

Gregorio Egea

List of Publications by Year in descending order

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57
papers

2,073
citations

218381

26
h-index

233125

45
g-index

59
all docs

59
docs citations

59
times ranked

2601
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of Actual Workload and Student Performance in the Agricultural Engineering Final Degree Project in a Spanish Higher Education Context. <i>Education Sciences</i> , 2022, 12, 418.	1.4	0
2	Monitoring of Emerging Water Stress Situations by Thermal and Vegetation Indices in Different Almond Cultivars. <i>Agronomy</i> , 2021, 11, 1419.	1.3	2
3	On the Treatment of Soil Water Stress in GCM Simulations of Vegetation Physiology. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	5
4	Response of vegetative and fruit growth to the soil volume wetted by irrigation in a super-high-density olive orchard. <i>Agricultural Water Management</i> , 2021, 258, 107197.	2.4	5
5	Long-Term Assessment of Reference Baselines for the Determination of the Crop Water Stress Index in Maize under Mediterranean Conditions. <i>Water (Switzerland)</i> , 2021, 13, 3119.	1.2	3
6	Ecosystem respiration of old and young irrigated citrus orchards in a semiarid climate. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107787.	1.9	3
7	Design and assessment of new artificial reference surfaces for real time monitoring of crop water stress index in maize. <i>Agricultural Water Management</i> , 2020, 240, 106304.	2.4	11
8	Deep learning techniques for estimation of the yield and size of citrus fruits using a UAV. <i>European Journal of Agronomy</i> , 2020, 115, 126030.	1.9	121
9	A Mixed Data-Based Deep Neural Network to Estimate Leaf Area Index in Wheat Breeding Trials. <i>Agronomy</i> , 2020, 10, 175.	1.3	29
10	Development and evaluation of a self-propelled electric platform for high-throughput field phenotyping in wheat breeding trials. <i>Computers and Electronics in Agriculture</i> , 2020, 169, 105237.	3.7	19
11	“Tifway”™ bermudagrass recovery after drought periods of different durations under shallow sandy soil in a Mediterranean climate. <i>Agricultural Water Management</i> , 2019, 223, 105690.	2.4	2
12	Assessment of perlite, expanded clay and pumice as substrates for living walls. <i>Scientia Horticulturae</i> , 2019, 254, 48-54.	1.7	17
13	Turfgrass Recovery after an Induced Drought Period on a Golf Course Fairway: Case Study in Southern Spain. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2019, 145, .	0.6	3
14	Estimation of the leaf area index in maize based on UAV imagery using deep learning techniques. , 2019, , .		2
15	Estimación de parámetros biofísicos de interés para la mejora de trigo usando inteligencia artificial. , 2019, , .		0
16	Diseño y primeros resultados de una plataforma móvil electrónica de registro de datos para agricultura de precisión. , 2019, , .		0
17	Estimación de producción en cÃ©tricos usando tÃ©cnicas de aprendizaje automÃ¡tico. , 2019, , .		0
18	Design of a portable sensor suite for real-time monitoring of crop water stress index in maize breeding plots. , 2019, , .		0

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19	Water management assessment in a historic garden: the case study of the Real Alcazar (Seville, Spain). <i>Urban Forestry and Urban Greening</i> , 2018, 29, 192-199.	2.3	9
20	Linking thermal imaging and soil remote sensing to enhance irrigation management of sugar beet. <i>Biosystems Engineering</i> , 2018, 165, 77-87.	1.9	66
21	Characterization and modelling of soil CO ₂ efflux in old and young irrigated citrus orchards. <i>Catena</i> , 2018, 162, 376-385.	2.2	6
22	New approaches for precise irrigation in hedgerow olive orchards. <i>Acta Horticulturae</i> , 2018, , 225-240.	0.1	4
23	Sustainable Deficit-Irrigation Management in Almonds (<i>Prunus dulcis</i> L.) , 2018, , 271-298.		3
24	Spatial variability of soil CO ₂ efflux in drip-irrigated old and young citrus orchards and its dependence on biotic and abiotic factors. <i>Geoderma</i> , 2017, 294, 29-37.	2.3	10
25	Assessing a crop water stress index derived from aerial thermal imaging and infrared thermometry in super-high density olive orchards. <i>Agricultural Water Management</i> , 2017, 187, 210-221.	2.4	121
26	Financial assessment of adopting irrigation technology for plant-based regulated deficit irrigation scheduling in super high-density olive orchards. <i>Agricultural Water Management</i> , 2017, 187, 47-56.	2.4	31
27	Optimization of an automatic irrigation system for precision irrigation of blueberries grown in sandy soil. <i>Advances in Animal Biosciences</i> , 2017, 8, 551-556.	1.0	3
28	A cost-effective canopy temperature measurement system for precision agriculture: a case study on sugar beet. <i>Precision Agriculture</i> , 2017, 18, 95-110.	3.1	58
29	Most stomatal closure in woody species under moderate drought can be explained by stomatal responses to leaf turgor. <i>Plant, Cell and Environment</i> , 2016, 39, 2014-2026.	2.8	133
30	Influence of an active living wall on indoor temperature and humidity conditions. <i>Ecological Engineering</i> , 2016, 90, 120-124.	1.6	70
31	Soil moisture dynamics in a hedgerow olive orchard under well-watered and deficit irrigation regimes: Assessment, prediction and scenario analysis. <i>Agricultural Water Management</i> , 2016, 164, 197-211.	2.4	31
32	Vertical Greening Systems and Sustainable Cities. <i>Journal of Urban Technology</i> , 2015, 22, 65-85.	2.5	119
33	Irrigation Systems Evaluation for Living Walls. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, .	0.6	31
34	Leaf-to-branch scaling of C-gain in field-grown almond trees under different soil moisture regimes. <i>Tree Physiology</i> , 2014, 34, 619-629.	1.4	3
35	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. <i>Agricultural and Forest Meteorology</i> , 2014, 191, 22-32.	1.9	146
36	Lighting systems evaluation for indoor living walls. <i>Urban Forestry and Urban Greening</i> , 2014, 13, 475-483.	2.3	16

