Virginia Hernandez-Santana

List of Publications by Year
in descending order

56	1,735	331538	289141
papers	citations	21 h-index	40 g-index

57	57	57	2259
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Water use indicators and economic analysis for on-farm irrigation decision: A case study of a super high density olive tree orchard. Agricultural Water Management, 2020, 237, 106074.	2.4	237
2	Targeting perennial vegetation in agricultural landscapes for enhancing ecosystem services. Renewable Agriculture and Food Systems, 2014, 29, 101-125.	0.8	206
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	A regulated deficit irrigation strategy for hedgerow olive orchards with high plant density. Plant and Soil, 2013, 372, 279-295.	1.8	110
5	Role of hydraulic and chemical signals in leaves, stems and roots in the stomatal behaviour of olive trees under water stress and recovery conditions. Tree Physiology, 2015, 35, 415-424.	1.4	74
6	Native prairie filter strips reduce runoff from hillslopes under annual row-crop systems in Iowa, USA. Journal of Hydrology, 2013, 477, 94-103.	2.3	67
7	Global transpiration data from sap flow measurements: the SAPFLUXNET database. Earth System Science Data, 2021, 13, 2607-2649.	3.7	65
8	The dynamics of radial sap flux density reflects changes in stomatal conductance in response to soil and air water deficit. Agricultural and Forest Meteorology, 2016, 218-219, 92-101.	1.9	58
9	Scheduling regulated deficit irrigation in a hedgerow olive orchard from leaf turgor pressure related measurements. Agricultural Water Management, 2016, 164, 28-37.	2.4	54
10	Role of leaf hydraulic conductance in the regulation of stomatal conductance in almond and olive in response to water stress. Tree Physiology, 2016, 36, 725-735.	1.4	52
11	Photosynthetic limitations by water deficit: Effect on fruit and olive oil yield, leaf area and trunk diameter and its potential use to control vegetative growth of super-high density olive orchards. Agricultural Water Management, 2017, 184, 9-18.	2.4	50
12	Plant functional trait responses to interannual rainfall variability, summer drought and seasonal grazing in Mediterranean herbaceous communities. Functional Ecology, 2012, 26, 740-749.	1.7	45
13	Leaf water potential measurements using the pressure chamber: Synthetic testing of assumptions towards best practices for precision and accuracy. Plant, Cell and Environment, 2022, 45, 2037-2061.	2.8	40
14	Environmental and plant-based controls of water use in a Mediterranean oak stand. Forest Ecology and Management, 2008, 255, 3707-3715.	1.4	39
15	Scaling from single-point sap velocity measurements to stand transpiration in a multispecies deciduous forest: uncertainty sources, stand structure effect, and future scenarios. Canadian Journal of Forest Research, 2015, 45, 1489-1497.	0.8	39
16	Response of Quercus pyrenaica (melojo oak) to soil water deficit: a case study in Spain. European Journal of Forest Research, 2008, 127, 369-378.	1.1	38
17	Variability of the radial profile of sap velocity in Pinus patula from contrasting stands within the seasonal cloud forest zone of Veracruz, Mexico. Agricultural and Forest Meteorology, 2013, 168, 108-119.	1.9	36
18	Enhanced transpiration by riparian buffer trees in response to advection in a humid temperate agricultural landscape. Forest Ecology and Management, 2011, 261, 1415-1427.	1.4	31

#	ARTICLE	IF	CITATIONS
19	Evaluating the effect of drier and warmer conditions on water use by Quercus pyrenaica. Forest Ecology and Management, 2009, 258, 1719-1730.	1.4	28
20	Effects of water stress on fruit growth and water relations between fruits and leaves in a hedgerow olive orchard. Agricultural Water Management, 2018, 210, 32-40.	2.4	28
21	Water status, gas exchange and crop performance in a super high density olive orchard under deficit irrigation scheduled from leaf turgor measurements. Agricultural Water Management, 2018, 202, 241-252.	2.4	25
22	Sensitivity of olive leaf turgor to air vapour pressure deficit correlates with diurnal maximum stomatal conductance. Agricultural and Forest Meteorology, 2019, 272-273, 156-165.	1.9	23
23	Relationships between fruit growth and oil accumulation with simulated seasonal dynamics of leaf gas exchange in the olive tree. Agricultural and Forest Meteorology, 2018, 256-257, 458-469.	1.9	18
24	Disentangling the link between leaf photosynthesis and turgor in fruit growth. Plant Journal, 2021, 107, 1788-1801.	2.8	18
25	Tree growth patterns and diagnosis of water status based on trunk diameter fluctuations in fast-growing Populus tomentosa plantations. Agricultural Water Management, 2020, 241, 106348.	2.4	16
26	Understanding the relationship between biomass production and water use of Populus tomentosa trees throughout an entire short-rotation. Agricultural Water Management, 2021, 246, 106710.	2.4	15
27	Precision Irrigation in Olive (Olea europaea L.) Tree Orchards. , 2018, , 179-217.		13
28	Drought Differentially Affects Growth, Transpiration, and Water Use Efficiency of Mixed and Monospecific Planted Forests. Forests, 2019, 10, 153.	0.9	13
29	Hydraulic Traits Emerge as Relevant Determinants of Growth Patterns in Wild Olive Genotypes Under Water Stress. Frontiers in Plant Science, 2019, 10, 291.	1.7	13
30	Estimation of tree water stress from stem and soil water monitoring with timeâ€domain reflectometry in two small forested basins in Spain. Hydrological Processes, 2008, 22, 2493-2501.	1.1	12
31	TDR measurement of stem and soil water content in two Mediterranean oak species. Hydrological Sciences Journal, 2008, 53, 921-931.	1.2	11
32	Classification models for automatic identification of daily states from leaf turgor related measurements in olive. Computers and Electronics in Agriculture, 2017, 142, 181-189.	3.7	11
33	The phloemâ€“xylem consortium: until death do them part. Tree Physiology, 2017, 37, 847-850.	1.4	10
34	The Olive Tree Under Water Stress. , 2018, , 439-479.		10
35	Cultivar Dependent Impact on Yield and Its Components of Young Almond Trees under Sustained-Deficit Irrigation in Semi-Arid Environments. Agronomy, 2020, 10, 733.	1.3	10
36	LOSS OF HYDRAULIC FUNCTIONING AT LEAF, STEM AND ROOT LEVEL AND ITS ROLE IN THE STOMATAL BEHAVIOUR DURING DROUGHT IN OLIVE TREES. Acta Horticulturae, 2013, , 333-339.	0.1	8

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37	Assessing the Water-Stress Baselines by Thermal Imaging for Irrigation Management in Almond Plantations under Water Scarcity Conditions. Water (Switzerland), 2020, 12, 1298.	1.2	8
38	Procesos hidrolÃ³gicos en una cuenca forestal del Sistema Central : cuenca experimental de Rinconada. Cuadernos De Investigacion Geografica, 0, 31, 7-25.	0.6	8
39	Irrigation Advisory Services: Farmers preferences and willingness to pay for innovation. Outlook on Agriculture, 2021, 50, 277-285.	1.8	7
40	Evaluation of method to model stomatal conductance and its use to assess biomass increase in poplar trees. Agricultural Water Management, 2022, 259, 107228.	2.4	7
41	WatchPlant: Networked Bio-hybrid Systems for Pollution Monitoring of Urban Areas. , 2021, , .		5
42	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
43	New approaches for precise irrigation in hedgerow olive orchards. Acta Horticulturae, 2018, , 225-240.	0.1	4
44	Drought Effects on Tectona grandis Water Regulation Are Mediated by Thinning, but the Effects of Thinning Are Temporary. Frontiers in Forests and Global Change, 2019, 2, .	1.0	4
45	Carbon supply and water status regulate fatty acid and triacylglycerol biosynthesis at transcriptional level in the olive mesocarp. Plant, Cell and Environment, 2022, 45, 2366-2380.	2.8	4
46	Soil water reserve estimation and vegetation relationships in a Mediterranean sub-humid forested catchment. Hydrology Research, 2012, 43, 167-178.	1.1	3
47	Irrigation scheduling in a high-density olive orchard from estimated stomatal conductance. Acta Horticulturae, 2019, , 449-456.	0.1	3
48	Does precision irrigation help to reduce water consumption in agriculture?. Acta Horticulturae, 2019, , 199-206.	0.1	3
49	Differential and dynamic water regulation responses to El NiÃ±o for monospecific and mixed species planted forests. Ecohydrology, 2020, 13, e2238.	1.1	3
50	EFFECTS OF THINNING ON TRANSPIRATION BY RIPARIAN BUFFER TREES IN RESPONSE TO ADVECTION AND SOLAR RADIATION. Acta Horticulturae, 2012, , 225-231.	0.1	3
51	Effects of cork oak stripping on tree carbon and water fluxes. Forest Ecology and Management, 2021, 486, 118966.	1.4	2
52	Biohybrid systems for environmental intelligence on living plants. , 2021, , .		2
53	LINKING CHANGES IN RADIAL PROFILES OF SAP FLUX DENSITY WITH THE RESPONSE OF WATER VAPOUR EXCHANGE TO WATER DEFICIT. