Ignacio J Lorite Torres

List of Publications by Year
in descending order

74 papers	3,437 citations	172207 29 h-index	149479 56 g-index
76 all docs	76 docs citations	76 times ranked	3778 citing authors

#	Article	IF	Citations
1	Satellite-Based Energy Balance for Mapping Evapotranspiration with Internalized Calibration (METRIC)â€"Applications. Journal of Irrigation and Drainage Engineering - ASCE, 2007, 133, 395-406.	0.6	572
2	Regional calibration of Hargreaves equation for estimating reference ET in a semiarid environment. Agricultural Water Management, 2006, 81, 257-281.	2.4	243
3	Diverging importance of drought stress for maize and winter wheat in Europe. Nature Communications, 2018, 9, 4249.	5.8	230
4	Impact of high temperatures in maize: Phenology and yield components. Field Crops Research, 2018, 216, 129-140.	2.3	173
5	An analysis of the tendency of reference evapotranspiration estimates and other climate variables during the last 45 years in Southern Spain. Agricultural Water Management, 2011, 98, 1045-1061.	2.4	133
6	Temperature and precipitation effects on wheat yield across a European transect: a crop model ensemble analysis using impact response surfaces. Climate Research, 2015, 65, 87-105.	0.4	122
7	Estimating actual irrigation application by remotely sensed evapotranspiration observations. Agricultural Water Management, 2010, 97, 1351-1359.	2.4	96
8	Olive Cultivation, its Impact on Soil Erosion and its Progression into Yield Impacts in Southern Spain in the Past as a Key to a Future of Increasing Climate Uncertainty. Agriculture (Switzerland), 2014, 4, 170-198.	1.4	92
9	Integrating satellite-based evapotranspiration with simulation models for irrigation management at the scheme level. Irrigation Science, 2008, 26, 277-288.	1.3	72
10	Modelling the impact of heat stress on maize yield formation. Field Crops Research, 2016, 198, 226-237.	2.3	72
11	Adaptation response surfaces for managing wheat under perturbed climate and CO2 in a Mediterranean environment. Agricultural Systems, 2018, 159, 260-274.	3.2	68
12	Evaluating irrigation performance in a Mediterranean environment. Irrigation Science, 2004, 23, 85-92.	1.3	57
13	Management trends and responses to water scarcity in an irrigation scheme of Southern Spain. Agricultural Water Management, 2008, 95, 458-468.	2.4	57
14	Usefulness of a New Large Set of High Throughput EST-SNP Markers as a Tool for Olive Germplasm Collection Management. Frontiers in Plant Science, 2018, 9, 1320.	1.7	57
15	AquaData and AquaGIS: Two computer utilities for temporal and spatial simulations of water-limited yield with AquaCrop. Computers and Electronics in Agriculture, 2013, 96, 227-237.	3.7	56
16	Impact of changes in mean and extreme temperatures caused by climate change on olive flowering in southern Spain. International Journal of Climatology, 2017, 37, 940-957.	1.5	56
17	Evaluating irrigation performance in a Mediterranean environment. Irrigation Science, 2004, 23, 77-84.	1.3	55
18	Aerodynamic Parameterization of the Satellite-Based Energy Balance (METRIC) Model for ET Estimation in Rainfed Olive Orchards of Andalusia, Spain. Water Resources Management, 2012, 26, 3267-3283.	1.9	53

