
82	Antioxidant enzyme induction in pea plants under high irradiance. <i>Biologia Plantarum</i> , 2006, 50, 395-399.	1.9	20
83	Oxidative stress induction by <i>Prunus necrotic ringspot virus</i> infection in apricot seeds. <i>Physiologia Plantarum</i> , 2007, 131, 302-310.	2.6	19
84	Interplay among Antioxidant System, Hormone Profile and Carbohydrate Metabolism during Bud Dormancy Breaking in a High-Chill Peach Variety. <i>Antioxidants</i> , 2021, 10, 560.	2.2	19
85	Halophyte based Mediterranean agriculture in the contexts of food insecurity and global climate change. <i>Environmental and Experimental Botany</i> , 2021, 191, 104601.	2.0	18
86	On the Role of Salicylic Acid in Plant Responses to Environmental Stresses. , 2017, , 17-34.		18
87	Effect of salinity on metalloenzymes of oxygen metabolism in two leguminous plants. <i>Journal of Plant Nutrition</i> , 1993, 16, 2539-2554.	0.9	16
88	l-Galactono-1,3-Lactone Dehydrogenase Activity and Vitamin C Content in Fresh-Cut Potatoes Stored under Controlled Atmospheres. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 4296-4302.	2.4	16
89	Correlation between the intracellular content of glutathione and the formation of germ-tubes induced by human serum in <i>Candida albicans</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1722, 324-330.	1.1	16
90	A new prognostic model identifies patients aged 80 years and older with diffuse large B-cell lymphoma who may benefit from curative treatment: A multicenter, retrospective analysis by the Spanish GELTAMO group. <i>American Journal of Hematology</i> , 2018, 93, 867-873.	2.0	16

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91	The Apoplastic and Symplastic Antioxidant System in Onion: Response to Long-Term Salt Stress. <i>Antioxidants</i> , 2020, 9, 67.	2.2	16
92	Antioxidant Metabolism and Chlorophyll Fluorescence during the Acclimatisation to Ex Vitro Conditions of Micropropagated <i>Stevia rebaudiana</i> Bertoni Plants. <i>Antioxidants</i> , 2019, 8, 615.	2.2	15

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109	Acetylsalicylic acid improved antioxidative status and cold storage of encapsulated nodal segments of neem (<i>Azadirachta indica</i> A. Juss.). <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 261-270.	1.2	8
110	Changes in the antioxidative metabolism induced by Apple chlorotic leaf spot virus infection in peach [<i>Prunus persica</i> (L.) Batsch]. <i>Environmental and Experimental Botany</i> , 2011, 70, 277-282.	2.0	7
111	<i>Plum pox virus</i> (PPV) infection produces an imbalance on the antioxidative systems in <i>Prunus</i> species. <i>Acta Phytopathologica Et Entomologica Hungarica</i> , 2007, 42, 209-221.	0.1	7
112	Plant Responses to Salinity Through an Antioxidative Metabolism and Proteomic Point of View. , 2017, , 173-200.		6
113	Substrate composition affects the development of water stress and subsequent recovery by inducing physiological changes in <i>Cistus albidus</i> plants. <i>Plant Physiology and Biochemistry</i> , 2021, 158, 125-135.	2.8	6
114	Cr (III) Removal Capacity in Aqueous Solution in Relation to the Functional Groups Present in the Orange Peel (<i>Citrus sinensis</i>). <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6346.	1.3	6
115	Subcellular distribution of superoxide dismutase in leaves of ureide-producing leguminous plants. <i>Physiologia Plantarum</i> , 1991, 82, 285-291.	2.6	5
116	H ₂ O ₂ -Elicitation of Black Carrot Hairy Roots Induces a Controlled Oxidative Burst Leading to Increased Anthocyanin Production. <i>Plants</i> , 2021, 10, 2753.	1.6	5
117	Seed Science Research: Global Trends in Seed Biology and Technology. <i>Seeds</i> , 2022, 1, 1-4.	0.7	4
118	Active oxygen metabolism in the senescence of pea leaves: ascorbate and glutathione contents in different cell compartments. <i>Biochemical Society Transactions</i> , 1996, 24, 198S-198S.	1.6	3
119	The cellular resistance against oxidative stress (H ₂ O ₂) is independent of neutral trehalase (Ntc1p) activity in <i>Candida albicans</i> . <i>FEMS Yeast Research</i> , 2006, 6, 319-319.	1.1	3
120	The use of reclaimed water is a viable and safe strategy for the irrigation of myrtle plants in a scenario of climate change. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 1741-1747.	1.0	2
121	Molecular characterization using SSR markers and biochemical analysis of Moroccan and Spanish argan [<i>Argania spinosa</i> (L.) Skeels] ecotypes under water stress and rewatering. <i>Biologia (Poland)</i> , 2021, 76, 799-808.	0.8	2
122	Development of molecular markers linkaged to Sharka (<i>Plum pox virus</i> , PPV) resistance in <i>Prunus</i> . <i>Acta Phytopathologica Et Entomologica Hungarica</i> , 2007, 42, 223-233.	0.1	1
123	Where biotic and abiotic stress responses converge: Common patterns in response to salinity and Plum pox virus infection in pea and peach plants. <i>Annals of Applied Biology</i> , 2021, 178, 281-292.	1.3	1
124	GammapatÃas biclonales: Â¿un significado clÃnico diferente?. <i>Revista Clinica Espanola</i> , 2015, 215, 31-32.	0.2	0
125	Hydrogen Peroxide Imbibition Following Cold Stratification Promotes Seed Germination Rate and Uniformity in Peach cv. GF305. <i>Seeds</i> , 2022, 1, 28-35.	0.7	0
126	Basic Integration of Artificial Intelligence of a Plant Experimentation Chamber with LEDs and Sensors through Connection to the IoT with Node-RED and Securing Access to Data. , 0, , .		0