Manuel Acosta

List of Publications by Year
in descending order

84 papers	5,951 citations	101543 36 h-index	71685 76 g-index
84 all docs	84 docs citations	84 times ranked	5757 citing authors

#	Article	IF	Citations
1	An <scp>auxinâ€mediated</scp> regulatory framework for <scp>woundâ€induced</scp> adventitious root formation in tomato shoot explants. Plant, Cell and Environment, 2021, 44, 1642-1662.	5.7	22
2	Integration of Phenotype and Hormone Data during Adventitious Rooting in Carnation (Dianthus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.5	6
3	Molecular and physiological control of adventitious rooting in cuttings: phytohormone action meets resource allocation. Annals of Botany, 2019, 123, 929-949.	2.9	165
4	A comprehensive phylogeny of auxin homeostasis genes involved in adventitious root formation in carnation stem cuttings. PLoS ONE, 2018, 13, e0196663.	2.5	24
5	Enhanced Conjugation of Auxin by GH3 Enzymes Leads to Poor Adventitious Rooting in Carnation Stem Cuttings. Frontiers in Plant Science, 2018, 9, 566.	3.6	33
6	Multiple factors influence adventitious rooting in carnation (Dianthus caryophyllus L.) stem cuttings. Plant Growth Regulation, 2017, 81, 511-521.	3.4	15
7	Gene expression profiling during adventitious root formation in carnation stem cuttings. BMC Genomics, 2015, 16, 789.	2.8	67
8	Quantitative Analysis of Adventitious Root Growth Phenotypes in Carnation Stem Cuttings. PLoS ONE, 2015, 10, e0133123.	2.5	21
9	Adventitious Root Development in Ornamental Plants: Insights from Carnation Stem Cuttings. Soil Biology, 2014, , 423-441.	0.8	1
10	Early steps of adventitious rooting: morphology, hormonal profiling and carbohydrate turnover in carnation stem cuttings. Physiologia Plantarum, 2014, 150, 446-462.	5.2	91
11	Simultaneous quantification of phytohormones in fermentation extracts of Botryodiplodia theobromae by liquid chromatographyâ€"electrospray tandem mass spectrometry. World Journal of Microbiology and Biotechnology, 2014, 30, 1937-1946.	3.6	17
12	Relationships between endogenous hormonal content and direct somatic embryogenesis in Prunus persica L. Batsch cotyledons. Plant Growth Regulation, 2013, 71, 219-224.	3.4	11
13	Evaluation of ploidy level and endoreduplication in carnation (Dianthus spp.). Plant Science, 2013, 201-202, 1-11.	3.6	36
14	Auxins or Sugars: What Makes the Difference in the Adventitious Rooting of Stored Carnation Cuttings?. Journal of Plant Growth Regulation, 2011, 30, 100-113.	5.1	85
15	Root-synthesized cytokinins improve shoot growth and fruit yield in salinized tomato (Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock	4.8	198
16	Rooting of carnation cuttings. Plant Signaling and Behavior, 2009, 4, 234-236.	2.4	15
17	Rootstockâ€mediated changes in xylem ionic and hormonal status are correlated with delayed leaf senescence, and increased leaf area and crop productivity in salinized tomato. Plant, Cell and Environment, 2009, 32, 928-938.	5.7	201
18	Isolation and characterization of a cDNA clone encoding an auxin influx carrier in carnation cuttings. Expression in different organs and cultivars and its relationship with cold storage. Plant Physiology and Biochemistry, 2008, 46, 1071-1076.	5.8	21

