Gregorio Egea

List of Publications by Year
in descending order

57	2,073	218381	233125
papers	citations	26 h-index	45 g-index

59	59	59	2601
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards an improved and more flexible representation of water stress in coupled photosynthesisâ€“stomatal conductance models. Agricultural and Forest Meteorology, 2011, 151, 1370-1384.	1.9	212
2	Modeling plant transpiration under limited soil water: Comparison of different plant and soil hydraulic parameterizations and preliminary implications for their use in land surface models. Agricultural and Forest Meteorology, 2014, 191, 22-32.	1.9	146
3	Most stomatal closure in woody species under moderate drought can be explained by stomatal responses to leaf turgor. Plant, Cell and Environment, 2016, 39, 2014-2026.	2.8	133
4	Assessing a crop water stress index derived from aerial thermal imaging and infrared thermometry in super-high density olive orchards. Agricultural Water Management, 2017, 187, 210-221.	2.4	121
5	Deep learning techniques for estimation of the yield and size of citrus fruits using a UAV. European Journal of Agronomy, 2020, 115, 126030.	1.9	121
6	Vertical Greening Systems and Sustainable Cities. Journal of Urban Technology, 2015, 22, 65-85.	2.5	119
7	Abscisic acid signalling when soil moisture is heterogeneous: decreased photoperiod sap flow from drying roots limits abscisic acid export to the shoots. Plant, Cell and Environment, 2008, 31, 1263-1274.	2.8	109
8	Agronomic response and water productivity of almond trees under contrasted deficit irrigation regimes. Agricultural Water Management, 2010, 97, 171-181.	2.4	95
9	Accounting for sap flow from different parts of the root system improves the prediction of xylem ABA concentration in plants grown with heterogeneous soil moisture. Journal of Experimental Botany, 2008, 59, 4083-4093.	2.4	73
10	Comparison of changes in stem diameter and water potential values for detecting water stress in young almond trees. Agricultural Water Management, 2005, 77, 296-307.	2.4	70
11	The effects of contrasted deficit irrigation strategies on the fruit growth and kernel quality of mature almond trees. Agricultural Water Management, 2009, 96, 1605-1614.	2.4	70
12	Influence of an active living wall on indoor temperature and humidity conditions. Ecological Engineering, 2016, 90, 120-124.	1.6	70
13	Linking thermal imaging and soil remote sensing to enhance irrigation management of sugar beet. Biosystems Engineering, 2018, 165, 77-87.	1.9	66
14	Root water potential integrates discrete soil physical properties to influence ABA signalling during partial rootzone drying. Journal of Experimental Botany, 2010, 61, 3543-3551.	2.4	62
15	A cost-effective canopy temperature measurement system for precision agriculture: a case study on sugar beet. Precision Agriculture, 2017, 18, 95-110.	3.1	58
16	Almond agronomic response to long-term deficit irrigation applied since orchard establishment. Irrigation Science, 2013, 31, 445-454.	1.3	55
17	Disentangling the contributions of ontogeny and water stress to photosynthetic limitations in almond trees. Plant, Cell and Environment, 2011, 34, 962-979.	2.8	41
18	Usefulness of establishing trunk diameter based reference lines for irrigation scheduling in almond trees. Irrigation Science, 2009, 27, 431-441.	1.3	39

#	Article	IF	Citations
19	QualiTree, a virtual fruit tree to study the management of fruit quality. II. Parameterisation for peach, analysis of growth-related processes and agronomic scenarios. Trees - Structure and Function, 2011, 25, 785-799.	0.9	36
20	Partial rootzone drying improves almond tree leaf-level water use efficiency and afternoon water status compared with regulated deficit irrigation. Functional Plant Biology, 2011, 38, 372.	1.1	35
21	Irrigation Systems Evaluation for Living Walls. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, .	0.6	31
22	Soil moisture dynamics in a hedgerow olive orchard under well-watered and deficit irrigation regimes: Assessment, prediction and scenario analysis. Agricultural Water Management, 2016, 164, 197-211.	2.4	31
23	Financial assessment of adopting irrigation technology for plant-based regulated deficit irrigation scheduling in super high-density olive orchards. Agricultural Water Management, 2017, 187, 47-56.	2.4	31
24	Seasonal effects of deficit irrigation on leaf photosynthetic traits of fruiting and non-fruiting shoots in almond trees. Tree Physiology, 2009, 29, 375-388.	1.4	30
25	Financial feasibility of implementing regulated and sustained deficit irrigation in almond orchards. Irrigation Science, 2013, 31, 931-941.	1.3	30
26	A Mixed Data-Based Deep Neural Network to Estimate Leaf Area Index in Wheat Breeding Trials. Agronomy, 2020, 10, 175.	1.3	29
27	Development and evaluation of a self-propelled electric platform for high-throughput field phenotyping in wheat breeding trials. Computers and Electronics in Agriculture, 2020, 169, 105237.	3.7	19
28	Effects of water stress on irradiance acclimation of leaf traits in almond trees. Tree Physiology, 2012, 32, 450-463.	1.4	18
29	Assessment of perlite, expanded clay and pumice as substrates for living walls. Scientia Horticulturae, 2019, 254, 48-54.	1.7	17
30	Lighting systems evaluation for indoor living walls. Urban Forestry and Urban Greening, 2014, 13, 475-483.	2.3	16
31	Design and assessment of new artificial reference surfaces for real time monitoring of crop water stress index in maize. Agricultural Water Management, 2020, 240, 106304.	2.4	11
32	Spatial variability of soil CO 2 efflux in drip-irrigated old and young citrus orchards and its dependence on biotic and abiotic factors. Geoderma, 2017, 294, 29-37.	2.3	10
33	Water management assessment in a historic garden: the case study of the Real Alcazar (Seville, Spain). Urban Forestry and Urban Greening, 2018, 29, 192-199.	2.3	9
34	Characterization and modelling of soil CO 2 efflux in old and young irrigated citrus orchards. Catena, 2018, 162, 376-385.	2.2	6
35	On the Treatment of Soil Water Stress in GCM Simulations of Vegetation Physiology. Frontiers in Environmental Science, 2021, 9, .	1.5	5
36	Response of vegetative and fruit growth to the soil volume wetted by irrigation in a super-high-density olive orchard. Agricultural Water Management, 2021, 258, 107197.	2.4	5

