Adalberto Benavides-Mendoza

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89 papers	1,253 citations	16 h-index	33 g-index
113 ext. papers	1,640 ext. citations	2.3 avg, IF	4.99 L-index

#	Paper	IF	Citations
89	Foliar Application of Copper Nanoparticles Increases the Fruit Quality and the Content of Bioactive Compounds in Tomatoes. *Applied Sciences (Switzerland)*, **2018**, 8, 1020	2.6	94
88	Nanoparticles and Nanomaterials as Plant Biostimulants. *International Journal of Molecular Sciences* , **2019**, 20,	6.3	88
87	Use of Iodine to Biofortify and Promote Growth and Stress Tolerance in Crops. *Frontiers in Plant Science*, **2016**, 7, 1146	6.2	86
86	Application of nanoelements in plant nutrition and its impact in ecosystems. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2017**, 8, 013001	1.6	77
85	Effects of Chitosan-PVA and Cu Nanoparticles on the Growth and Antioxidant Capacity of Tomato under Saline Stress. *Molecules*, **2018**, 23,	4.8	66
84	Responses of Tomato Plants under Saline Stress to Foliar Application of Copper Nanoparticles. *Plants*, **2019**, 8,	4.5	64
83	The Application of Selenium and Copper Nanoparticles Modifies the Biochemical Responses of Tomato Plants under Stress by. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	64
82	Se Nanoparticles Induce Changes in the Growth, Antioxidant Responses, and Fruit Quality of Tomato Developed under NaCl Stress. *Molecules*, **2019**, 24,	4.8	53
81	Chitosan-PVA and Copper Nanoparticles Improve Growth and Overexpress the SOD and JA Genes in Tomato Plants under Salt Stress. *Agronomy*, **2018**, 8, 175	3.6	49
80	The application of copper nanoparticles and potassium silicate stimulate the tolerance to Clavibacter michiganensis in tomato plants. *Scientia Horticulturae*, **2019**, 245, 82-89	4.1	46
79	Selenium and Sulfur to Produce Allium Functional Crops. *Molecules*, **2017**, 22,	4.8	44
78	Cu Nanoparticles in Hydrogels of Chitosan-PVA Affects the Characteristics of Post-Harvest and Bioactive Compounds of Jalape� Pepper. *Molecules*, **2017**, 22,	4.8	38
77	From Elemental Sulfur to Hydrogen Sulfide in Agricultural Soils and Plants. *Molecules*, **2019**, 24,	4.8	33
76	Use of Chitosan-PVA Hydrogels with Copper Nanoparticles to Improve the Growth of Grafted Watermelon. *Molecules*, **2017**, 22,	4.8	27
75	Impact of Carbon Nanomaterials on the Antioxidant System of Tomato Seedlings. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	27
74	Biostimulation and toxicity: The magnitude of the impact of nanomaterials in microorganisms and plants. *Journal of Advanced Research*, **2021**, 31, 113-126	13	25
73	Dynamic modeling of cucumber crop growth and uptake of N, P and K under greenhouse conditions. *Scientia Horticulturae*, **2018**, 234, 250-260	4.1	16

72	Effect of Three Nanoparticles (Se, Si and Cu) on the Bioactive Compounds of Bell Pepper Fruits under Saline Stress. *Plants*, **2021**, 10,	4.5	16
71	Seed Priming with Carbon Nanomaterials to Modify the Germination, Growth, and Antioxidant Status of Tomato Seedlings. *Agronomy*, **2020**, 10, 639	3.6	15
70	Transcriptomics of Biostimulation of Plants Under Abiotic Stress. *Frontiers in Genetics*, **2021**, 12, 583888	4.5	15
69	Dynamic Modeling of Silicon Bioavailability, Uptake, Transport, and Accumulation: Applicability in Improving the Nutritional Quality of Tomato. *Frontiers in Plant Science*, **2018**, 9, 647	6.2	13
68	Ionic Selenium and Nanoselenium as Biofortifiers and Stimulators of Plant Metabolism. *Agronomy*, **2020**, 10, 1399	3.6	13