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19	Hormonal changes in relation to biomass partitioning and shoot growth impairment in salinized tomato (Solanum lycopersicum L.) plants. Journal of Experimental Botany, 2008, 59, 4119-4131.	4.8	376
20	Hormonal changes during salinity-induced leaf senescence in tomato (Solanum lycopersicum L.). Journal of Experimental Botany, 2008, 59, 3039-3050.	4.8	244
21	Growing in darkness. Plant Signaling and Behavior, 2008, 3, 406-408.	2.4	3
22	INCREASING VEGETATIVE GROWTH, YIELD AND SEED QUANTITY IN TOMATO BY INDUCING PLANT VIGOUR AT THE EARLIEST SEEDLING STAGE. Acta Horticulturae, 2008, , 265-272.	0.2	4
23	Variation in indole-3-acetic acid transport and its relationship with growth in etiolated lupin hypocotyls. Journal of Plant Physiology, 2007, 164, 851-860.	3.5	16
24	The expression of genes coding for auxin carriers in different tissues and along the organ can explain variations in auxin transport and the growth pattern in etiolated lupin hypocotyls. Planta, 2007, 227, 133-142.	3.2	11
25	Role of basipetal auxin transport and lateral auxin movement in rooting and growth of etiolated lupin hypocotyls. Physiologia Plantarum, 2004, 121, 294-304.	5.2	27
26	Differential substrate behaviour of phenol and aniline derivatives during oxidation by horseradish peroxidase: kinetic evidence for a two-step mechanism. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1699, 235-243.	2.3	19
27	Polar Transport of Indole-3-Acetic Acid in Relation to Rooting in Carnation Cuttings: Influence of Cold Storage Duration and Cultivar. Biologia Plantarum, 2003, 46, 481-485.	1.9	14
28	Hydrophilic and lipophilic antioxidant activity changes during on-vine ripening of tomatoes (Lycopersicon esculentum Mill.). Postharvest Biology and Technology, 2003, 28, 59-65.	6.0	134
29	Reactions of the Class II Peroxidases, Lignin Peroxidase andArthromyces ramosus Peroxidase, with Hydrogen Peroxide. Journal of Biological Chemistry, 2002, 277, 26879-26885.	3.4	71
30	On-line antioxidant activity determination: comparison of hydrophilic and lipophilic antioxidant activity using the ABTSâ€¢+assay. Redox Report, 2002, 7, 103-109.	4.5	52
31	Complexes Between m-chloroperoxybenzoic Acid and Horseradish Peroxidase Compounds I and II: Implications for the Kinetics of Enzyme Inactivation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 287-291.	5.2	4
32	Hydrophilic and lipophilic antioxidant activities of grapes. Molecular Nutrition and Food Research, 2002, 46, 353-356.	0.0	33
33	Origin and basipetal transport of the IAA responsible for rooting of carnation cuttings. Physiologia Plantarum, 2002, 114, 303-312.	5.2	85
34	A peroxidase isoenzyme secreted by turnip (Brassica napus) hairy-root cultures: inactivation by hydrogen peroxide and application in diagnostic kits. Biotechnology and Applied Biochemistry, 2002, 35, 1.	3.1	76
35	Catalase-like Oxygen Production by Horseradish Peroxidase Must Predominantly Be an Enzyme-Catalyzed Reaction. Archives of Biochemistry and Biophysics, 2001, 392, 295-302.	3.0	56
36	Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. Biochemical Journal, 2001, 354, 107-114.	3.7	149