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37	COMPARISON OF SEVERAL APPROACHES TO MODELLING STOMATAL CONDUCTANCE IN WELL-WATERED AND DROUGHT-STRESSED ALMOND TREES. Acta Horticulturae, 2011, , 285-293.	0.1	4
38	New approaches for precise irrigation in hedgerow olive orchards. Acta Horticulturae, 2018, , 225-240.	0.1	4
39	Leaf-to-branch scaling of C-gain in field-grown almond trees under different soil moisture regimes. Tree Physiology, 2014, 34, 619-629.	1.4	3
40	Optimization of an automatic irrigation system for precision irrigation of blueberries grown in sandy soil. Advances in Animal Biosciences, 2017, 8, 551-556.	1.0	3
41	Sustainable Deficit-Irrigation Management in Almonds (Prunus dulcis L.). , 2018, , 271-298.		3
42	Turfgrass Recovery after an Induced Drought Period on a Golf Course Fairway: Case Study in Southern Spain. Journal of Irrigation and Drainage Engineering - ASCE, 2019, 145, .	0.6	3
43	Ecosystem respiration of old and young irrigated citrus orchards in a semiarid climate. Agricultural and Forest Meteorology, 2020, 280, 107787.	1.9	3
44	Long-Term Assessment of Reference Baselines for the Determination of the Crop Water Stress Index in Maize under Mediterranean Conditions. Water (Switzerland), 2021, 13, 3119.	1.2	3
45	PARTIAL ROOTZONE DRYING: CHEMICAL SIGNALLING THEORY AND IRRIGATION PRACTICE. Acta Horticulturae, 2011, , 67-74.	0.1	2
46	EFFECTS OF HIGH TEMPERATURE AND VAPOUR PRESSURE DEFICIT ON NET ECOSYSTEM EXCHANGE AND ENERGY BALANCE OF AN IRRIGATED ORANGE ORCHARD IN A SEMI-ARID CLIMATE (SOUTHERN SPAIN). Acta Horticulturae, 2011, , 149-156.	0.1	2
47	â€˜Tifwayâ€™ bermudagrass recovery after drought periods of different durations under shallow sandy soil in a Mediterranean climate. Agricultural Water Management, 2019, 223, 105690.	2.4	2
48	Estimation of the leaf area index in maize based on UAV imagery using deep learning techniques. , 2019, , .		2
49	Monitoring of Emerging Water Stress Situations by Thermal and Vegetation Indices in Different Almond Cultivars. Agronomy, 2021, 11, 1419.	1.3	2
50	COMPARISON OF ALMOND TREE TRANSPIRATION DETERMINED BY SAP FLOW MEASUREMENTS AND LYSIMETRY. Acta Horticulturae, 2009, , 359-366.	0.1	2
51	DO SHORT TERM SAP FLOW MEASUREMENTS SCALE WITH LEAF TRANSPIRATION? A CASE STUDY ON CUCUMIS SATIVUS PLANTS. Acta Horticulturae, 2009, , 127-134.	0.1	0
52	MEASURING SAP FLOW IN "TWO ROOT-ONE SHOOT" GRAFTED PLANTS TO MODEL SHOOT XYLEM ABA CONCENTRATION DURING PARTIAL ROOTZONE DRYING. Acta Horticulturae, 2009, , 277-284.	0.1	0
53	EstimaciÃ³n de parÃ¡metros biofÃsicos de interÃ©s para la mejora de trigo usando inteligencia artificial. , 2019, , .		0
54	DiseÃ±o y primeros resultados de una plataforma mÃ³vil elÃ©ctrica de registro de datos para agricultura de precisiÃ³n. , 2019, , .		0

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55	EstimaciÃ³n de producciÃ³n en cÃ¡ticos usando tÃ©cnicas de aprendizaje automÃ¡tico. , 2019, , .		0
56	Design of a portable sensor suite for real-time monitoring of crop water stress index in maize breeding plots. , 2019, , .		0
57	Assessment of Actual Workload and Student Performance in the Agricultural Engineering Final Degree Project in a Spanish Higher Education Context. Education Sciences, 2022, 12, 418.	1.4	0