67	Form of Silica Improves Yield, Fruit Quality and Antioxidant Defense System of Tomato Plants under Salt Stress. *Agriculture (Switzerland)*, **2020**, 10, 367	3	13
66	Concentration of Salicylic Acid in Tomato Leaves after Foliar Aspersions of This Compound. *American Journal of Plant Sciences*, **2014**, 05, 2048-2056	0.5	12
65	Diurnal root zone temperature variations affect strawberry water relations, growth, and fruit quality. *Scientia Horticulturae*, **2016**, 203, 169-177	4.1	12
64	Impact of microalgae culture conditions over the capacity of copper nanoparticle biosynthesis. *Journal of Applied Phycology*, **2019**, 31, 2437-2447	3.2	11
63	Impact of Silicon Nanoparticles on the Antioxidant Compounds of Tomato Fruits Stressed by Arsenic. *Foods*, **2019**, 8,	4.9	11
62	Tolerance of Lisianthus to High Ammonium Levels in Rockwool Culture. *Journal of Plant Nutrition*, **2015**, 38, 73-82	2.3	10
61	Mineral Composition and Antioxidant Status of Tomato with Application of Selenium. *Agronomy*, **2018**, 8, 185	3.6	10
60	Cultivation of potato use of plastic mulch and row covers on soil temperature, growth, nutrient status, and yield. *Acta Agriculturae Scandinavica - Section B Soil and Plant Science*, **2015**, 65, 30-35	1.1	9
59	Use of the Interpolyelectrolyte Complexes of Poly(acrylic acid)-Chitosan as Inductors of Tolerance Against Pathogenic Fungi in Tomato (Lycopersicon esculentum Mill. var. Floradade). *Macromolecular Bioscience*, **2003**, 3, 566-570	5.5	9
58	Determination of Micronutrient Accumulation in Greenhouse Cucumber Crop Using a Modeling Approach. *Agronomy*, **2017**, 7, 79	3.6	8
57	Enhancement to Salt Stress Tolerance in Strawberry Plants by Iodine Products Application. *Agronomy*, **2021**, 11, 602	3.6	8
56	Lettuce Biofortification with Selenium in Chitosan-Polyacrylic Acid Complexes. *Agronomy*, **2018**, 8, 275	3.6	8
55	Silver, copper and copper oxide nanoparticles in the fight against human viruses: progress and perspectives. *Critical Reviews in Biotechnology*, **2021**, 1-19	9.4	8

54	Efecto de la aplicaci� de yodo sobre antioxidantes en pl�tulas de jitomate. *Revista Chapingo, Serie Horticultura*, **2016**, XXII, 133-143	1	7
53	The Use of Iodine, Selenium, and Silicon in Plant Nutrition for the Increase of Antioxidants in Fruits and Vegetables **2018**,		7
52	Importance of nanofertilizers in fruit nutrition **2020**, 497-508		6
51	Artificial Neural Network Modeling of Greenhouse Tomato Yield and Aerial Dry Matter. *Agriculture (Switzerland)*, **2020**, 10, 97	3	6
50	Development of tomatillo (Physalis ixocarpa Brot.) autotetraploids and their chromosome and phenotypic characterization. *Breeding Science*, **2011**, 61, 288-293	2	6
49	PROTECTIVE ACTION OF SODIUM SELENITE AGAINST FUSARIUM WILT IN TOMATO: TOTAL PROTEIN CONTENTS, LEVELS OF PHENOLIC COMPOUNDS AND CHANGES IN ANTIOXIDANT POTENTIAL. *Acta Horticulturae*, **2012**, 321-327	0.3	6
48	GIBBERELLINS AND CYTOKININS RELATED TO FRUIT BUD INITIATION IN APPLE. *Acta Horticulturae*, **2004**, 409-413	0.3	6
47	Nanoparticles in plants: morphophysiological, biochemical, and molecular responses **2020**, 289-322		6
46	Implications of physiological integration of stolon interconnected plants for salinity management in soilless strawberry production. *Scientia Horticulturae*, **2018**, 241, 124-130	4.1	6
45	Mineral composition and growth responses of tomato (Solanum lycopersicum L.) plants to irrigation with produced waters from the oil industry. *Journal of Plant Nutrition*, **2017**, 40, 1743-1754	2.3	5
