Alfonso Albacete

List of Publications by Citations

87 papers	2,972 citations	28 h-index	53 g-index
96 ext. papers	3,665 ext. citations	4.8 avg, IF	5.02 L-index

#	Paper	IF	Citations
87	Hormonal changes in relation to biomass partitioning and shoot growth impairment in salinized tomato (Solanum lycopersicum L.) plants. *Journal of Experimental Botany*, **2008**, 59, 4119-31	7	300
86	Hormonal changes during salinity-induced leaf senescence in tomato (Solanum lycopersicum L.). *Journal of Experimental Botany*, **2008**, 59, 3039-50	7	213
85	Root-synthesized cytokinins improve shoot growth and fruit yield in salinized tomato (Solanum lycopersicum L.) plants. *Journal of Experimental Botany*, **2011**, 62, 125-40	7	174
84	Rootstock-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, 928-38	8.4	157
83	Unravelling rootstock□scion interactions to improve food security. *Journal of Experimental Botany*, **2015**, 66, 2211-26	7	146
82	Interaction between hydrogen peroxide and plant hormones during germination and the early growth of pea seedlings. *Plant, Cell and Environment*, **2010**, 33, 981-94	8.4	141
81	Hormonal and metabolic regulation of source-sink relations under salinity and drought: from plant survival to crop yield stability. *Biotechnology Advances*, **2014**, 32, 12-30	17.8	124
80	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	9.8	106
79	Overexpression of the vascular brassinosteroid receptor BRL3 confers drought resistance without penalizing plant growth. *Nature Communications*, **2018**, 9, 4680	17.4	103
78	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	2.7	97
77	Root-targeted biotechnology to mediate hormonal signalling and improve crop stress tolerance. *Plant Cell Reports*, **2011**, 30, 807-23	5.1	85
76	The interaction with arbuscular mycorrhizal fungi or Trichoderma harzianum alters the shoot hormonal profile in melon plants. *Phytochemistry*, **2011**, 72, 223-9	4	71
75	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	5.9	68
74	Antioxidant enzyme activities and hormonal status in□response to Cd stress in the wetland halophyte Kosteletzkya virginica under saline conditions. *Physiologia Plantarum*, **2013**, 147, 352-68	4.6	62
73	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	7	61
72	Early steps of adventitious rooting: morphology, hormonal profiling and carbohydrate turnover in carnation stem cuttings. *Physiologia Plantarum*, **2014**, 150, 446-62	4.6	57
71	Ectopic overexpression of the cell wall invertase gene CIN1 leads to dehydration avoidance in tomato. *Journal of Experimental Botany*, **2015**, 66, 863-78	7	53

70	Physiological and molecular analysis of the interaction between aluminium toxicity and drought stress in common bean (Phaseolus vulgaris). *Journal of Experimental Botany*, **2012**, 63, 3109-25	7	50
69	Trichoderma harzianum and Glomus intraradices modify the hormone disruption induced by Fusarium oxysporum infection in melon plants. *Phytopathology*, **2010**, 100, 682-8	3.8	48
68	Hormonal and metabolic regulation of tomato fruit sink activity and yield under salinity. *Journal of Experimental Botany*, **2014**, 65, 6081-95	7	46
67	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, 125-136	2.7	46
66	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, 5531-42	7	45
65	The interaction between foliar GA 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	3.6	44
64	Improving agronomic water use efficiency in tomato by rootstock-mediated hormonal regulation of leaf biomass. *Plant Science*, **2016**, 251, 90-100	5.3	42
63	Response of nitrogen fixation in relation to nodule carbohydrate metabolism in Medicago ciliaris lines subjected to salt stress. *Journal of Plant Physiology*, **2009**, 166, 477-88	3.6	40
62	Selecting vegetative/generative/dwarfing rootstocks for improving fruit yield and quality in water stressed sweet peppers. *Scientia Horticulturae*, **2017**, 214, 9-17	4.1	36
61	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, 105-15	6	34
60	A rapid phytohormone and phytoalexin screening method for physiological phenotyping. *Molecular Plant*, **2014**, 7, 1053-1056	14.4	29
59	The Arabidopsis PLAT domain protein1 is critically involved in abiotic stress tolerance. *PLoS ONE*, **2014**, 9, e112946	3.7	27
58	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, 45-8	2.5	24
57	Response to nitrate/ammonium nutrition of tomato (Solanum lycopersicum L.) plants overexpressing a prokaryotic NH4(+)-dependent asparagine synthetase. *Journal of Plant Physiology*, **2013**, 170, 676-87	3.6	23
56	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	3.6	22
55	Phytohormone profile in Lactuca sativa and Brassica oleracea plants grown under Zn deficiency. *Phytochemistry*, **2016**, 130, 85-9	4	21
54	Deficiency in riboflavin biosynthesis affects tetrapyrrole biosynthesis in etiolated Arabidopsis tissue. *Plant Molecular Biology*, **2012**, 78, 77-93	4.6	21
53	Interaction between Humic Substances and Plant Hormones for Phosphorous Acquisition. *Agronomy*, **2020**, 10, 640	3.6	20

