

# Maria Fernanda Ortuño

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

3,766  
citations

159585

30  
h-index

128289

60  
g-index

60  
all docs

60  
docs citations

60  
times ranked

4116  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Responses to Salt Stress: Adaptive Mechanisms. <i>Agronomy</i> , 2017, 7, 18.	3.0	872
2	Deficit irrigation in grapevine improves water-use efficiency while controlling vigour and production quality. <i>Annals of Applied Biology</i> , 2007, 150, 237-252.	2.5	396
3	Deficit Irrigation as a Strategy to Save Water: Physiology and Potential Application to Horticulture. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 1421-1434.	8.5	313
4	Could trunk diameter sensors be used in woody crops for irrigation scheduling? A review of current knowledge and future perspectives. <i>Agricultural Water Management</i> , 2010, 97, 1-11.	5.6	156
5	Effects of NaCl salinity and water stress on growth and leaf water relations of plants. <i>Environmental and Experimental Botany</i> , 2005, 53, 113-123.	4.2	139
6	Mesophyll conductance to CO <sub>2</sub> in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2007, 175, 501-511.	7.3	138
7	Grapevine varieties exhibiting differences in stomatal response to water deficit. <i>Functional Plant Biology</i> , 2012, 39, 179.	2.1	118
8	Comparative growth and water relations of <i>Cistus albidus</i> and <i>Cistus monspeliensis</i> plants during water deficit conditions and recovery. <i>Plant Science</i> , 2002, 162, 107-113.	3.6	117
9	Stem and leaf water potentials, gas exchange, sap flow, and trunk diameter fluctuations for detecting water stress in lemon trees. <i>Trees - Structure and Function</i> , 2006, 20, 1-8.	1.9	106
10	Relationships Between Climatic Variables and Sap Flow, Stem Water Potential and Maximum Daily Trunk Shrinkage in Lemon Trees. <i>Plant and Soil</i> , 2006, 279, 229-242.	3.7	76
11	Plant water relations of leaves of pomegranate trees under different irrigation conditions. <i>Environmental and Experimental Botany</i> , 2012, 77, 19-24.	4.2	64
12	Interpreting trunk diameter changes in young lemon trees under deficit irrigation. <i>Plant Science</i> , 2004, 167, 275-280.	3.6	59
13	Analysis of carbohydrates in <i>Lupinus albus</i> stems on imposition of water deficit, using porous graphitic carbon liquid chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1187, 111-118.	3.7	58
14	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.	4.2	56
15	Spatial root distribution of apricot trees in different soil tillage practices. <i>Plant and Soil</i> , 2005, 272, 211-221.	3.7	55
16	Stem water potential estimation of drip-irrigated early-maturing peach trees under Mediterranean conditions. <i>Computers and Electronics in Agriculture</i> , 2015, 114, 7-13.	7.7	55
17	Maximum daily trunk shrinkage and stem water potential reference equations for irrigation scheduling of lemon trees. <i>Irrigation Science</i> , 2009, 27, 121-127.	2.8	50
18	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.	4.2	44

