Alfonso Albacete

List of Publications by Year
in descending order

93	4,218	147566 31	118652 62
papers	citations	h-index	g-index

96	96	96	5044
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	2.4	376
2	Hormonal changes during salinity-induced leaf senescence in tomato (Solanum lycopersicum L.). Journal of Experimental Botany, 2008, 59, 3039-3050.	2.4	244
3	Unravelling rootstockxscion interactions to improve food security. Journal of Experimental Botany, 2015, 66, 2211-2226.	2.4	238
4	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.	2.8	201
5	Root-synthesized cytokinins improve shoot growth and fruit yield in salinized tomato (Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	198
6	Overexpression of the vascular brassinosteroid receptor BRL3 confers drought resistance without penalizing plant growth. Nature Communications, 2018, 9, 4680.	5.8	189
7	Interaction between hydrogen peroxide and plant hormones during germination and the early growth of pea seedlings. Plant, Cell and Environment, 2010, 33, 981-994.	2.8	182
8	Hormonal and metabolic regulation of sourceâ€“sink relations under salinity and drought: From plant survival to crop yield stability. Biotechnology Advances, 2014, 32, 12-30.	6.0	162
9	Stomatal and mesophyll conductances to CO₂ are the main limitations to photosynthesis in sugar beet (Beta vulgaris) plants grown with excess zinc. New Phytologist, 2010, 187, 145-158.	3.5	134
10	Hormonal regulation of source - sink relations to maintain crop productivity under salinity: a case study of root-to-shoot signalling in tomato. Functional Plant Biology, 2010, 37, 592.	1.1	115
11	Exploring the use of recombinant inbred lines in combination with beneficial microbial inoculants (AM fungus and PGPR) to improve drought stress tolerance in tomato. Environmental and Experimental Botany, 2016, 131, 47-57.	2.0	104
12	Root-targeted biotechnology to mediate hormonal signalling and improve crop stress tolerance. Plant Cell Reports, 2011, 30, 807-823.	2.8	96
13	Red blotch disease alters grape berry development and metabolism by interfering with the transcriptional and hormonal regulation of ripening. Journal of Experimental Botany, 2017, 68, 1225-1238.	2.4	92
14	Early steps of adventitious rooting: morphology, hormonal profiling and carbohydrate turnover in carnation stem cuttings. Physiologia Plantarum, 2014, 150, 446-462.	2.6	91
15	The interaction with arbuscular mycorrhizal fungi or Trichoderma harzianum alters the shoot hormonal profile in melon plants. Phytochemistry, 2011, 72, 223-229.	1.4	90
16	Simple and robust determination of the activity signature of key carbohydrate metabolism enzymes for physiological phenotyping in model and crop plants. Journal of Experimental Botany, 2015, 66, 5531-5542.	2.4	83
17	The interaction between foliar GA3 application and arbuscular mycorrhizal fungi inoculation improves growth in salinized tomato (Solanum lycopersicum L.) plants by modifying the hormonal balance. Journal of Plant Physiology, 2017, 214, 134-144.	1.6	78
18	Ectopic overexpression of the cell wall invertase gene CIN1 leads to dehydration avoidance in tomato. Journal of Experimental Botany, 2015, 66, 863-878.	2.4	75