52	Nitrogen Form Alters Hormonal Balance in Salt-treated Tomato (Solanum lycopersicum L.). *Journal of Plant Growth Regulation*, **2011**, 30, 144-157	4.7	18
51	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	3.9	17
50	Role of thioproline on seed germination: interaction ROS-ABA and effects on antioxidative metabolism. *Plant Physiology and Biochemistry*, **2012**, 59, 30-6	5.4	17
49	Hormonal and Nutritional Features in Contrasting Rootstock-mediated Tomato Growth under Low-phosphorus Nutrition. *Frontiers in Plant Science*, **2017**, 8, 533	6.2	16
48	Enhanced Conjugation of Auxin by GH3 Enzymes Leads to Poor Adventitious Rooting in Carnation Stem Cuttings. *Frontiers in Plant Science*, **2018**, 9, 566	6.2	15
47	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	6.2	15
46	Impact of overexpression of 9-cis-epoxycarotenoid dioxygenase on growth and gene expression under salinity stress. *Plant Science*, **2020**, 295, 110268	5.3	15
45	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	5.9	14
44	Effects of Fe deficiency on the protein profile of Brassica napus phloem sap. *Proteomics*, **2015**, 15, 3835-53	4.8	13
43	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,	6.2	12
42	Hormonal responses of nodulated Medicago ciliaris lines differing in salt tolerance. *Environmental and Experimental Botany*, **2013**, 86, 35-43	5.9	12
41	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	5.3	11
40	Salt tolerance of nitrogen fixation in Medicago ciliaris is related to nodule sucrose metabolism performance rather than antioxidant system. *Symbiosis*, **2010**, 51, 187-195	3	10
39	Overproduction of ABA in rootstocks alleviates salinity stress in tomato shoots. *Plant, Cell and Environment*, **2021**, 44, 2966-2986	8.4	10
38	Alternation of wet and dry sides during partial rootzone drying irrigation enhances leaf ethylene evolution. *Environmental and Experimental Botany*, **2020**, 176, 104095	5.9	9
37	The Arabidopsis PLAT domain protein1 promotes abiotic stress tolerance and growth in tobacco. *Transgenic Research*, **2015**, 24, 651-63	3.3	8
36	ROOTSTOCK-MEDIATED VARIATION IN TOMATO VEGETATIVE GROWTH UNDER LOW POTASSIUM OR PHOSPHOROUS SUPPLIES. *Acta Horticulturae*, **2015**, 147-152	0.3	8
35	ROOTSTOCK-MEDIATED VARIATION IN TOMATO VEGETATIVE GROWTH UNDER DROUGHT, SALINITY AND SOIL IMPEDANCE STRESSES. *Acta Horticulturae*, **2015**, 141-146	0.3	8