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19	Using weather forecast data for irrigation scheduling under semi-arid conditions. Irrigation Science, 2015, 33, 411-427.	1.3	53
20	Assessing deficit irrigation strategies at the level of an irrigation district. Agricultural Water Management, 2007, 91, 51-60.	2.4	49
21	An innovative remote sensing based reference evapotranspiration method to support irrigation water management under semi-arid conditions. Agricultural Water Management, 2014, 131, 135-145.	2.4	48
22	Classifying multi-model wheat yield impact response surfaces showing sensitivity to temperature and precipitation change. Agricultural Systems, 2018, 159, 209-224.	3.2	47
23	Evaluation of olive response and adaptation strategies to climate change under semi-arid conditions. Agricultural Water Management, 2018, 204, 247-261.	2.4	44
24	Assessment of the Irrigation Advisory Servicesâ€™ Recommendations and Farmersâ€™ Irrigation Management: A Case Study in Southern Spain. Water Resources Management, 2012, 26, 2397-2419.	1.9	43
25	Performance assessment of an irrigation scheme using indicators determined with remote sensing techniques. Irrigation Science, 2010, 28, 461-477.	1.3	42
26	Water use of irrigated almond trees when subjected to water deficits. Agricultural Water Management, 2018, 195, 84-93.	2.4	41
27	Evaluation of three simulation approaches for assessing yield of rainfed sunflower in a Mediterranean environment for climate change impact modelling. Climatic Change, 2014, 124, 147-162.	1.7	36
28	Transpiration of young almond trees in relation to intercepted radiation. Irrigation Science, 2015, 33, 265-275.	1.3	35
29	Implications of crop model ensemble size and composition for estimates of adaptation effects and agreement of recommendations. Agricultural and Forest Meteorology, 2019, 264, 351-362.	1.9	35
30	Transpiration from canopy temperature: Implications for the assessment of crop yield in almond orchards. European Journal of Agronomy, 2019, 105, 78-85.	1.9	32
31	The role of phenology in the climate change impacts and adaptation strategies for tree crops: a case study on almond orchards in Southern Europe. Agricultural and Forest Meteorology, 2020, 294, 108142.	1.9	30
32	WABOL: A conceptual water balance model for analyzing rainfall water use in olive orchards under different soil and cover crop management strategies. Computers and Electronics in Agriculture, 2013, 91, 35-48.	3.7	28
33	Responses of transpiration and transpiration efficiency of almond trees to moderate water deficits. Scientia Horticulturae, 2017, 225, 6-14.	1.7	28
34	Impact of the spatial resolution on the energy balance components on an open-canopy olive orchard. International Journal of Applied Earth Observation and Geoinformation, 2019, 74, 88-102.	1.4	27
35	Yield response of sunflower to irrigation and fertilization under semi-arid conditions. Agricultural Water Management, 2016, 176, 151-162.	2.4	26
36	Design and Management of Irrigation Systems. Chilean Journal of Agricultural Research, 0, 69, .	0.4	24

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37	Identifying adaptation strategies to climate change for Mediterranean olive orchards using impact response surfaces. Agricultural Systems, 2020, 185, 102937.	3.2	24
38	The Influence of Irrigation Frequency on the Onset and Development of Verticillium Wilt of Olive. Plant Disease, 2015, 99, 488-495.	0.7	22
39	Design and construction of a large weighing lysimeter in an almond orchard. Spanish Journal of Agricultural Research, 2012, 10, 238.	0.3	22
40	Exploring Treated Wastewater Issues Related to Agriculture in Europe, Employing a Quantitative SWOT Analysis. Procedia Economics and Finance, 2015, 33, 367-375.	0.6	21
41	Modeling the response of maize phenology, kernel set, and yield components to heat stress and heat shock with CSM-IXIM. Field Crops Research, 2017, 214, 239-254.	2.3	21
42	Genotype, environment and their interaction effects on olive tree flowering phenology and flower quality. Euphytica, 2019, 215, 1.	0.6	21
43	Assessment of reference evapotranspiration using remote sensing and forecasting tools under semi-arid conditions. International Journal of Applied Earth Observation and Geoinformation, 2014, 33, 280-289.	1.4	20
44	Long-term almond yield response to deficit irrigation. Irrigation Science, 2021, 39, 409-420.	1.3	20
45	Utility of EST-SNP Markers for Improving Management and Use of Olive Genetic Resources: A Case Study at the Worldwide Olive Germplasm Bank of CÃ³rdoba. Plants, 2022, 11, 921.	1.6	20
46	Strategies for adapting maize to climate change and extreme temperatures in Andalusia, Spain. Climate Research, 2015, 65, 159-173.	0.4	19
47	Differences on flowering phenology under Mediterranean and Subtropical environments for two representative olive cultivars. Environmental and Experimental Botany, 2020, 180, 104239.	2.0	18
48	Understanding effects of genotype Ã— environment Ã— sowing window interactions for durum wheat in the Mediterranean basin. Field Crops Research, 2020, 259, 107969.	2.3	18
49	Quantifying sustainable intensification of agriculture: The contribution of metrics and modelling. Ecological Indicators, 2021, 129, 107870.	2.6	18
50	Uncertainty in estimating reference evapotranspiration using remotely sensed and forecasted weather data under the climatic conditions of Southern Spain. International Journal of Climatology, 2015, 35, 3371-3384.	1.5	17
51	Assessing reference evapotranspiration at regional scale based on remote sensing, weather forecast and GIS tools. International Journal of Applied Earth Observation and Geoinformation, 2017, 55, 32-42.	1.4	17
52	Yield response of almond trees to transpiration deficits. Irrigation Science, 2018, 36, 111-120.	1.3	17
53	Irrigation Water Management in Latin America. Chilean Journal of Agricultural Research, 0, 69, .	0.4	15
54	Assessing irrigation scheme water use and farmersâ€™ performance using wireless telemetry systems. Computers and Electronics in Agriculture, 2013, 98, 193-204.	3.7	15