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19	Antioxidant enzyme activities and hormonal status inÂresponse to Cd stress in the wetland halophyte Kosteletzkya virginica under saline conditions. Physiologia Plantarum, 2013, 147, 352-368.	2.6	72
20	Improving agronomic water use efficiency in tomato by rootstock-mediated hormonal regulation of leaf biomass. Plant Science, 2016, 251, 90-100.	1.7	62
21	Impact of salinity on early reproductive physiology of tomato (Solanum lycopersicum) in relation to a heterogeneous distribution of toxic ions in flower organs. Functional Plant Biology, 2009, 36, 125.	1.1	61
22	Physiological and molecular analysis of the interaction between aluminium toxicity and drought stress in common bean (Phaseolus vulgaris). Journal of Experimental Botany, 2012, 63, 3109-3125.	2.4	61
23	Hormonal and metabolic regulation of tomato fruit sink activity and yield under salinity. Journal of Experimental Botany, 2014, 65, 6081-6095.	2.4	61
24	Trichoderma harzianum and Glomus intraradices Modify the Hormone Disruption Induced by Fusarium oxysporum Infection in Melon Plants. Phytopathology, 2010, 100, 682-688.	1.1	54
25	Selecting vegetative/generative/dwarfing rootstocks for improving fruit yield and quality in water stressed sweet peppers. Scientia Horticulturae, 2017, 214, 9-17.	1.7	51
26	A Rapid Phytohormone and Phytoalexin Screening Method for Physiological Phenotyping. Molecular Plant, 2014, 7, 1053-1056.	3.9	50
27	The Arabidopsis PLAT Domain Protein1 Is Critically Involved in Abiotic Stress Tolerance. PLoS ONE, 2014, 9, e112946.	1.1	47
28	Response of nitrogen fixation in relation to nodule carbohydrate metabolism in Medicago ciliaris lines subjected to salt stress. Journal of Plant Physiology, 2009, 166, 477-488.	1.6	42
29	Genetic analysis of physiological components of salt tolerance conferred by Solanum rootstocks. What is the rootstock doing for the scion?. Theoretical and Applied Genetics, 2010, 121, 105-115.	1.8	39
30	Interaction between Humic Substances and Plant Hormones for Phosphorous Acquisition. Agronomy, 2020, 10, 640.	1.3	35
31	Phytohormone profile in Lactuca sativa and Brassica oleracea plants grown under Zn deficiency. Phytochemistry, 2016, 130, 85-89.	1.4	33
32	Enhanced Conjugation of Auxin by GH3 Enzymes Leads to Poor Adventitious Rooting in Carnation Stem Cuttings. Frontiers in Plant Science, 2018, 9, 566.	1.7	33
33	Deficiency in riboflavin biosynthesis affects tetrapyrrole biosynthesis in etiolated Arabidopsis tissue. Plant Molecular Biology, 2012, 78, 77-93.	2.0	32
34	Study of phytohormone profile and oxidative metabolism as key process to identification of salinity response in tomato commercial genotypes. Journal of Plant Physiology, 2017, 216, 164-173.	1.6	32
35	Response to nitrate/ammonium nutrition of tomato (Solanum lycopersicum L.) plants overexpressing a prokaryotic NH4+-dependent asparagine synthetase. Journal of Plant Physiology, 2013, 170, 676-687.	1.6	31
36	Role of thioproline on seed germination: Interaction ROS-ABA and effects on antioxidative metabolism. Plant Physiology and Biochemistry, 2012, 59, 30-36.	2.8	30

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37	Overproduction of <scp>ABA</scp> in rootstocks alleviates salinity stress in tomato shoots. Plant, Cell and Environment, 2021, 44, 2966-2986.	2.8	30
38	Impact of overexpression of 9-cis-epoxycarotenoid dioxygenase on growth and gene expression under salinity stress. Plant Science, 2020, 295, 110268.	1.7	29
39	Principal component analysis of hormone profiling data suggests an important role for cytokinins in regulating leaf growth and senescence of salinized tomato. Plant Signaling and Behavior, 2010, 5, 45-48.	1.2	28
40	Hormonal and Nutritional Features in Contrasting Rootstock-mediated Tomato Growth under Low-phosphorus Nutrition. Frontiers in Plant Science, 2017, 08, 533.	1.7	24
41	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.	2.8	22
42	Influence of municipal solid waste (MSW) compost on hormonal status and biomass partitioning in two forage species growing under saline soil conditions. Ecological Engineering, 2014, 64, 142-150.	1.6	21
43	Root-to-Shoot Hormonal Communication in Contrasting Rootstocks Suggests an Important Role for the Ethylene Precursor Aminocyclopropane-1-carboxylic Acid in Mediating Plant Growth under Low-Potassium Nutrition in Tomato. Frontiers in Plant Science, 2016, 7, 1782.	1.7	21
44	Genetic analysis of rootstock-mediated nitrogen (N) uptake and root-to-shoot signalling at contrasting N availabilities in tomato. Plant Science, 2017, 263, 94-106.	1.7	21
45	Leaf phytohormone levels and stomatal control in an evergreen woody species under semiarid environment in a Brazilian seasonally dry tropical forest. Plant Growth Regulation, 2018, 85, 437-445.	1.8	21
46	Nitrogen Form Alters Hormonal Balance in Salt-treated Tomato (Solanum lycopersicum L.). Journal of Plant Growth Regulation, 2011, 30, 144-157.	2.8	20
47	Increasing plant vigour and tomato fruit yield under salinity by inducing plant adaptation at the earliest seedling stage. Environmental and Experimental Botany, 2007, 60, 77-85.	2.0	17
48	Alternate wetting and drying irrigation increases water and phosphorus use efficiency independent of substrate phosphorus status of vegetative rice plants. Plant Physiology and Biochemistry, 2020, 155, 914-926.	2.8	17
49	Alternate bearing in fruit trees: fruit presence induces polar auxin transport in citrus and olive stem and represses IAA release from the bud. Journal of Experimental Botany, 2021, 72, 2450-2462.	2.4	17
50	Hormonal responses of nodulated Medicago ciliaris lines differing in salt tolerance. Environmental and Experimental Botany, 2013, 86, 35-43.	2.0	16
51	The Arabidopsis PLAT domain protein1 promotes abiotic stress tolerance and growth in tobacco. Transgenic Research, 2015, 24, 651-663.	1.3	16
52	Phytohormone Signaling of the Resistance to Plum pox virus (PPV, Sharka Disease) Induced by Almond (Prunus dulcis (Miller) Webb) Grafting to Peach (P. persica L. Batsch). Viruses, 2018, 10, 238.	1.5	16
53	Alternation of wet and dry sides during partial rootzone drying irrigation enhances leaf ethylene evolution. Environmental and Experimental Botany, 2020, 176, 104095.	2.0	16
54	Effects of Fe deficiency on the protein profile of Brassica napus phloem sap. Proteomics, 2015, 15, 3835-3853.	1.3	15