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37	Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. Biochemical Journal, 2001, 354, 107.	3.7	86
38	Detection of a tryptophan radical in the reaction of ascorbate peroxidase with hydrogen peroxide. FEBS Journal, 2001, 268, 3091-3098.	0.2	52
39	Estimation of free radical-quenching activity of leaf pigment extracts. Phytochemical Analysis, 2001, 12, 138-143.	2.4	69
40	The inactivation of horseradish peroxidase isoenzyme AZ by hydrogen peroxide: an example of partial resistance due to the formation of a stable enzyme intermediate. Journal of Biological Inorganic Chemistry, 2001, 6, 504-516.	2.6	45
41	The hydrophilic and lipophilic contribution to total antioxidant activity. Food Chemistry, 2001, 73, 239-244.	8.2	1,019
42	QUANTITATION OF INDOLE-3-ACETIC ACID BY LC WITH ELECTROCHEMICAL DETECTION IN ETIOLATED HYPOCOTYLS OF LUPINUS ALBUS. Journal of Liquid Chromatography and Related Technologies, 2001, 24, 3095-3104.	1.0	20
43	Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. Biochemical Journal, 2000, 348, 321.	3.7	31
44	Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. Biochemical Journal, 2000, 348, 321-328.	3.7	87
45	A method to measure antioxidant activity in organic media: application to lipophilic vitamins. Redox Report, 2000, 5, 365-370.	4.5	128
46	Characterization of isoperoxidase-B2 inactivation in etiolated Lupinus albus hypocotyls. BBA - Proteins and Proteomics, 2000, 1478, 78-88.	2.1	9
47	Short-term salt tolerance mechanisms in differentially salt tolerant tomato species. Plant Physiology and Biochemistry, 1999, 37, 65-71.	5.8	73
48	Influence of 2,3,5-Triiodobenzoic Acid and 1-N-Naphthylphthalamic Acid on Indoleacetic Acid Transport in Carnation Cuttings: Relationship with Rooting. Journal of Plant Growth Regulation, 1999, 18, 183-190.	5.1	47
49	Methods to Measure the Antioxidant Activity in Plant Material. A Comparative Discussion. Free Radical Research, 1999, 31, 89-96.	3.3	144
50	An end-point method for estimation of the total antioxidant activity in plant material. Phytochemical Analysis, 1998, 9, 196-202.	2.4	296
51	Polyamines as short-term salt tolerance traits in tomato. Plant Science, 1998, 138, 9-16.	3.6	40
52	Formation and growth of roots in carnation cuttings: influence of cold storage period and auxin treatment. Scientia Horticulturae, 1998, 74, 219-231.	3.6	28
53	Changes in free polyamine levels induced by salt stress in leaves of cultivated and wild tomato species. Physiologia Plantarum, 1997, 101, 341-346.	5.2	5
54	The Inactivation and Catalytic Pathways of Horseradish Peroxidase with m-Chloroperoxybenzoic Acid. Journal of Biological Chemistry, 1997, 272, 5469-5476.	3.4	75

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55	Effects of NaCl and mannitol iso-osmotic stresses on the free polyamine levels in leaf discs of tomato species differing in salt tolerance. Journal of Plant Physiology, 1997, 151, 754-758.	3.5	21
56	Changes in free polyamine levels induced by salt stress in leaves of cultivated and wild tomato species. Physiologia Plantarum, 1997, 101, 341-346.	5.2	84
57	Influence of peroxides, ascorbate and glutathione on germination and growth in Lupinus albus L.. Biologia Plantarum, 1997, 39, 457-461.	1.9	6
58	Influence of cold storage period and auxin treatment on the subsequent rooting of carnation cuttings. Scientia Horticulturae, 1996, 65, 73-84.	3.6	27
59	Inhibition of Etiolated Lupin Hypocotyl Growth and Rooting by Peroxides, Ascorbate and Glutathione. Journal of Plant Physiology, 1996, 147, 721-728.	3.5	13
60	Indole-3-carbinol as a scavenger of free radicals. IUBMB Life, 1996, 39, 1125-1134.	3.4	27
61	A comparative study of the purity, enzyme activity, and inactivation by hydrogen peroxide of commercially available horseradish peroxidase isoenzymes A and C. Biotechnology and Bioengineering, 1996, 50, 655-662.	3.3	83
62	Inhibition byl-Ascorbic Acid and Other Antioxidants of the 2,2â€²-Azino-bis(3-ethylbenzthiazoline-6-sulfonic Acid) Oxidation Catalyzed by Peroxidase: A New Approach for Determining Total Antioxidant Status of Foods. Analytical Biochemistry, 1996, 236, 255-261.	2.4	162
63	A Comparative Study of the Inactivation of Wild-Type, Recombinant and Two Mutant Horseradish Peroxidase Isoenzymes C by Hydrogen Peroxide and m-chloroperoxybenzoic Acid. FEBS Journal, 1995, 234, 506-512.	0.2	68
64	The inactivation of horseradish peroxidase by m-chloroperoxybenzoic acid, a xenobiotic hydroperoxide. Journal of Molecular Catalysis A, 1995, 104, 179-191.	4.8	9
65	A Kinetic Study of Simultaneous Suicide Inactivation and Irreversible Inhibition of An Enzyme. Application to 1-Aminocyclopropane-1-Carboxylate (Acc) Synthase Inactivation by its Substrate S-Adenosylmethionine. Journal of Enzyme Inhibition and Medicinal Chemistry, 1993, 7, 1-14.	0.5	3
66	Modification by Ethylene of the Cell Growth Pattern in Different Tissues of Etiolated Lupine Hypocotyls. Plant Physiology, 1992, 98, 1121-1127.	4.8	18
67	The Decrease in Auxin Polar Transport Down the Lupin Hypocotyl Could Produce the Indole-3-Acetic Acid Distribution Responsible for the Elongation Growth Pattern. Plant Physiology, 1992, 100, 108-114.	4.8	30
68	Influence of 2,3,5-triiodobenzoic acid on the transport and metabolism of IAA in lupin hypocotyls. Journal of Plant Growth Regulation, 1992, 11, 135-141.	5.1	11
69	Catalytic oxidation of 2,4,5-trihydroxyphenylalanine by tyrosinase: identification and evolution of intermediates. BBA - Proteins and Proteomics, 1992, 1160, 221-228.	2.1	30
70	1-Aminocyclopropane-1-carâ˜ylic acid as a substrate of peroxidase: conditions for oxygen consumption, hydroperoxide generation and ethylene production. BBA - Proteins and Proteomics, 1991, 1077, 273-280.	2.1	8
71	Influence of ACC and Ethephon on cell growth in etiolated lupin hypocotyls. dependence on cell growth state. Biologia Plantarum, 1991, 33, 81.	1.9	11
72	Lateral diffusion of polarly transported indoleacetic acid and its role in the growth of Lupinus albus L. hypocotyls. Planta, 1991, 185, 391-6.	3.2	23