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37	Financial feasibility of implementing regulated and sustained deficit irrigation in almond orchards. <i>Irrigation Science</i> , 2013, 31, 931-941.	1.3	30
38	Almond agronomic response to long-term deficit irrigation applied since orchard establishment. <i>Irrigation Science</i> , 2013, 31, 445-454.	1.3	55
39	Effects of water stress on irradiance acclimation of leaf traits in almond trees. <i>Tree Physiology</i> , 2012, 32, 450-463.	1.4	18
40	Partial rootzone drying improves almond tree leaf-level water use efficiency and afternoon water status compared with regulated deficit irrigation. <i>Functional Plant Biology</i> , 2011, 38, 372.	1.1	35
41	Towards an improved and more flexible representation of water stress in coupled photosynthesis-stomatal conductance models. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1370-1384.	1.9	212
42	PARTIAL ROOTZONE DRYING: CHEMICAL SIGNALLING THEORY AND IRRIGATION PRACTICE. <i>Acta Horticulturae</i> , 2011, , 67-74.	0.1	2
43	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). <i>Acta Horticulturae</i> , 2011, , 149-156.	0.1	2
44	COMPARISON OF SEVERAL APPROACHES TO MODELLING STOMATAL CONDUCTANCE IN WELL-WATERED AND DROUGHT-STRESSED ALMOND TREES. <i>Acta Horticulturae</i> , 2011, , 285-293.	0.1	4
45	Disentangling the contributions of ontogeny and water stress to photosynthetic limitations in almond trees. <i>Plant, Cell and Environment</i> , 2011, 34, 962-979.	2.8	41
46	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
47	Root water potential integrates discrete soil physical properties to influence ABA signalling during partial rootzone drying. <i>Journal of Experimental Botany</i> , 2010, 61, 3543-3551.	2.4	62
48	Agronomic response and water productivity of almond trees under contrasted deficit irrigation regimes. <i>Agricultural Water Management</i> , 2010, 97, 171-181.	2.4	95
49	DO SHORT TERM SAP FLOW MEASUREMENTS SCALE WITH LEAF TRANSPIRATION? A CASE STUDY ON CUCUMIS SATIVUS PLANTS. <i>Acta Horticulturae</i> , 2009, , 127-134.	0.1	0
50	Seasonal effects of deficit irrigation on leaf photosynthetic traits of fruiting and non-fruiting shoots in almond trees. <i>Tree Physiology</i> , 2009, 29, 375-388.	1.4	30
51	Usefulness of establishing trunk diameter based reference lines for irrigation scheduling in almond trees. <i>Irrigation Science</i> , 2009, 27, 431-441.	1.3	39
52	The effects of contrasted deficit irrigation strategies on the fruit growth and kernel quality of mature almond trees. <i>Agricultural Water Management</i> , 2009, 96, 1605-1614.	2.4	70
53	COMPARISON OF ALMOND TREE TRANSPIRATION DETERMINED BY SAP FLOW MEASUREMENTS AND LYSIMETRY. <i>Acta Horticulturae</i> , 2009, , 359-366.	0.1	2
54	MEASURING SAP FLOW IN "TWO ROOT-ONE SHOOT" GRAFTED PLANTS TO MODEL SHOOT XYLEM ABA CONCENTRATION DURING PARTIAL ROOTZONE DRYING. <i>Acta Horticulturae</i> , 2009, , 277-284.	0.1	0

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55	Abscisic acid signalling when soil moisture is heterogeneous: decreased photoperiod sap flow from drying roots limits abscisic acid export to the shoots. <i>Plant, Cell and Environment</i> , 2008, 31, 1263-1274.	2.8	109
56	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. <i>Journal of Experimental Botany</i> , 2008, 59, 4083-4093.	2.4	73
57	Comparison of changes in stem diameter and water potential values for detecting water stress in young almond trees. <i>Agricultural Water Management</i> , 2005, 77, 296-307.	2.4	70