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55	Multiple factors influence adventitious rooting in carnation (Dianthus caryophyllus L.) stem cuttings. Plant Growth Regulation, 2017, 81, 511-521.	1.8	15
56	The growth impairment of salinized fenugreek (Trigonella foenum-graecum L.) plants is associated to changes in the hormonal balance. Journal of Plant Physiology, 2019, 232, 311-319.	1.6	14
57	ROOTSTOCK-MEDIATED VARIATION IN TOMATO VEGETATIVE GROWTH UNDER DROUGHT, SALINITY AND SOIL IMPEDANCE STRESSES. Acta Horticulturae, 2015, , 141-146.	0.1	13
58	Tolerance to cadmium toxicity and phytoremediation potential of three Brassica rapa CAX1a TILLING mutants. Ecotoxicology and Environmental Safety, 2020, 189, 109961.	2.9	13
59	Earlyâ€stage sugar beet taproot development is characterized by three distinct physiological phases. Plant Direct, 2020, 4, e00221.	0.8	13
60	The Efficiency of Different Priming Agents for Improving Germination and Early Seedling Growth of Local Tunisian Barley under Salinity Stress. Plants, 2021, 10, 2264.	1.6	13
61	Contrasting Rootstock-Mediated Growth and Yield Responses in Salinized Pepper Plants (Capsicum) Tj ETQq1 1 0.784314 rgBT /Over Sciences, 2021, 22, 3297.	1.8	12
62	ROOTSTOCK-MEDIATED VARIATION IN TOMATO VEGETATIVE GROWTH UNDER LOW POTASSIUM OR PHOSPHOROUS SUPPLIES. Acta Horticulturae, 2015, , 147-152.	0.1	11
63	Comparative study of the toxic effect of salinity in different genotypes of tomato plants: Carboxylates metabolism. Scientia Horticulturae, 2017, 217, 173-178.	1.7	11
64	Irrigation frequency transiently alters whole plant gas exchange, water and hormone status, but irrigation volume determines cumulative growth in two herbaceous crops. Environmental and Experimental Botany, 2020, 176, 104101.	2.0	11
65	Salt tolerance of nitrogen fixation in Medicago ciliaris is related to nodule sucrose metabolism performance rather than antioxidant system. Symbiosis, 2010, 51, 187-195.	1.2	10
66	Genetic Analysis of Root-to-Shoot Signaling and Rootstock-Mediated Tolerance to Water Deficit in Tomato. Genes, 2021, 12, 10.	1.0	10
67	Increased branching independent of strigolactone in cytokinin oxidase 2-overexpressing tomato is mediated by reduced auxin transport. Molecular Horticulture, 2022, 2, .	2.3	10
68	Stomatal conductance and foliar phytohormones under water status changes in Annona leptopetala , a woody deciduous species in tropical dry forest. Flora: Morphology, Distribution, Functional Ecology of Plants, 2018, 242, 1-7.	0.6	8
69	Rootstocks for increasing yield stability and sustainability in vegetable crops. Acta Horticulturae, 2020, , 449-470.	0.1	8
70	Girdling changes root and shoot hormonal balance but does not alter drought-induced stomatal closure in soybean. Environmental and Experimental Botany, 2021, 192, 104657.	2.0	8
71	Integration of Phenotype and Hormone Data during Adventitious Rooting in Carnation (Dianthus) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	6
72	Effect of CAX1a TILLING mutations and calcium concentration on some primary metabolism processes in Brassica rapa plants. Journal of Plant Physiology, 2019, 237, 51-60.	1.6	6