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73	Ethylene and Polyamine Metabolism in Climacteric and Nonclimacteric Carnation Flowers. Hortscience: A Publication of the American Society for Hortcultural Science, 1991, 26, 894-896.	1.0	43
74	Inactivation of peroxidase by hydrogen peroxide and its protection by a reductant agent. BBA - Proteins and Proteomics, 1990, 1038, 85-89.	2.1	166
75	A kinetic study on the suicide inactivation of peroxidase by hydrogen peroxide. BBA - Proteins and Proteomics, 1990, 1041, 43-47.	2.1	256
76	Identification of the metabolites of Indole-3-acetic acid in growing hypocotyls of Lupinus albus. Plant Growth Regulation, 1990, 9, 315-327.	3.4	5
77	Ethylene evolution during ripening of detached tomato fruit: Its relation with polyamine metabolism. Plant Growth Regulation, 1990, 9, 89-96.	3.4	22
78	An enzymatic colorimetric method for measuring naringin using 2,2â€²-azino-bis-(3-ethylbenzthiazoline-6-sulfonic acid) (ABTS) in the presence of peroxidase. Analytical Biochemistry, 1990, 185, 335-338.	2.4	79
79	Action and mechanism of Î±-aminoisobutyric acid as a retardant of cut carnation senescence. Scientia Horticulturae, 1990, 44, 127-134.	3.6	16
80	Evaluation of Indole-3-acetic Acid Decarboxylating Activity in Hypocotyl Sections of Etiolated Lupinus albus Seedlings. Journal of Plant Physiology, 1989, 134, 517-523.	3.5	9
81	Evolution and distribution of growth in etiolated hypocotyls ofLupinus albus. Biologia Plantarum, 1988, 30, 268-274.	1.9	12
82	Distribution of indole-3-acetic acid in relation to the growth of etiolated Lupinus albus hypocotyls. Physiologia Plantarum, 1986, 66, 509-514.	5.2	23
83	Indole-3-methanol as an intermediate in the oxidation of indole-3-acetic acid by peroxidase. Physiologia Plantarum, 1983, 57, 75-78.	5.2	22
84	Absence of biological activity in oxidation products of indoleacetic acid. Biologia Plantarum, 1976, 18, 460-463.	1.9	7