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55	Evaluating the impact of adjusting surface temperature derived from Landsat 7 ETM+ in crop evapotranspiration assessment using high-resolution airborne data. International Journal of Remote Sensing, 2017, 38, 4177-4205.	1.3	15
56	Phenological diversity in a World Olive Germplasm Bank: Potential use for breeding programs and climate change studies. Spanish Journal of Agricultural Research, 2020, 18, e0701.	0.3	15
57	Impact of spatial and temporal aggregation of input parameters on the assessment of irrigation scheme performance. Journal of Hydrology, 2005, 300, 286-299.	2.3	13
58	Water requirements of mature almond trees in response to atmospheric demand. Irrigation Science, 2018, 36, 271-280.	1.3	13
59	Almond tree response to a change in wetted soil volume under drip irrigation. Agricultural Water Management, 2018, 202, 57-65.	2.4	12
60	Modeling to Evaluate and Manage Climate Change Effects on Water Use in Mediterranean Olive Orchards with Respect to Cover Crops and Tillage Management. Advances in Agricultural Systems Modeling, 2015, , 237-265.	0.3	11
61	Water Management and Climate Change in Semiarid Environments. , 2018, , 3-40.		11
62	Water Stress Enhances the Progression of Branch Dieback and Almond Decline under Field Conditions. Plants, 2020, 9, 1213.	1.6	11
63	METRIC-GIS: An advanced energy balance model for computing crop evapotranspiration in a GIS environment. Environmental Modelling and Software, 2020, 131, 104770.	1.9	10
64	Uncertainty in climate change impact studies for irrigated maize cropping systems in southern Spain. Scientific Reports, 2022, 12, 4049.	1.6	9
65	Effect of the irrigation dose on Verticillium wilt of olive. Scientia Horticulturae, 2015, 197, 564-567.	1.7	6
66	Methodology to assess the changing risk of yield failure due to heat and drought stress under climate change. Environmental Research Letters, 2021, 16, 104033.	2.2	6
67	Enhancing the sustainability of Mediterranean olive groves through adaptation measures to climate change using modelling and response surfaces. Agricultural and Forest Meteorology, 2022, 313, 108742.	1.9	6
68	Improving the sustainability of farming systems under semi-arid conditions by enhancing crop management. Agricultural Water Management, 2019, 223, 105718.	2.4	5
69	Almond responses to a single season of severe irrigation water restrictions. Irrigation Science, 2022, 40, 1-11.	1.3	5
70	Estimating the Soil Surface Evaporation and Transpiration Components from Satellite Images in the Absence of a Thermal Band. , 2008, , .		4
71	Flowering phenology and flower quality of cultivars â€˜Arbequinaâ€™, â€˜Koroneikiâ€™ and â€˜Picualâ€™ in different environments of southern Spain. Acta Horticulturae, 2018, , 257-262.	0.1	4
72	Impact of climate change on economic components of Mediterranean olive orchards. Agricultural Water Management, 2021, 248, 106760.	2.4	2

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73	Integration of satellite-based energy balance with simulation models applied to irrigation management at an irrigation scheme of southern Spain. Proceedings of SPIE, 2007, , .	0.8	0
74	ASSESING ALMOND ORCHARD WATER USE: EVALUATION OF METHODS. Acta Horticulturae, 2014, , 341-345.	0.1	0