

# Emilio Nicolás

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

3,474  
citations

94269

37  
h-index

149479

56  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using high resolution UAV thermal imagery to assess the variability in the water status of five fruit tree species within a commercial orchard. <i>Precision Agriculture</i> , 2013, 14, 660-678.	3.1	255
2	Involvement of cytosolic ascorbate peroxidase and Cu/Zn-superoxide dismutase for improved tolerance against drought stress. <i>Journal of Experimental Botany</i> , 2011, 62, 2599-2613.	2.4	227
3	Isotopes reveal contrasting water use strategies among coexisting plant species in a Mediterranean ecosystem. <i>New Phytologist</i> , 2012, 196, 489-496.	3.5	226
4	High-Temperature Preconditioning and Thermal Shock Imposition Affects Water Relations, Gas Exchange and Root Hydraulic Conductivity in Tomato. <i>Biologia Plantarum</i> , 2003, 46, 203-208.	1.9	166
5	Seasonal evolution of diffusional limitations and photosynthetic capacity in olive under drought. <i>Plant, Cell and Environment</i> , 2007, 30, 922-933.	2.8	107
6	Combined effects of reduced irrigation and water quality on the soil microbial community of a citrus orchard under semi-arid conditions. <i>Soil Biology and Biochemistry</i> , 2017, 104, 226-237.	4.2	94
7	Effects of saline reclaimed waters and deficit irrigation on Citrus physiology assessed by UAV remote sensing. <i>Agricultural Water Management</i> , 2017, 183, 60-69.	2.4	76
8	Long-term physiological and agronomic responses of mandarin trees to irrigation with saline reclaimed water. <i>Agricultural Water Management</i> , 2016, 166, 1-8.	2.4	74
9	Effect of Regulated Deficit Irrigation and Crop Load on the Antioxidant Compounds of Peaches. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 3601-3608.	2.4	68
10	Transpiration, photosynthetic responses, tissue water relations and dry mass partitioning in <i>Callistemon</i> plants during drought conditions. <i>Scientia Horticulturae</i> , 2011, 129, 306-312.	1.7	68
11	Growth Pattern and Phenological Stages of Early-maturing Peach Trees Under a Mediterranean Climate. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2008, 43, 1813-1818.	0.5	68
12	Modelling canopy conductance and transpiration of fruit trees in Mediterranean areas: A simplified approach. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 93-103.	1.9	66
13	Stand structure modulates the long-term vulnerability of <i>Pinus halepensis</i> to climatic drought in a semiarid Mediterranean ecosystem. <i>Plant, Cell and Environment</i> , 2012, 35, 1026-1039.	2.8	62
14	Interpreting trunk diameter changes in young lemon trees under deficit irrigation. <i>Plant Science</i> , 2004, 167, 275-280.	1.7	59
15	Leaf $\delta^{18}\text{O}$ of remaining trees is affected by thinning intensity in a semiarid pine forest. <i>Plant, Cell and Environment</i> , 2011, 34, 1009-1019.	2.8	58
16	Evaluating the performance of xanthophyll, chlorophyll and structure-sensitive spectral indices to detect water stress in five fruit tree species. <i>Precision Agriculture</i> , 2018, 19, 178-193.	3.1	58
17	Environmental and stomatal control of transpiration, canopy conductance and decoupling coefficient in young lemon trees under shading net. <i>Environmental and Experimental Botany</i> , 2008, 63, 200-206.	2.0	56
18	Transient soil salinity under the combined effect of reclaimed water and regulated deficit drip irrigation of Mandarin trees. <i>Agricultural Water Management</i> , 2013, 120, 23-29.	2.4	56