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73	The Use of Red Shade Nets Improves Growth in Salinized Pepper (Capsicum annuum L.) Plants by Regulating Their Ion Homeostasis and Hormone Balance. Agronomy, 2020, 10, 1766.	1.3	6
74	Soil moisture heterogeneity regulates water use in Populus nigra L. by altering root and xylem sap phytohormone concentrations. Tree Physiology, 2020, 40, 762-773.	1.4	6
75	Tissue-Specific Metabolic Reprogramming during Wound-Induced Organ Formation in Tomato Hypocotyl Explants. International Journal of Molecular Sciences, 2021, 22, 10112.	1.8	6
76	Dynamic Hormone Gradients Regulate Wound-Induced de novo Organ Formation in Tomato Hypocotyl Explants. International Journal of Molecular Sciences, 2021, 22, 11843.	1.8	6
77	Improvement of the physiological response of barley plants to both Zinc deficiency and toxicity by the application of calcium silicate. Plant Science, 2022, 319, 111259.	1.7	6
78	Water relations of the tos1 tomato mutant at contrasting evaporative demand. Physiologia Plantarum, 2009, 137, 36-43.	2.6	5
79	The Use of Ecological Hydromulching Improves Growth in Escarole (Cichorium endivia L.) Plants Subjected to Drought Stress by Fine-Tuning Cytokinins and Abscisic Acid Balance. Agronomy, 2022, 12, 459.	1.3	5
80	Effects of Auxin (Indole-3-butyric Acid) on Adventitious Root Formation in Peach-Based Prunus Rootstocks. Plants, 2022, 11, 913.	1.6	5
81	HYDROGEN PEROXIDE AS AN INDUCER OF SEED GERMINATION: ITS EFFECTS ON ANTIOXIDATIVE METABOLISM AND PLANT HORMONE CONTENTS IN PEA SEEDLINGS. Acta Horticulturae, 2011, , 229-236.	0.1	4
82	Involvement of source-sink relationship and hormonal control in the response ofMedicago ciliaris â€" Sinorhizobium medicaesymbiosis to salt stress. Acta Biologica Hungarica, 2012, 63, 97-112.	0.7	4
83	Get Together: The Interaction between Melatonin and Salicylic Acid as a Strategy to Improve Plant Stress Tolerance. Agronomy, 2020, 10, 1486.	1.3	4
84	Î²-carotene and Bacillus thuringiensis insecticidal protein differentially modulate feeding behaviour, mortality and physiology of European corn borer (Ostrinia nubilalis). PLoS ONE, 2021, 16, e0246696.	1.1	4
85	HORMONAL SIGNALLING OF THE TRICHODERMA HARZIANUM-INDUCED RESISTANCE TO FUSARIUM OXYSPORUM AND GROWTH PROMOTION EFFECT IN MELON PLANTS. Acta Horticulturae, 2011, , 61-67.	0.1	3
86	BAPTISM OF TOMATO SEEDLINGS BY OSMOTIC STRESS ALTERS ABA RELATIONS AND IMPROVES TOLERANCE TO SALT AND WATER STRESS AFTER TRANSPLANT. Acta Horticulturae, 2011, , 327-334.	0.1	3
87	TELMA: Technology enhanced learning environment for Minimally Invasive Surgery. Procedia Computer Science, 2011, 3, 316-321.	1.2	3
88	CAX1a TILLING Mutations Modify the Hormonal Balance Controlling Growth and Ion Homeostasis in Brassica rapa Plants Subjected to Salinity. Agronomy, 2020, 10, 1699.	1.3	3
89	Response of carboxylate metabolism to zinc deficiency inLactuca sativaandBrassica oleraceaplants. Journal of Plant Nutrition and Soil Science, 2016, 179, 758-764.	1.1	2
90	Quantification of Cytokinin Levels and Responses in Abiotic Stresses. Methods in Molecular Biology, 2017, 1569, 101-111.	0.4	1

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91	Phenotypic, molecular and phytohormonal evidence of Plum pox virus silencing in susceptible apricot genotypes. Acta Horticulturae, 2018, , 227-230.	0.1	0
92	Phytohormonal analysis of the resistance to Plum pox virus induced by grafting from almond to peach. Acta Horticulturae, 2018, , 363-366.	0.1	0
93	Exploring Solanum rootstock biodiversity for improving nutrient use efficiency in tomato. Acta Horticulturae, 2021, , 201-208.	0.1	0