Maria Fernanda OrtuÃ±o

List of Publications by Year
in descending order

60 papers	3,766 citations	159358 30 h-index	128067 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. Agronomy, 2017, 7, 18.	1.3	872
2	Deficit irrigation in grapevine improves water-use efficiency while controlling vigour and production quality. Annals of Applied Biology, 2007, 150, 237-252.	1.3	396
3	Deficit Irrigation as a Strategy to Save Water: Physiology and Potential Application to Horticulture. Journal of Integrative Plant Biology, 2007, 49, 1421-1434.	4.1	313
4	Could trunk diameter sensors be used in woody crops for irrigation scheduling? A review of current knowledge and future perspectives. Agricultural Water Management, 2010, 97, 1-11.	2.4	156
5	Effects of NaCl salinity and water stress on growth and leaf water relations of plants. Environmental and Experimental Botany, 2005, 53, 113-123.	2.0	139
6	Mesophyll conductance to CO 2 in Arabidopsis thaliana. New Phytologist, 2007, 175, 501-511.	3.5	138
7	Grapevine varieties exhibiting differences in stomatal response to water deficit. Functional Plant Biology, 2012, 39, 179.	1.1	118
8	Comparative growth and water relations of Cistus albidus and Cistus monspeliensis plants during water deficit conditions and recovery. Plant Science, 2002, 162, 107-113.	1.7	117
9	Stem and leaf water potentials, gas exchange, sap flow, and trunk diameter fluctuations for detecting water stress in lemon trees. Trees - Structure and Function, 2006, 20, 1-8.	0.9	106
10	Relationships Between Climatic Variables and Sap Flow, Stem Water Potential and Maximum Daily Trunk Shrinkage in Lemon Trees. Plant and Soil, 2006, 279, 229-242.	1.8	76
11	Plant water relations of leaves of pomegranate trees under different irrigation conditions. Environmental and Experimental Botany, 2012, 77, 19-24.	2.0	64
12	Interpreting trunk diameter changes in young lemon trees under deficit irrigation. Plant Science, 2004, 167, 275-280.	1.7	59
13	Analysis of carbohydrates in Lupinus albus stems on imposition of water deficit, using porous graphitic carbon liquid chromatography-electrospray ionization mass spectrometry. Journal of Chromatography A, 2008, 1187, 111-118.	1.8	58
14	Environmental and stomatal control of transpiration, canopy conductance and decoupling coefficient in young lemon trees under shading net. Environmental and Experimental Botany, 2008, 63, 200-206.	2.0	56
15	Spatial root distribution of apricot trees in different soil tillage practices. Plant and Soil, 2005, 272, 211-221.	1.8	55
16	Stem water potential estimation of drip-irrigated early-maturing peach trees under Mediterranean conditions. Computers and Electronics in Agriculture, 2015, 114, 7-13.	3.7	55
17	Maximum daily trunk shrinkage and stem water potential reference equations for irrigation scheduling of lemon trees. Irrigation Science, 2009, 27, 121-127.	1.3	50
18	Sap flow and trunk diameter fluctuations of young lemon trees under water stress and rewatering. Environmental and Experimental Botany, 2005, 54, 155-162.	2.0	44

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19	Preliminary assessment of the feasibility of using maximum daily trunk shrinkage for irrigation scheduling in lemon trees. Agricultural Water Management, 2007, 89, 167-171.	2.4	44
20	New approach for olive trees irrigation scheduling using trunk diameter sensors. Agricultural Water Management, 2010, 97, 1822-1828.	2.4	43
21	Evaluation of transpiration in adult apricot trees from sap flow measurements. Agricultural Water Management, 2005, 72, 131-145.	2.4	42
22	Water relations, nutrient content and developmental responses of Euonymus plants irrigated with water of different degrees of salinity and quality. Journal of Plant Research, 2013, 126, 567-576.	1.2	40
23	Improving water-use efficiency of young lemon trees by shading with aluminised-plastic nets. Agricultural Water Management, 2006, 82, 387-398.	2.4	39
24	Comparison of continuously recorded plant-based water stress indicators for young lemon trees. Plant and Soil, 2004, 267, 263-270.	1.8	37
25	Acclimation to short-term low temperatures in two Eucalyptus globulus clones with contrasting drought resistance. Tree Physiology, 2008, 29, 77-86.	1.4	37
26	Using trunk diameter sensors for regulated deficit irrigation scheduling in early maturing peach trees. Environmental and Experimental Botany, 2011, 71, 409-409.	2.0	37
27	Mycorrhizal euonymus plants and reclaimed water: Biomass, water status and nutritional responses. Scientia Horticulturae, 2015, 186, 61-69.	1.7	35
28	Initial water deficit effects on Lupinus albus photosynthetic performance, carbon metabolism, and hormonal balance: metabolic reorganization prior to early stress responses. Journal of Experimental Botany, 2011, 62, 4965-4974.	2.4	33
29	Mechanisms for drought resistance in early maturing cvar Flordastar peach trees. Journal of Agricultural Science, 2011, 149, 609-616.	0.6	33
30	Deficit irrigation as a strategy to control growth in ornamental plants and enhance their ability to adapt to drought conditions. Journal of Horticultural Science and Biotechnology, 2019, 94, 137-150.	0.9	32
31	Water status indicators of lemon trees in response to flooding and recovery. Biologia Plantarum, 2007, 51, 292-296.	1.9	30
32	Compensation heat-pulse measurements of sap flow for estimating transpiration in young lemon trees. Biologia Plantarum, 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. Agricultural Water Management, 2010, 97, 333-338.	2.4	28
34	Sensitivity of thermal imaging and infrared thermometry to detect water status changes in Euonymus japonica plants irrigated with saline reclaimed water. Biosystems Engineering, 2015, 133, 21-32.	1.9	28
35	Establishing maximum daily trunk shrinkage and midday stem water potential reference equations for irrigation scheduling of early maturing peach trees. Irrigation Science, 2011, 29, 299-309.	1.3	26
36	Physiological mechanisms involved in the recovery of euonymus and laurustinus subjected to saline waters. Agricultural Water Management, 2013, 128, 131-139.	2.4	26

