# Adalberto Benavides-Mendoza

List of Publications by Year
in descending order



| 106 | 2,186 | 279487 | 253896 |
|---|---|---|---|
| papers | citations | 23 h-index | 43 g-index |

| 113 | 113 | 113 | 1910 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | Foliar Application of Copper Nanoparticles Increases the Fruit Quality and the Content of Bioactive Compounds in Tomatoes. Applied Sciences (Switzerland), 2018, 8, 1020. | 1.3 | 158 |
| 2 | Nanoparticles and Nanomaterials as Plant Biostimulants. International Journal of Molecular Sciences, 2019, 20, 162. | 1.8 | 143 |
| 3 | Responses of Tomato Plants under Saline Stress to Foliar Application of Copper Nanoparticles. Plants, 2019, 8, 151. | 1.6 | 125 |
| 4 | Use of Iodine to Biofortify and Promote Growth and Stress Tolerance in Crops. Frontiers in Plant Science, 2016, 7, 1146. | 1.7 | 123 |
| 5 | Application of nanoelements in plant nutrition and its impact in ecosystems. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 013001. | 0.7 | 110 |
| 6 | Effects of Chitosanâ€“PVA and Cu Nanoparticles on the Growth and Antioxidant Capacity of Tomato under Saline Stress. Molecules, 2018, 23, 178. | 1.7 | 102 |
| 7 | The Application of Selenium and Copper Nanoparticles Modifies the Biochemical Responses of Tomato Plants under Stress by Alternaria solani. International Journal of Molecular Sciences, 2019, 20, 1950. | 1.8 | 98 |
| 8 | Se Nanoparticles Induce Changes in the Growth, Antioxidant Responses, and Fruit Quality of Tomato Developed under NaCl Stress. Molecules, 2019, 24, 3030. | 1.7 | 90 |
| 9 | Chitosan-PVA and Copper Nanoparticles Improve Growth and Overexpress the SOD and JA Genes in Tomato Plants under Salt Stress. Agronomy, 2018, 8, 175. | 1.3 | 86 |
| 10 | From Elemental Sulfur to Hydrogen Sulfide in Agricultural Soils and Plants. Molecules, 2019, 24, 2282. | 1.7 | 71 |
| 11 | Biostimulation and toxicity: The magnitude of the impact of nanomaterials in microorganisms and plants. Journal of Advanced Research, 2021, 31, 113-126. | 4.4 | 69 |
| 12 | The application of copper nanoparticles and potassium silicate stimulate the tolerance to Clavibacter michiganensis in tomato plants. Scientia Horticulturae, 2019, 245, 82-89. | 1.7 | 67 |
| 13 | Selenium and Sulfur to Produce Allium Functional Crops. Molecules, 2017, 22, 558. | 1.7 | 64 |
| 14 | Cu Nanoparticles in Hydrogels of Chitosan-PVA Affects the Characteristics of Post-Harvest and Bioactive Compounds of JalapeÃ±o Pepper. Molecules, 2017, 22, 926. | 1.7 | 50 |
| 15 | Effect of Three Nanoparticles (Se, Si and Cu) on the Bioactive Compounds of Bell Pepper Fruits under Saline Stress. Plants, 2021, 10, 217. | 1.6 | 48 |
| 16 | Transcriptomics of Biostimulation of Plants Under Abiotic Stress. Frontiers in Genetics, 2021, 12, 583888. | 1.1 | 45 |
| 17 | Impact of Carbon Nanomaterials on the Antioxidant System of Tomato Seedlings. International Journal of Molecular Sciences, 2019, 20, 5858. | 1.8 | 44 |
| 18 | Form of Silica Improves Yield, Fruit Quality and Antioxidant Defense System of Tomato Plants under Salt Stress. Agriculture (Switzerland), 2020, 10, 367. | 1.4 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Use of Chitosan-PVA Hydrogels with Copper Nanoparticles to Improve the Growth of Grafted Watermelon. Molecules, 2017, 22, 1031. | 1.7 | 38 |
| 20 | Silver, copper and copper oxide nanoparticles in the fight against human viruses: progress and perspectives. Critical Reviews in Biotechnology, 2022, 42, 431-449. | 5.1 | 36 |
| 21 | Dynamic modeling of cucumber crop growth and uptake of N, P and K under greenhouse conditions. Scientia Horticulturae, 2018, 234, 250-260. | 1.7 | 29 |
| 22 | Seed Priming with Carbon Nanomaterials to Modify the Germination, Growth, and Antioxidant Status of Tomato Seedlings. Agronomy, 2020, 10, 639. | 1.3 | 29 |
| 23 | Ionic Selenium and Nanoselenium as Biofortifiers and Stimulators of Plant Metabolism. Agronomy, 2020, 10, 1399. | 1.3 | 26 |
| 24 | Impact of Silicon Nanoparticles on the Antioxidant Compounds of Tomato Fruits Stressed by Arsenic. Foods, 2019, 8, 612. | 1.9 | 25 |
| 25 | Enhancement to Salt Stress Tolerance in Strawberry Plants by Iodine Products Application. Agronomy, 2021, 11, 602. | 1.3 | 22 |
| 26 | Diurnal root zone temperature variations affect strawberry water relations, growth, and fruit quality. Scientia Horticulturae, 2016, 203, 169-177. | 1.7 | 21 |
| 27 | Mineral Composition and Antioxidant Status of Tomato with Application of Selenium. Agronomy, 2018, 8, 185. | 1.3 | 20 |
| 28 | Dynamic Modeling of Silicon Bioavailability, Uptake, Transport, and Accumulation: Applicability in Improving the Nutritional Quality of Tomato. Frontiers in Plant Science, 2018, 9, 647. | 1.7 | 19 |
| 29 | Cultivation of potato â€“ 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. | 0.3 | 17 |
| 30 | Impact of microalgae culture conditions over the capacity of copper nanoparticle biosynthesis. Journal of Applied Phycology, 2019, 31, 2437-2447. | 1.5 | 17 |
| 31 | Concentration of Salicylic Acid in Tomato Leaves after Foliar Aspersions of This Compound. American Journal of Plant Sciences, 2014, 05, 2048-2056. | 0.3 | 15 |
| 32 | Effect of Graft and Nano ZnO on Nutraceutical and Mineral Content in Bell Pepper. Plants, 2021, 10, 2793. | 1.6 | 14 |
| 33 | GIBBERELLINS AND CYTOKININS RELATED TO FRUIT BUD INITIATION IN APPLE. Acta Horticulturae, 2004, , 409-413. | 0.1 | 13 |
| 34 | Development of tomatillo (Physalis ixocarpa Brot.) autotetraploids and their chromosome and phenotypic characterization. Breeding Science, 2011, 61, 288-293. | 0.9 | 12 |
| 35 | Tolerance of Lisianthus to High Ammonium Levels in Rockwool Culture. Journal of Plant Nutrition, 2015, 38, 73-82. | 0.9 | 12 |
| 36 | Nanoparticles in plants: morphophysiological, biochemical, and molecular responses. , 2020, , 289-322. | | 12 |

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|---|---|---|---|
| 37 | Lettuce Biofortification with Selenium in Chitosan-Polyacrylic Acid Complexes. Agronomy, 2018, 8, 275. | 1.3 | 11 |
| 38 | Efecto de la aplicaciÃ³n de yodo sobre antioxidantes en plÃ¡ntulas de jitomate. Revista Chapingo, Serie Horticultura, 2016, XXII, 133-143. | 1.1 | 11 |
| 39 | Silicon Nanoparticles Improve the Shelf Life and Antioxidant Status of Lilium. Plants, 2021, 10, 2338. | 1.6 | 11 |
| 40 | 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. | 2.1 | 10 |
| 41 | Determination of Micronutrient Accumulation in Greenhouse Cucumber Crop Using a Modeling Approach. Agronomy, 2017, 7, 79. | 1.3 | 10 |
| 42 | Artificial Neural Network Modeling of Greenhouse Tomato Yield and Aerial Dry Matter. Agriculture (Switzerland), 2020, 10, 97. | 1.4 | 10 |
| 43 | Comparison of Iodide, Iodate, and Iodine-Chitosan Complexes for the Biofortification of Lettuce. Applied Sciences (Switzerland), 2020, 10, 2378. | 1.3 | 10 |
| 44 | 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. | 0.1 | 9 |
| 45 | The Use of Iodine, Selenium, and Silicon in Plant Nutrition for the Increase of Antioxidants in Fruits and Vegetables. , 2018, , . | | 9 |
| 46 | Agronomic Biofortification with Selenium in Tomato Crops (Solanum lycopersicon L. Mill). Agriculture (Switzerland), 2020, 10, 486. | 1.4 | 9 |
| 47 | Seed priming with ZnO nanoparticles promotes early growth and bioactive compounds of Moringa oleifera. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12546. | 0.5 | 9 |
| 48 | Macro-nutrient uptake dynamics in greenhouse tomato crop. Journal of Plant Nutrition, 2017, 40, 1908-1919. | 0.9 | 8 |
| 49 | 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. | 1.7 | 8 |
| 50 | 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. | 0.3 | 8 |
| 51 | Outcomes of foliar iodine application on growth, minerals and antioxidants in tomato plants under salt stress. Folia Horticulturae, 2022, 34, 27-37. | 0.6 | 8 |
| 52 | Estimation of the water requirements of greenhouse tomato crop using multiple regression models. Emirates Journal of Food and Agriculture, 2014, 26, 885. | 1.0 | 7 |
| 53 | Implications of physiological integration of stolon interconnected plants for salinity management in soilless strawberry production. Scientia Horticulturae, 2018, 241, 124-130. | 1.7 | 7 |
| 54 | 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. | 0.3 | 7 |

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| 55 | Dynamic modeling of mineral contents in greenhouse tomato crop. Agricultural Sciences, 2014, 05, 114-123. | 0.2 | 7 |
| 56 | Soil: the great connector of our lives now and beyond COVID-19. Soil, 2020, 6, 541-547. | 2.2 | 7 |
| 57 | 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. | 0.3 | 6 |
| 58 | Importance of nanofertilizers in fruit nutrition. , 2020, , 497-508. | | 6 |
| 59 | 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. | 0.5 | 6 |
| 60 | Sodium selenite treatment of vegetable seeds and seedlings and the effect on antioxidant status. Emirates Journal of Food and Agriculture, 2016, 28, 589. | 1.0 | 6 |
| 61 | PRODUCED WATERS OF THE OIL INDUSTRY AS AN ALTERNATIVE WATER SOURCE FOR FOOD PRODUCTION. Revista Internacional De Contaminacion Ambiental, 2016, 32, 463-475. | 0.1 | 5 |
| 62 | 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. | 0.9 | 5 |
| 63 | Iodine Biofortification of Crops. Concepts and Strategies in Plant Sciences, 2019, , 79-113. | 0.6 | 5 |
| 64 | Viabilidad de polen, densidad y tamaÃ±o de estomas en autotetraploides y diploidesde Physalis ixocarpa. Botanical Sciences, 2014, 91, 11. | 0.3 | 5 |
| 65 | Aìcido benzoico: biosiìntesis, modificacioìn y funcioìn en plantas. Revista Mexicana De Ciencias Agricolas, 2015, 6, 1667-1678. | 0.0 | 5 |
| 66 | Biofabricacioìn de nanopartiìculas de metales usando ceìlulas vegetales o extractos de plantas. Revista Mexicana De Ciencias Agricolas, 2016, 7, 1211-1224. | 0.0 | 4 |
| 67 | Study of morphological and histological changes in melon plants grown from seeds irradiated with UV-B. Journal of Applied Horticulture, 2014, 16, 199-204. | 0.3 | 4 |
| 68 | IDENTIFICATION OF GIBBERELLINS IN SEEDS OF A GOLDEN DELICIOUS APPLE MUTANT. Acta Horticulturae, 2004, , 201-206. | 0.1 | 4 |
| 69 | The ecology of nanomaterials in agroecosystems. , 2020, , 313-355. | | 3 |
| 70 | Commercial and nutraceutical quality of grafted melon cultivated under hydric stress. Zahradnictvi (Prague, Czech Republic: 1992), 2020, 47, 139-149. | 0.3 | 3 |
| 71 | Accumulation of silver nanoparticles and its effect on the antioxidant capacity in Allium cepa L.. Phyton, 2013, 82, 91-97. | 0.4 | 3 |
| 72 | PROHEXADIONE-CA REDUCES PLANT HEIGHT, IMPROVES YIELD AND FRUIT QUALITY ON SOLANACEOUS CROPS. Acta Horticulturae, 2012, , 457-461. | 0.1 | 2 |

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|---|---|---|---|
| 73 | SIGNIFICANCE OF HORMONES ON FLOWER BUD INITIATION AND FRUIT QUALITY IN APPLE: OUR EXPERTISE. Acta Horticulturae, 2014, , 73-77. | 0.1 | 2 |
| 74 | 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. | 0.6 | 2 |
| 75 | 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. | 0.3 | 2 |
| 76 | Foliar application of zinc oxide nanoparticles and grafting improves the bell pepper (Capsicum annuum) Tj ETQq0 0 0 rgBT /Overlock 10 12327. | 0.5 | 2 |
| 77 | Complejo PVA-quitosÃ¡n-nCu mejora el rendimiento y la respuesta de defensa en tomate. Revista Mexicana De Ciencias Agricolas, 2021, 12, 970-979. | 0.0 | 2 |
| 78 | Application of Nanosilicon and Nanochitosan to Diminish the Use of Pesticides and Synthetic Fertilizers in Crop Production. , 2021, , 2093-2119. | | 2 |
| 79 | Respuesta ambiental de poblaciones nativas de maÃz del sureste de Coahuila, MÃ©xico. Nova Scientia, 2019, 11, 108-125. | 0.0 | 2 |
| 80 | Morfologìa y anatomìa foliar de Dasylirion cedrosanum en diferentes etapas de desarrollo. Revista Mexicana De Ciencias Agricolas, 2016, 7, 1679-1687. | 0.0 | 2 |
| 81 | Rendimiento agronÃ³mico del jitomate suplementado con microelementos Fe, Cu y Zn. Revista Mexicana De Ciencias Agricolas, 2019, 10, 1379-1391. | 0.0 | 2 |
| 82 | An experimental validation of NICOLET B3 mathematical model for lettuce growth in the southeast region of Coahuila México by dynamic simulation. , 2010, , . | | 1 |
| 83 | Tolerance-Induction Techniques and Agronomical Practices to Mitigate Stress in Extensive Crops and Vegetables. , 2018, , . | | 1 |
| 84 | Nanofertilizers as Tools for Plant Nutrition and Plant Biostimulation Under Adverse Environment. , 2021, , 387-415. | | 1 |
| 85 | Does the application of growth bioregulators improve the foliar concentration of nutrients, non-structural carbohydrates and yield in pecan?. Ciencia E Agrotecnologia, 0, 45, . | 1.5 | 1 |
| 86 | Relation between soil solution composition and petiole cellular extract of crops in western Mexico. Terra Latinoamericana, 0, 39, . | 0.3 | 1 |
| 87 | Use of nanomaterials in plant nutrition. , 2022, , 453-482. | | 1 |
| 88 | INFLUENCIA DE PROMOTORES DE OXIDACIÃ“N CONTROLADA EN HORTALIZAS Y SU RELACIÃ“N CON ANTIOXIDANTES. Revista Chapingo, Serie Horticultura, 2006, XII, 189-195. | 1.1 | 1 |
| 89 | Response of tomato plants to diesel fuel, gasoline and benzene. Terra Latinoamericana, 2019, 37, 425. | 0.3 | 1 |
| 90 | 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. | 0.1 | 1 |

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| 91 | 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. | 0.2 | 0 |
| 92 | DistribuciÃ³n mineral de plantas de tomate irrigadas con agua contaminada con benceno, diÃ©sel y gasolina. Ecosistemas Y Recursos Agropecuarios, 2016, 4, 21. | 0.0 | 0 |
| 93 | Anion Proportion in the Nutrient Solution Impacts the Growth and Nutrient Status of Anthurium (Anthurium andraeanum Linden ex. AndrÃ©.). Hortscience: A Publication of the American Society for Hortcultural Science, 2017, 52, 1585-1592. | 0.5 | 0 |
| 94 | 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. | 0.9 | 0 |
| 95 | 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. | 0.5 | 0 |
| 96 | 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. | 0.5 | 0 |
| 97 | ComparaciÃ³n de enzimas y compuesto fenÃ³licos, en tres especies de cÃtricos infectadas por Candidatus Liberibacter asiaticus. Revista Mexicana De Fitopatologia, 2017, 35, . | 0.2 | 0 |
| 98 | Determinacioìn de giberelina A4 y trans zeatina riboìsido en diferentes oìrganos de Dasylirion cedrosanum. Revista Mexicana De Ciencias Agricolas, 2016, 7, 2063-2069. | 0.0 | 0 |
| 99 | Irradiacioìn de semillas de tomate con UV-B y UV-C: impacto sobre germinacioìn, vigor y crecimiento. Revista Mexicana De Ciencias Agricolas, 2017, 8, 105-118. | 0.0 | 0 |
| 100 | BiofortificaciÃ³n con yodo en plantas para consumo humano. Revista Mexicana De Ciencias Agricolas, 2016, 7, 2025-2036. | 0.0 | 0 |
| 101 | Estimacioìn de la aptitud combinatoria en poblaciones de tomate de caìscara. Revista Mexicana De Ciencias Agricolas, 2015, 6, 437-451. | 0.0 | 0 |
| 102 | Anaìlisis de crecimiento del cultivo de tomate en invernadero. Revista Mexicana De Ciencias Agricolas, 2015, 6, 943-954. | 0.0 | 0 |
| 103 | Impacto de la salinidad y la temperatura diurna sobre la fluorescencia de la clorofila en fresa. Revista Mexicana De Ciencias Agricolas, 2018, 5, 157-162. | 0.0 | 0 |
| 104 | Efecto de un fulvato de hierro sobre calidad y producciÃ³n de frutos de chile â€˜Serranoâ€™. Revista Mexicana De Ciencias Agricolas, 2019, 10, 1367-1378. | 0.0 | 0 |
| 105 | Application of Nanosilicon and Nanochitosan to Diminish the Use of Pesticides and Synthetic Fertilizers in Crop Production. , 2021, , 1-27. | | 0 |
| 106 | Multiple Linear and Polynomial Models for Studying the Dynamics of the Soil Solution. Soil Systems, 2022, 6, 42. | 1.0 | 0 |