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19	Evaluation of sap flow and trunk diameter sensors for irrigation scheduling in early maturing peach trees. <i>Tree Physiology</i> , 2007, 27, 1753-1759.	1.4	54
20	Pomegranate trees performance under sustained and regulated deficit irrigation. <i>Irrigation Science</i> , 2013, 31, 959-970.	1.3	53
21	Photosynthesis and growth reduction with warming are driven by nonstomatal limitations in a Mediterranean semi-arid shrub. <i>Ecology and Evolution</i> , 2016, 6, 2725-2738.	0.8	53
22	Physiological and agronomic mandarin trees performance under saline reclaimed water combined with regulated deficit irrigation. <i>Agricultural Water Management</i> , 2014, 146, 228-237.	2.4	51
23	The effect of short-term flooding on the sap flow, gas exchange and hydraulic conductivity of young apricot trees. <i>Trees - Structure and Function</i> , 2005, 19, 51-57.	0.9	48
24	Expression Analysis of Aquaporins from Desert Truffle Mycorrhizal Symbiosis Reveals a Fine-Tuned Regulation Under Drought. <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 1068-1078.	1.4	48
25	Poor plant performance under simulated climate change is linked to mycorrhizal responses in a semi-arid shrubland. <i>Journal of Ecology</i> , 2018, 106, 960-976.	1.9	47
26	Sap flow and trunk diameter fluctuations of young lemon trees under water stress and rewatering. <i>Environmental and Experimental Botany</i> , 2005, 54, 155-162.	2.0	44
27	Sap flow, gas exchange, and hydraulic conductance of young apricot trees growing under a shading net and different water supplies. <i>Journal of Plant Physiology</i> , 2005, 162, 439-447.	1.6	44
28	Preliminary assessment of the feasibility of using maximum daily trunk shrinkage for irrigation scheduling in lemon trees. <i>Agricultural Water Management</i> , 2007, 89, 167-171.	2.4	44
29	Arbuscular mycorrhizal symbiosis alleviates detrimental effects of saline reclaimed water in lettuce plants. <i>Mycorrhiza</i> , 2014, 24, 339-348.	1.3	43
30	Evaluation of transpiration in adult apricot trees from sap flow measurements. <i>Agricultural Water Management</i> , 2005, 72, 131-145.	2.4	42
31	Combined effects of irrigation, crop load and fruit position on size, color and firmness of fruits in an extra-early cultivar of peach. <i>Scientia Horticulturae</i> , 2012, 142, 128-135.	1.7	42
32	Using midday stem water potential for scheduling deficit irrigation in mid-late maturing peach trees under Mediterranean conditions. <i>Irrigation Science</i> , 2016, 34, 161-173.	1.3	42
33	Response of young 'Star Ruby'™ grapefruit trees to regulated deficit irrigation with saline reclaimed water. <i>Agricultural Water Management</i> , 2015, 158, 51-60.	2.4	40
34	Altered leaf elemental composition with climate change is linked to reductions in photosynthesis, growth and survival in a semi-arid shrubland. <i>Journal of Ecology</i> , 2020, 108, 47-60.	1.9	40
35	Improving water-use efficiency of young lemon trees by shading with aluminised-plastic nets. <i>Agricultural Water Management</i> , 2006, 82, 387-398.	2.4	39
36	Usefulness of trunk diameter variations as continuous water stress indicators of pomegranate ( <i>Punica granatum</i> ) trees. <i>Agricultural Water Management</i> , 2011, 98, 1462-1468.	2.4	39

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37	Determination of Crop Water Stress Index by Infrared Thermometry in Grapefruit Trees Irrigated with Saline Reclaimed Water Combined with Deficit Irrigation. <i>Remote Sensing</i> , 2019, 11, 757.	1.8	38
38	Physiological parameters of desert truffle mycorrhizal <i>Helianthemum almeriense</i> plants cultivated in orchards under water deficit conditions. <i>Symbiosis</i> , 2010, 52, 133-139.	1.2	37
39	The viability of irrigating mandarin trees with saline reclaimed water in a semi-arid Mediterranean region: a preliminary assessment. <i>Irrigation Science</i> , 2013, 31, 759-768.	1.3	37
40	Water relations of field grown Pomegranate trees ( <i>Punica granatum</i> ) under different drip irrigation regimes. <i>Agricultural Water Management</i> , 2011, 98, 691-696.	2.4	36
41	QualiTree, a virtual fruit tree to study the management of fruit quality. II. Parameterisation for peach, analysis of growth-related processes and agronomic scenarios. <i>Trees - Structure and Function</i> , 2011, 25, 785-799.	0.9	36
42	Effects of irrigation and fruit position on size, colour, firmness and sugar contents of fruits in a mid-late maturing peach cultivar. <i>Scientia Horticulturae</i> , 2013, 164, 340-347.	1.7	35
43	Ecological and functional adaptations to water management in a semiarid agroecosystem: a soil metaproteomics approach. <i>Scientific Reports</i> , 2017, 7, 10221.	1.6	34
44	Estimation of hydraulic conductance within field-grown apricot using sap flow measurements. <i>Plant and Soil</i> , 2003, 251, 125-135.	1.8	32
45	Transpiration and canopy conductance in young apricot ( <i>Prunus armenica</i> L.) trees subjected to different PAR levels and water stress. <i>Agricultural Water Management</i> , 2005, 77, 323-333.	2.4	32
46	Water status indicators of lemon trees in response to flooding and recovery. <i>Biologia Plantarum</i> , 2007, 51, 292-296.	1.9	30
47	Compensation heat-pulse measurements of sap flow for estimating transpiration in young lemon trees. <i>Biologia Plantarum</i> , 2005, 49, 527-532.	1.9	29
48	Assessment of the viability of using saline reclaimed water in grapefruit in medium to long term. <i>Spanish Journal of Agricultural Research</i> , 2014, 12, 1137.	0.3	29
49	Response of superoxide dismutase isoenzymes in tomato plants ( <i>Lycopersicon esculentum</i> ) during thermo-acclimation of the photosynthetic apparatus. <i>Physiologia Plantarum</i> , 2007, 131, 367-377.	2.6	28
50	Effectiveness and persistence of arbuscular mycorrhizal fungi on the physiology, nutrient uptake and yield of Crimson seedless grapevine. <i>Journal of Agricultural Science</i> , 2015, 153, 1084-1096.	0.6	28
51	Assessment of the water stress effects on peach fruit quality and size using a fruit tree model, QualiTree. <i>Agricultural Water Management</i> , 2013, 128, 1-12.	2.4	27
52	Comparing the impacts of drip irrigation by freshwater and reclaimed wastewater on the soil microbial community of two citrus species. <i>Agricultural Water Management</i> , 2018, 203, 53-62.	2.4	27
53	Effect of deficit irrigation and reclaimed water on yield and quality of grapefruits at harvest and postharvest. <i>LWT - Food Science and Technology</i> , 2017, 85, 405-411.	2.5	24
54	Transformation of plum plants with a cytosolic ascorbate peroxidase transgene leads to enhanced water stress tolerance. <i>Annals of Botany</i> , 2016, 117, 1121-1131.	1.4	21