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37	Changes in growth, physiological parameters and the hormonal status of Myrtus communis L. plants irrigated with water with different chemical compositions. Journal of Plant Physiology, 2016, 191, 12-21.	1.6	25
38	Assessment of maximum daily trunk shrinkage signal intensity threshold values for deficit irrigation in lemon trees. Agricultural Water Management, 2009, 96, 80-86.	2.4	24
39	Using continuously recorded trunk diameter fluctuations for estimating water requirements of lemon trees. Irrigation Science, 2009, 27, 271-276.	1.3	23
40	Influence of arbuscular mycorrhizal fungi and treated wastewater on water relations and leaf structure alterations of Viburnum tinus L. plants during both saline and recovery periods. Journal of Plant Physiology, 2015, 188, 96-105.	1.6	22
41	Mycorrhizal inoculation on compost substrate affects nutritional balance, water uptake and photosynthetic efficiency in Cistus albidus plants submitted to water stress. Revista Brasileira De Botanica, 2018, 41, 299-310.	0.5	21
42	Assessment of soil salinity indexes using electrical conductivity sensors. Scientia Horticulturae, 2021, 285, 110171.	1.7	21
43	Protective effects of Glomus iranicum var. tenuihypharum on soil and Viburnum tinus plants irrigated with treated wastewater under field conditions. Mycorrhiza, 2015, 25, 399-409.	1.3	20
44	Seasonal changes of maximum daily shrinkage reference equations for irrigation scheduling in olive trees: Influence of fruit load. Agricultural Water Management, 2011, 99, 121-127.	2.4	17
45	Iron deficiency enhances bioactive phenolics in lemon juice. Journal of the Science of Food and Agriculture, 2011, 91, n/a-n/a.	1.7	15
46	Recycled Wastewater and Reverse Osmosis Brine Use for Halophytes Irrigation: Differences in Physiological, Nutritional and Hormonal Responses of Crithmum maritimum and Atriplex halimus Plants. Agronomy, 2021, 11, 627.	1.3	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. Water (Switzerland), 2020, 12, 438.	1.2	11
48	Diurnal variations in water relations of deficit irrigated lemon trees during fruit growth period. Spanish Journal of Agricultural Research, 2013, 11, 137.	0.3	11
49	Controlling salt flushing using a salinity index obtained by soil dielectric sensors improves the physiological status and quality of potted hydrangea plant. Scientia Horticulturae, 2019, 247, 335-343.	1.7	7
50	Assessment of the Combined Effect of Temperature and Salinity on the Outputs of Soil Dielectric Sensors in Coconut Fiber. Sustainability, 2020, 12, 6577.	1.6	6
51	Substrate composition affects the development of water stress and subsequent recovery by inducing physiological changes in Cistus albidus plants. Plant Physiology and Biochemistry, 2021, 158, 125-135.	2.8	6
52	Daily Photosynthesis, Water Relations, and Ion Concentrations of Euonymus Irrigated with Treated Wastewater. Hortscience: A Publication of the American Society for Hortcultural Science, 2014, 49, 1292-1297.	0.5	6
53	Control of Substrate Water Availability Using Soil Sensors and Effects of Water Deficit on the Morphology and Physiology of Potted Hebe andersonii. Agronomy, 2022, 12, 206.	1.3	6
54	Efficiency of a new strategy involving a new class of natural heteroâ€ligand iron(III) chelates (Fe(III)â€NHL) to improve fruit tree growth in alkaline/calcareous soils. Journal of the Science of Food and Agriculture, 2012, 92, 3065-3071.	1.7	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 Viburnum tinus L. plants. Scientia Horticulturae, 2018, 237, 303-310.	1.7	5
56	Erratum to â€œAnalysis of carbohydrates in Lupinus albus stems on imposition of water deficit, using porous graphitic carbon liquid chromatographyâ€“electrospray ionization mass spectrometryâ€•[J. Chromatogr. A 1187 (2008) 111â€“118]. Journal of Chromatography A, 2008, 1201, 132.	1.8	3
57	Influence of mycorrhizal or microbial complex inoculation on laurustinus plants irrigated with reclaimed water. Journal of Horticultural Science and Biotechnology, 2020, 95, 661-672.	0.9	3
58	Effect of Pisolithus tinctorious on Physiological and Hormonal Traits in Cistus Plants to Water Deficit: Relationships among Water Status, Photosynthetic Activity and Plant Quality. Plants, 2021, 10, 976.	1.6	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. Water Science and Technology: Water Supply, 2019, 19, 1741-1747.	1.0	2
60	Tolerance and Recovery Capacity to Reclaimed Wastewater Irrigation of Salvia officinalis and Asteriscus maritimus Plants Inoculated with Arbuscular Mycorrhizae. Horticulturae, 2022, 8, 159.	1.2	1