Arturo Torrecillas

List of Publications by Year
in descending order

100	4,526	81743	118652
papers	citations	39 h-index	62 g-index

100	100	100	3401
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High temperature effects on photosynthetic activity of two tomato cultivars with different heat susceptibility. Journal of Plant Physiology, 2005, 162, 281-289.	1.6	479
2	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
3	Effects of water stress and night temperature preconditioning on water relations and morphological and anatomical changes of Lotus creticus plants. Scientia Horticulturae, 2004, 101, 333-342.	1.7	148
4	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
5	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
6	Deficit irrigation and emerging fruit crops as a strategy to save water in Mediterranean semiarid agrosystems. Agricultural Water Management, 2018, 202, 311-324.	2.4	116
7	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
8	Water relations, growth and yield of Fino lemon trees under regulated deficit irrigation. Irrigation Science, 1996, 16, 115-123.	1.3	102
9	Water stress preconditioning to improve drought resistance in young apricot plants. Plant Science, 2000, 156, 245-251.	1.7	94
10	Apricot tree response to withholding irrigation at different phenological periods. Scientia Horticulturae, 2000, 85, 201-215.	1.7	90
11	Water relations of two tomato species under water stress and recovery. Plant Science, 1995, 105, 169-176.	1.7	84
12	Strategies for drought resistance in leaves of two almond cultivars. Plant Science, 1996, 118, 135-143.	1.7	82
13	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
14	Effect of water and salt stresses on the growth, gas exchange and water relations in Argyranthemum coronopifolium plants. Plant Science, 1998, 139, 9-17.	1.7	71
15	Response of apricot trees to deficit irrigation strategies. Irrigation Science, 2009, 27, 231-242.	1.3	70
16	Responses of tomato plants associated with the arbuscular mycorrhizal fungus Glomus clarum during drought and recovery. Journal of Agricultural Science, 2002, 138, 387-393.	0.6	65
17	Plant water relations of leaves of pomegranate trees under different irrigation conditions. Environmental and Experimental Botany, 2012, 77, 19-24.	2.0	64
18	Effects of water stress and rewatering on leaf water relations of lemon plants. Biologia Plantarum, 1997, 39, 623-631.	1.9	61

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19	Growth and osmotic adjustment of two tomato cultivars during and after saline stress. Plant and Soil, 1994, 166, 75-82.	1.8	60
20	Rainfall intensifies fruit peel cracking in water stressed pomegranate trees. Agricultural and Forest Meteorology, 2014, 194, 29-35.	1.9	60
21	Interpreting trunk diameter changes in young lemon trees under deficit irrigation. Plant Science, 2004, 167, 275-280.	1.7	59
22	Diurnal and seasonal osmotic potential changes in Lotus creticus creticus plants grown under saline stress. Plant Science, 1998, 136, 1-10.	1.7	58
23	Sap flow as an indicator of transpiration and the water status of young apricot trees. Plant and Soil, 2000, 227, 77-85.	1.8	57
24	Some physiological and morphological characteristics of citrus plants for drought resistance. Plant Science, 1995, 110, 167-172.	1.7	56
25	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
26	Pomegranate (Punica granatum L.) fruit response to different deficit irrigation conditions. Agricultural Water Management, 2012, 114, 30-36.	2.4	55
27	Inhibition of Î±-glucosidase and Î±-amylase by Spanish extra virgin olive oils: The involvement of bioactive compounds other than oleuropein and hydroxytyrosol. Food Chemistry, 2017, 235, 298-307.	4.2	54
28	New UHPLCâ€“QqQ-MS/MS method for quantitative and qualitative determination of free phytoprostanes in foodstuffs of commercial olive and sunflower oils. Food Chemistry, 2015, 178, 212-220.	4.2	51
29	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
30	Sustained deficit irrigation affects the colour and phytochemical characteristics of pomegranate juice. Journal of the Science of Food and Agriculture, 2013, 93, 1922-1927.	1.7	49
31	The effect of short-term flooding on the sap flow, gas exchange and hydraulic conductivity of young apricot trees. Trees - Structure and Function, 2005, 19, 51-57.	0.9	48
32	Growth and phenological stages of BÃºlida apricot trees in south-east Spain. Agronomy for Sustainable Development, 2004, 24, 93-100.	0.8	47
33	Yield response to regulated deficit irrigation of greenhouse cherry tomatoes. Agricultural Water Management, 2019, 213, 212-221.	2.4	46
34	Sensory and physico-chemical quality attributes of jujube fruits as affected by crop load. LWT - Food Science and Technology, 2015, 63, 899-905.	2.5	45
35	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
36	Sap flow, gas exchange, and hydraulic conductance of young apricot trees growing under a shading net and different water supplies. Journal of Plant Physiology, 2005, 162, 439-447.	1.6	44