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19	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.	5.6	44
20	New approach for olive trees irrigation scheduling using trunk diameter sensors. <i>Agricultural Water Management</i> , 2010, 97, 1822-1828.	5.6	43
21	Evaluation of transpiration in adult apricot trees from sap flow measurements. <i>Agricultural Water Management</i> , 2005, 72, 131-145.	5.6	42
22	Water relations, nutrient content and developmental responses of <i>Euonymus</i> plants irrigated with water of different degrees of salinity and quality. <i>Journal of Plant Research</i> , 2013, 126, 567-576.	2.4	40
23	Improving water-use efficiency of young lemon trees by shading with aluminised-plastic nets. <i>Agricultural Water Management</i> , 2006, 82, 387-398.	5.6	39
24	Comparison of continuously recorded plant-based water stress indicators for young lemon trees. <i>Plant and Soil</i> , 2004, 267, 263-270.	3.7	37
25	Acclimation to short-term low temperatures in two <i>Eucalyptus globulus</i> clones with contrasting drought resistance. <i>Tree Physiology</i> , 2008, 29, 77-86.	3.1	37
26	Using trunk diameter sensors for regulated deficit irrigation scheduling in early maturing peach trees. <i>Environmental and Experimental Botany</i> , 2011, 71, 409-409.	4.2	37
27	Mycorrhizal <i>euonymus</i> plants and reclaimed water: Biomass, water status and nutritional responses. <i>Scientia Horticulturae</i> , 2015, 186, 61-69.	3.6	35
28	Initial water deficit effects on <i>Lupinus albus</i> photosynthetic performance, carbon metabolism, and hormonal balance: metabolic reorganization prior to early stress responses. <i>Journal of Experimental Botany</i> , 2011, 62, 4965-4974.	4.8	33
29	Mechanisms for drought resistance in early maturing cvar Flordastar peach trees. <i>Journal of Agricultural Science</i> , 2011, 149, 609-616.	1.3	33
30	Deficit irrigation as a strategy to control growth in ornamental plants and enhance their ability to adapt to drought conditions. <i>Journal of Horticultural Science and Biotechnology</i> , 2019, 94, 137-150.	1.9	32
31	Water status indicators of lemon trees in response to flooding and recovery. <i>Biologia Plantarum</i> , 2007, 51, 292-296.	1.9	30
32	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
33	Influence of crop load on maximum daily trunk shrinkage reference equations for irrigation scheduling of early maturing peach trees. <i>Agricultural Water Management</i> , 2010, 97, 333-338.	5.6	28
34	Sensitivity of thermal imaging and infrared thermometry to detect water status changes in <i>Euonymus japonica</i> plants irrigated with saline reclaimed water. <i>Biosystems Engineering</i> , 2015, 133, 21-32.	4.3	28
35	Establishing maximum daily trunk shrinkage and midday stem water potential reference equations for irrigation scheduling of early maturing peach trees. <i>Irrigation Science</i> , 2011, 29, 299-309.	2.8	26
36	Physiological mechanisms involved in the recovery of <i>euonymus</i> and <i>laurustinus</i> subjected to saline waters. <i>Agricultural Water Management</i> , 2013, 128, 131-139.	5.6	26

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37	Changes in growth, physiological parameters and the hormonal status of <i>Myrtus communis</i> L. plants irrigated with water with different chemical compositions. <i>Journal of Plant Physiology</i> , 2016, 191, 12-21.	3.5	25
38	Assessment of maximum daily trunk shrinkage signal intensity threshold values for deficit irrigation in lemon trees. <i>Agricultural Water Management</i> , 2009, 96, 80-86.	5.6	24
39	Using continuously recorded trunk diameter fluctuations for estimating water requirements of lemon trees. <i>Irrigation Science</i> , 2009, 27, 271-276.	2.8	23
40	Influence of arbuscular mycorrhizal fungi and treated wastewater on water relations and leaf structure alterations of <i>Viburnum tinus</i> L. plants during both saline and recovery periods. <i>Journal of Plant Physiology</i> , 2015, 188, 96-105.	3.5	22
41	Mycorrhizal inoculation on compost substrate affects nutritional balance, water uptake and photosynthetic efficiency in <i>Cistus albidus</i> plants submitted to water stress. <i>Revista Brasileira De Botanica</i> , 2018, 41, 299-310.	1.3	21
42	Assessment of soil salinity indexes using electrical conductivity sensors. <i>Scientia Horticulturae</i> , 2021, 285, 110171.	3.6	21
43	Protective effects of <i>Glomus iranicum</i> var. <i>tenuihypharum</i> on soil and <i>Viburnum tinus</i> plants irrigated with treated wastewater under field conditions. <i>Mycorrhiza</i> , 2015, 25, 399-409.	2.8	20
44	Seasonal changes of maximum daily shrinkage reference equations for irrigation scheduling in olive trees: Influence of fruit load. <i>Agricultural Water Management</i> , 2011, 99, 121-127.	5.6	17
45	Iron deficiency enhances bioactive phenolics in lemon juice. <i>Journal of the Science of Food and Agriculture</i> , 2011, 91, n/a-n/a.	3.5	15
46	Recycled Wastewater and Reverse Osmosis Brine Use for Halophytes Irrigation: Differences in Physiological, Nutritional and Hormonal Responses of <i>Crithmum maritimum</i> and <i>Atriplex halimus</i> Plants. <i>Agronomy</i> , 2021, 11, 627.	3.0	12
47	Influence of Mixed Substrate and Arbuscular Mycorrhizal Fungi on Photosynthetic Efficiency, Nutrient and Water Status and Yield in Tomato Plants Irrigated with Saline Reclaimed Waters. <i>Water (Switzerland)</i> , 2020, 12, 438.	2.7	11
48	Diurnal variations in water relations of deficit irrigated lemon trees during fruit growth period. <i>Spanish Journal of Agricultural Research</i> , 2013, 11, 137.	0.6	11
49	Controlling salt flushing using a salinity index obtained by soil dielectric sensors improves the physiological status and quality of potted hydrangea plant. <i>Scientia Horticulturae</i> , 2019, 247, 335-343.	3.6	7
50	Assessment of the Combined Effect of Temperature and Salinity on the Outputs of Soil Dielectric Sensors in Coconut Fiber. <i>Sustainability</i> , 2020, 12, 6577.	3.2	6
51	Substrate composition affects the development of water stress and subsequent recovery by inducing physiological changes in <i>Cistus albidus</i> plants. <i>Plant Physiology and Biochemistry</i> , 2021, 158, 125-135.	5.8	6
52	Daily Photosynthesis, Water Relations, and Ion Concentrations of <i>Euonymus</i> Irrigated with Treated Wastewater. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014, 49, 1292-1297.	1.0	6
53	Control of Substrate Water Availability Using Soil Sensors and Effects of Water Deficit on the Morphology and Physiology of Potted <i>Hebe andersonii</i> . <i>Agronomy</i> , 2022, 12, 206.	3.0	6
54	Efficiency of a new strategy involving a new class of natural heterocyclic and iron(III) chelates (Fe(III)-NHL) to improve fruit tree growth in alkaline/calcareous soils. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 3065-3071.	3.5	5

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55	Effectiveness of bacterial inoculation in alleviation of salinity on water status, mineral content, gas exchange and photosynthetic parameters of <i>Viburnum tinus</i> L. plants. <i>Scientia Horticulturae</i> , 2018, 237, 303-310.	3.6	5
56	Erratum to "Analysis of carbohydrates in <i>Lupinus albus</i> stems on imposition of water deficit, using porous graphitic carbon liquid chromatography-electrospray ionization mass spectrometry". <i>J. Chromatogr. A</i> 1187 (2008) 111-118]. <i>Journal of Chromatography A</i> , 2008, 1201, 132.	3.7	3
57	Influence of mycorrhizal or microbial complex inoculation on <i>laurostinus</i> plants irrigated with reclaimed water. <i>Journal of Horticultural Science and Biotechnology</i> , 2020, 95, 661-672.	1.9	3
58	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.	3.5	3
59	The use of reclaimed water is a viable and safe strategy for the irrigation of myrtle plants in a scenario of climate change. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 1741-1747.	2.1	2
60	Tolerance and Recovery Capacity to Reclaimed Wastewater Irrigation of <i>Salvia officinalis</i> and <i>Asteriscus maritimus</i> Plants Inoculated with Arbuscular Mycorrhizae. <i>Horticulturae</i> , 2022, 8, 159.	2.8	1