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55	Medium-term effects of saline reclaimed water and regulated deficit irrigation on fruit quality of citrus. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 1350-1357.	1.7	20
56	Combined ozonation and solarization for the removal of pesticides from soil: Effects on soil microbial communities. <i>Science of the Total Environment</i> , 2021, 758, 143950.	3.9	18
57	Effects of regulated deficit irrigation on physiology, yield and fruit quality in apricot trees under Mediterranean conditions. <i>Spanish Journal of Agricultural Research</i> , 2016, 14, e1205.	0.3	18
58	Physical, chemical and microbiological effects of suspended shade cloth covers on stored water for irrigation. <i>Agricultural Water Management</i> , 2013, 118, 70-78.	2.4	17
59	Economic feasibility of implementing regulated deficit irrigation with reclaimed water in a grapefruit orchard. <i>Agricultural Water Management</i> , 2016, 178, 119-125.	2.4	17
60	The effects of ozone treatments on the agro-physiological parameters of tomato plants and the soil microbial community. <i>Science of the Total Environment</i> , 2022, 812, 151429.	3.9	17
61	Does dry matter partitioning to fruit in early- and late-ripening peach ( <i>Prunus persica</i> ) cultivars confirm the branch autonomy theory?. <i>Journal of Horticultural Science and Biotechnology</i> , 2006, 81, 444-448.	0.9	16
62	Reference values of maximum daily trunk shrinkage for irrigation scheduling in mid-late maturing peach trees. <i>Agricultural Water Management</i> , 2016, 171, 31-39.	2.4	16
63	DETERMINATION OF 15N STABLE ISOTOPE NATURAL ABUNDANCES FOR ASSESSING THE USE OF SALINE RECLAIMED WATER IN GRAPEFRUIT. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 2525-2530.	0.2	14
64	Combined effects of water stress and fruit thinning on fruit and vegetative growth of a very early-maturing peach cultivar: assessment by means of a fruit tree model, QualiTree. <i>Irrigation Science</i> , 2013, 31, 1039-1051.	1.3	13
65	Plant and soil microbial community responses to different water management strategies in an almond crop. <i>Science of the Total Environment</i> , 2021, 778, 146148.	3.9	13
66	Cytosolic ascorbate peroxidase and Cu, Zn-superoxide dismutase improve seed germination, plant growth, nutrient uptake and drought tolerance in tobacco. <i>Theoretical and Experimental Plant Physiology</i> , 2015, 27, 215-226.	1.1	12
67	Maximum daily trunk shrinkage for estimating water needs and scheduling regulated deficit irrigation in peach trees. <i>Irrigation Science</i> , 2017, 35, 69-82.	1.3	12
68	Deficit irrigation with reclaimed water in a citrus orchard. Energy and greenhouse-gas emissions analysis. <i>Agricultural Systems</i> , 2018, 159, 93-102.	3.2	12
69	Solarization-based pesticide degradation results in decreased activity and biomass of the soil microbial community. <i>Geoderma</i> , 2019, 354, 113893.	2.3	12
70	Influence of irrigation with saline reclaimed water on young grapefruits. <i>Desalination and Water Treatment</i> , 2013, 51, 2488-2496.	1.0	11
71	Differential heat-induced changes in the CO <sub>2</sub> assimilation rate and electron transport in tomato ( <i>Lycopersicon esculentum</i> Mill.). <i>Journal of Horticultural Science and Biotechnology</i> , 2010, 85, 137-143.	0.9	8
72	Annual Water Status, Development, and Flowering Patterns for <i>Rosmarinus officinalis</i> Plants Under Different Irrigation Conditions. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2008, 43, 1580-1585.	0.5	7

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73	Effect of <i>Pisolithus tinctorius</i> on Physiological and Hormonal Traits in <i>Cistus</i> Plants to Water Deficit: Relationships among Water Status, Photosynthetic Activity and Plant Quality. <i>Plants</i> , 2021, 10, 976.	1.6	3