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37	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
38	New approach for olive trees irrigation scheduling using trunk diameter sensors. Agricultural Water Management, 2010, 97, 1822-1828.	2.4	43
39	Evaluation of transpiration in adult apricot trees from sap flow measurements. Agricultural Water Management, 2005, 72, 131-145.	2.4	42
40	Gas exchange and water relations of young apricot plants under drought conditions. Journal of Agricultural Science, 1999, 132, 445-452.	0.6	39
41	Improving water-use efficiency of young lemon trees by shading with aluminised-plastic nets. Agricultural Water Management, 2006, 82, 387-398.	2.4	39
42	Maximum daily trunk shrinkage reference values for irrigation scheduling in olive trees. Agricultural Water Management, 2006, 84, 290-294.	2.4	39
43	Phytochemical and quality attributes of pomegranate fruits for juice consumption as affected by ripening stage and deficit irrigation. Journal of the Science of Food and Agriculture, 2014, 94, 2259-2265.	1.7	39
44	Seasonal variations on water relations ofAmygdalus communis L. under drip irrigated and non irrigated conditions. Plant and Soil, 1988, 106, 215-220.	1.8	37
45	Water relations of Fino lemon plants on two rootstocks under flooded conditions. Plant Science, 1996, 120, 119-125.	1.7	37
46	Comparison of continuously recorded plant-based water stress indicators for young lemon trees. Plant and Soil, 2004, 267, 263-270.	1.8	37
47	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
48	Low water stress conditions in table olive trees (Olea europaea L.) during pit hardening produced a different response of fruit and leaf water relations. Agricultural Water Management, 2012, 114, 11-17.	2.4	37
49	Changes in the physiological response between leaves and fruits during a moderate water stress in table olive trees. Agricultural Water Management, 2015, 148, 280-286.	2.4	36
50	Comparison of growth, leaf water relations and gas exchange of Cistus albidus and C. monspeliensis plants irrigated with water of different NaCl salinity levels. Scientia Horticulturae, 2003, 97, 353-368.	1.7	34
51	The phytoprostane content in green table olives is influenced by Spanish-style processing and regulated deficit irrigation. LWT - Food Science and Technology, 2015, 64, 997-1003.	2.5	34
52	Water stress at the end of the pomegranate fruit ripening stage produces earlier harvest and improves fruit quality. Scientia Horticulturae, 2017, 226, 68-74.	1.7	34
53	Floral biology of â€˜Bulidaâ€™ apricot trees subjected to postharvest drought stress. Annals of Applied Biology, 1999, 135, 523-528.	1.3	32
54	Estimation of hydraulic conductance within field-grown apricot using sap flow measurements. Plant and Soil, 2003, 251, 125-135.	1.8	32

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55	Transpiration and canopy conductance in young apricot (Prunus armenica L.) trees subjected to different PAR levels and water stress. Agricultural Water Management, 2005, 77, 323-333.	2.4	32
56	Effects of water deficit during maturation on amino acids and jujube fruit eating quality. Macedonian Journal of Chemistry and Chemical Engineering, 2014, 33, 105.	0.2	31
57	Water status indicators of lemon trees in response to flooding and recovery. Biologia Plantarum, 2007, 51, 292-296.	1.9	30
58	Regulated deficit irrigation based on threshold values of trunk diameter fluctuation indicators in table olive trees. Scientia Horticulturae, 2013, 164, 102-111.	1.7	30
59	Compensation heat-pulse measurements of sap flow for estimating transpiration in young lemon trees. Biologia Plantarum, 2005, 49, 527-532.	1.9	29
60	Phytoprostanes. Lipid Technology, 2015, 27, 127-130.	0.3	29
61	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
62	Effect of Water Deficit and Domestic Storage on the Procyanidin Profile, Size, and Aggregation Process in Pear-Jujube (Z. jujuba) Fruits. Journal of Agricultural and Food Chemistry, 2013, 61, 6187-6197.	2.4	28
63	The effect of different irrigation treatments on yield and quality of Verna lemon. Plant and Soil, 1989, 120, 299-302.	1.8	27
64	Water Deficit during Pit Hardening Enhances Phytoprostanes Content, a Plant Biomarker of Oxidative Stress, in Extra Virgin Olive Oil. Journal of Agricultural and Food Chemistry, 2015, 63, 3784-3792.	2.4	27
65	Feasibility of trunk diameter fluctuations in the scheduling of regulated deficit irrigation for table olive trees without reference trees. Agricultural Water Management, 2015, 161, 114-126.	2.4	27
66	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
67	Leaf mechanisms for drought resistance in Zizyphus jujuba trees. Plant Science, 2012, 197, 77-83.	1.7	26
68	Assessment of discretely measured indicators and maximum daily trunk shrinkage for detecting water stress in pomegranate trees. Agricultural and Forest Meteorology, 2013, 180, 58-65.	1.9	26
69	Comparison of the water potential baseline in different locations. Usefulness for irrigation scheduling of olive orchards. Agricultural Water Management, 2016, 177, 308-316.	2.4	26
70	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
71	Differences in the effects of flooding the soil early and late in the photoperiod on the water relations of pot-grown tomato plants. Plant Science, 2001, 160, 481-487.	1.7	23
72	Using continuously recorded trunk diameter fluctuations for estimating water requirements of lemon trees. Irrigation Science, 2009, 27, 271-276.	1.3	23