34	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	3.6	8
33	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	3.2	7
32	Comparative study of the toxic effect of salinity in different genotypes of tomato plants: Carboxylates metabolism. *Scientia Horticulturae*, **2017**, 217, 173-178	4.1	6
31	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	5.9	6
30	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	5.4	6
29	The Efficiency of Different Priming Agents for Improving Germination and Early Seedling Growth of Local Tunisian Barley under Salinity Stress. *Plants*, **2021**, 10,	4.5	5
28	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	7	5
27	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	3.6	4
26	Multiple factors influence adventitious rooting in carnation (Dianthus caryophyllus L.) stem cuttings. *Plant Growth Regulation*, **2017**, 81, 511-521	3.2	4
25	Involvement of source-sink relationship and hormonal control in the response of Medicago ciliaris - Sinorhizobium medicae symbiosis to salt stress. *Acta Biologica Hungarica*, **2012**, 63, 97-112		4
24	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	0.3	4
23	Water relations of the tos1 tomato mutant at contrasting evaporative demand. *Physiologia Plantarum*, **2009**, 137, 36-43	4.6	4
22	Genetic Analysis of Root-to-Shoot Signaling and Rootstock-Mediated Tolerance to Water Deficit in Tomato. *Genes*, **2020**, 12,	4.2	4
21	Tolerance to cadmium toxicity and phytoremediation potential of three Brassica rapa CAX1a TILLING mutants. *Ecotoxicology and Environmental Safety*, **2020**, 189, 109961	7	4
20	Rootstocks for increasing yield stability and sustainability in vegetable crops. *Acta Horticulturae*, **2020**, 449-470	0.3	4
19	An auxin-mediated regulatory framework for wound-induced adventitious root formation in tomato shoot explants. *Plant, Cell and Environment*, **2021**, 44, 1642-1662	8.4	4
18	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	0.3	3
17	Contrasting Rootstock-Mediated Growth and Yield Responses in Salinized Pepper Plants (L.) Are Associated with Changes in the Hormonal Balance. *International Journal of Molecular Sciences*, **2021** , 22,	6.3	3

16	Soil moisture heterogeneity regulates water use in Populus nigra L. by altering root and xylem sap phytohormone concentrations. *Tree Physiology*, **2020**, 40, 762-773	4.2	2
15	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	1.9	2
14	HORMONAL SIGNALLING OF THE TRICHODERMA HARZIANUM-INDUCED RESISTANCE TO FUSARIUM OXYSPORUM AND GROWTH PROMOTION EFFECT IN MELON PLANTS. *Acta Horticulturae*, **2011**, 61-67	0.3	2
13	TELMA: Technology enhanced learning environment for Minimally Invasive Surgery. *Procedia Computer Science*, **2011**, 3, 316-321	1.6	2
12	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	3.6	2
11	Girdling changes root and shoot hormonal balance but does not alter drought-induced stomatal closure in soybean. *Environmental and Experimental Botany*, **2021**, 192, 104657	5.9	2
10	Quantification of Cytokinin Levels and Responses in Abiotic Stresses. *Methods in Molecular Biology*, **2017**, 1569, 101-111	1.4	1
9	CAX1a TILLING Mutations Modify the Hormonal Balance Controlling Growth and Ion Homeostasis in Brassica rapa Plants Subjected to Salinity. *Agronomy*, **2020**, 10, 1699	3.6	1
8	Early-stage sugar beet taproot development is characterized by three distinct physiological phases. *Plant Direct*, **2020**, 4, e00221	3.3	1
7	Response of carboxylate metabolism to zinc deficiency in Lactuca sativa and Brassica oleracea plants. *Journal of Plant Nutrition and Soil Science*, **2016**, 179, 758-764	2.3	1
6	-carotene and Bacillus thuringiensis insecticidal protein differentially modulate feeding behaviour, mortality and physiology of European corn borer (Ostrinia nubilalis). *PLoS ONE*, **2021**, 16, e0246696	3.7	0
5	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	3.6	0
4	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	5.3	0
3	Phenotypic, molecular and phytohormonal evidence of Plum pox virus silencing in susceptible apricot genotypes. *Acta Horticulturae*, **2018**, 227-230	0.3	
2	Phytohormonal analysis of the resistance to Plum pox virus induced by grafting from almond to peach. *Acta Horticulturae*, **2018**, 363-366	0.3	
1	Exploring Solanum rootstock biodiversity for improving nutrient use efficiency in tomato. *Acta Horticulturae*, **2021**, 201-208	0.3	