44	Dynamic modeling of mineral contents in greenhouse tomato crop. *Agricultural Sciences*, **2014**, 05, 114-122	2.4	5
43	Effect of the Application of Produced Water on the Growth, the Concentration of Minerals and Toxic Compounds in Tomato under Greenhouse. *Journal of Environmental Protection*, **2013**, 04, 138-146	0.6	5
42	Soil: the great connector of our lives now and beyond COVID-19. *Soil*, **2020**, 6, 541-547	5.8	5
41	Sodium selenite treatment of vegetable seeds and seedlings and the effect on antioxidant status. *Emirates Journal of Food and Agriculture*, **2016**, 28, 589	1	5
40	Animal-based organic nutrition can substitute inorganic fertigation in soilless-grown grape tomato. *Acta Agriculturae Scandinavica - Section B Soil and Plant Science*, **2018**, 68, 77-85	1.1	4
39	Viabilidad de polen, densidad y tama� de estomas en autotetraploides y diploidesde Physalis ixocarpa. *Botanical Sciences*, **2014**, 91, 11	1.4	4
38	Calcium Ameliorates the Tolerance of Lisianthus [Eustoma grandiflorum (Raf.) Shinn.] to Alkalinity in Irrigation Water. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2014**, 49, 807-811	2.4	4
37	A cido benzoico: biosi ntesis, modificacio n y funcio n en plantas. *Revista Mexicana De Ciencias Agricolas*, **2015**, 6, 1667-1678	1.2	4

36	Development of a Rapid and Efficient Liquid Chromatography Method for Determination of Gibberellin A4 in Plant Tissue, with Solid Phase Extraction for Purification and Quantification. *American Journal of Plant Sciences*, **2014**, 05, 573-583	0.5	4
35	Organic acids combined with Fe-chelate improves ferric nutrition in tomato grown in calcisol soil. *Journal of Soil Science and Plant Nutrition*, **2020**, 20, 673-683	3.2	4
34	Agronomic Biofortification with Selenium in Tomato Crops (Solanum lycopersicon L. Mill). *Agriculture (Switzerland)*, **2020**, 10, 486	3	4
33	PRODUCED WATERS OF THE OIL INDUSTRY AS AN ALTERNATIVE WATER SOURCE FOR FOOD PRODUCTION. *Revista Internacional De Contaminacion Ambiental*, **2016**, 32, 463-475	1.2	4
32	Macro-nutrient uptake dynamics in greenhouse tomato crop. *Journal of Plant Nutrition*, **2017**, 40, 1908-1919	2.3	3
31	Comparison of Iodide, Iodate, and Iodine-Chitosan Complexes for the Biofortification of Lettuce. *Applied Sciences (Switzerland)*, **2020**, 10, 2378	2.6	3
30	Estimation of the water requirements of greenhouse tomato crop using multiple regression models. *Emirates Journal of Food and Agriculture*, **2014**, 26, 885	1	3
29	Study of morphological and histological changes in melon plants grown from seeds irradiated with UV-B. *Journal of Applied Horticulture*, **2014**, 16, 199-204	1.1	3
28	Effect of Graft and Nano ZnO on Nutraceutical and Mineral Content in Bell Pepper.. *Plants*, **2021**, 10,	4.5	3
27	The ecology of nanomaterials in agroecosystems **2020**, 313-355		2
26	Biomass and Accumulation of Potassium, Calcium, and Magnesium in Gladiolus as Affected by Heat Units and Corm Size. *Communications in Soil Science and Plant Analysis*, **2018**, 49, 344-357	1.5	2
25	PROHEXADIONE-CA REDUCES PLANT HEIGHT, IMPROVES YIELD AND FRUIT QUALITY ON SOLANACEOUS CROPS. *Acta Horticulturae*, **2012**, 457-461	0.3	2
24	Biofabricacio n de nanoparti culas de metales usando ce lulas vegetales o extractos de plantas. *Revista Mexicana De Ciencias Agricolas*, **2016**, 7, 1211-1224	1.2	2
23	Iodine Biofortification of Crops. *Concepts and Strategies in Plant Sciences*, **2019**, 79-113	0.5	2
22	Seed priming with ZnO nanoparticles promotes early growth and bioactive compounds of Moringa oleifera. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **2021**, 49, 12546	1.2	2
21	Animal-based organic nutrition induces comparable fruit quality to that of inorganic fertigation in soilless-grown grape tomato. *Acta Agriculturae Scandinavica - Section B Soil and Plant Science*, **2018**, 68, 515-523	1.1	1
20	Tolerance-Induction Techniques and Agronomical Practices to Mitigate Stress in Extensive Crops and Vegetables **2018**,		1
19	Use of chitosan-polyacrylic acid (CS-PAA) complex, chitosan-polyvinyl alcohol (CS-PVA) and chitosan hydrogels in greenhouses as a carrier for beneficial elements, nanoparticles, and microorganisms. *Acta Horticulturae*, **2020**, 1153-1160	0.3	1

18	Accumulation of silver nanoparticles and its effect on the antioxidant capacity in Allium cepa L.. *Phyton*, **2013**, 82, 91-97	2.1	1
17	Does the application of growth bioregulators improve the foliar concentration of nutrients, non-structural carbohydrates and yield in pecan?. *Ciencia E Agrotecnologia*,45,	1.6	1
16	Use of nanomaterials in plant nutrition **2022**, 453-482		1
15	Outcomes of foliar iodine application on growth, minerals and antioxidants in tomato plants under salt stress. *Folia Horticulturae*, **2022**,	2	1
14	Complejo PVA-quitos�-nCu mejora el rendimiento y la respuesta de defensa en tomate. *Revista Mexicana De Ciencias Agricolas*, **2021**, 12, 970-979	1.2	0
13	Anion Proportion in the Nutrient Solution Impacts the Growth and Nutrient Status of Anthurium (Anthurium andraeanum Linden ex. Andr�). *Hortscience: A Publication of the American Society for Hortcultural Science*, **2017**, 52, 1585-1592	2.4	
12	Residuality of exogenous salicylic acid and effect on catalase activity and total antioxidant capacity in tomato leaves. *African Journal of Agricultural Research Vol Pp*, **2015**, 10, 3893-3900	0.5	
11	Application of Nanosilicon and Nanochitosan to Diminish the Use of Pesticides and Synthetic Fertilizers in Crop Production **2021**, 1-27		
10	Nitrogen form and root division modifies the nutrimental and biomolecules concentration in blueberry (Vaccinium corymbosum L.). *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **2021**, 49, 11998	1.2	
9	Foliar application of zinc oxide nanoparticles and grafting improves the bell pepper (Capsicum annuum L.) productivity grown in NFT system. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **2021**, 49, 12327	1.2	
8	Distribuci� mineral de plantas de tomate irrigadas con agua contaminada con benceno, di�el y gasolina. *Ecosistemas Y Recursos Agropecuarios*, **2016**, 4, 21	1.1	
7	Response of potted anthurium (Anthurium andreanum Lind.) to the K+: Ca+2: Mg+2 balance in the nutrient solution. *Journal of Plant Nutrition*, **2019**, 42, 351-361	2.3	
6	Nanofertilizers as Tools for Plant Nutrition and Plant Biostimulation Under Adverse Environment **2021**, 387-415		
5	Influence of the hydrocarbons diesel, gasoline, and benzene on the growth and mineral and antioxidant concentrations of tomato plants. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **2021**, 49, 11849	1.2	
4	Biostimulation and Toxicity **2021**, 283-303		
3	Application of Nanosilicon and Nanochitosan to Diminish the Use of Pesticides and Synthetic Fertilizers in Crop Production **2021**, 2093-2119		
2	Multiple Linear and Polynomial Models for Studying the Dynamics of the Soil Solution. *Soil Systems*, **2022**, 6, 42	3.5	
1	Plant Biostimulation with Nanomaterials: A Physiological and Molecular Standpoint **2022**, 153-185		