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73	Volatile composition and sensory and quality attributes of quince (Cydonia oblonga Mill.) fruits as affected by water stress. Scientia Horticulturae, 2019, 244, 68-74.	1.7	21
74	Effect of the season on the free phytoprostane content in Cornicabra extra virgin olive oil from deficitâ€irrigated olive trees. Journal of the Science of Food and Agriculture, 2016, 96, 1585-1592.	1.7	19
75	Stomatal response to leaf water potential in almond trees under drip irrigated and non irrigated conditions. Plant and Soil, 1988, 112, 151-153.	1.8	18
76	Model-assisted evaluation of crop load effects on stem diameter variations and fruit growth in peach. Trees - Structure and Function, 2014, 28, 1607-1622.	0.9	18
77	Growth and Water Relations of Lotus Creticus Creticus Plants as Affected by Salinity. Biologia Plantarum, 2000, 43, 413-417.	1.9	17
78	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
79	Jujube fruit water relations at fruit maturation in response to water deficits. Agricultural Water Management, 2016, 164, 110-117.	2.4	16
80	Leaf water potential and leaf conductance during the growing season in almond trees under different irrigation regimes. Biologia Plantarum, 1988, 30, 327-332.	1.9	15
81	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
82	Limitations and usefulness of maximum daily shrinkage (MDS) and trunk growth rate (TGR) indicators in the irrigation scheduling of table olive trees. Agricultural Water Management, 2016, 164, 38-45.	2.4	14
83	Effects of Deficit Irrigation, Rootstock, and Roasting on the Contents of Fatty Acids, Phytoprostanes, and Phytofurans in Pistachio Kernels. Journal of Agricultural and Food Chemistry, 2020, 68, 8915-8924.	2.4	14
84	Biochemical indicators of the water stress in maize seedlings. Biologia Plantarum, 1987, 29, 45-48.	1.9	12
85	Influence of rootstock on pistachio (Pistacia vera L. cv Kerman) water relations. Agricultural Water Management, 2018, 202, 263-270.	2.4	12
86	Effect of preharvest fruit bagging on fruit quality characteristics and incidence of fruit physiopathies in fully irrigated and water stressed pomegranate trees. Journal of the Science of Food and Agriculture, 2019, 99, 1425-1433.	1.7	12
87	Water relations and osmotic adjustment in Lycopersicon esculentum and L. pennellii during short-term salt exposure and recovery. Physiologia Plantarum, 1993, 89, 441-447.	2.6	12
88	Using band dendrometers in irrigation scheduling. Agricultural Water Management, 2014, 142, 29-37.	2.4	11
89	The water relations of Verna Lemon trees from flowering to the end of rapid fruit growth. Biologia Plantarum, 1990, 32, 357-363.	1.9	8
90	Osmotic adjustment in leaves ofLycopersicon esculentum andL. pennellii in response to saline water irrigation. Biologia Plantarum, 1994, 36, 247-254.	1.9	8

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91	Approach for using trunk growth rate (TGR) in the irrigation scheduling of table olive orchards. Agricultural Water Management, 2017, 192, 12-20.	2.4	8
92	For a better use and distribution of water: An introduction. Agricultural Water Management, 2012, 114, 1-3.	2.4	7
93	Salinity effects on water relations in Lycopersicon esculentum and its wild salt-tolerant relative species L. pennellii. Physiologia Plantarum, 1991, 83, 269-274.	2.6	6
94	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
95	Fruit Response to Water-Scarcity Scenarios. Water Relations and Biochemical Changes. , 2018, , 349-375.		5
96	Biochemical indicators of water stress in sunflower seedlings. Biologia Plantarum, 1987, 29, 473-475.	1.9	4
97	Peroxidase assay using 3,3â€²,5,5â€² tetramethyl benzidine as H-donor for rapid diagnosis of iron deficiency in citrus. Scientia Horticulturae, 1990, 42, 251-255.	1.7	4
98	A rapid chronometric assay of peroxidase activity in citrus leaf discs. Scientia Horticulturae, 1985, 26, 273-277.	1.7	2
99	Enhancing plant water use efficiency to meet future food production. Agricultural Water Management, 2016, 164, 3-4.	2.4	2
100	Determination of ribonuclease activity in coloured extracts of citrus leaves. Biologia Plantarum, 1986, 28, 424-428.	1.9	1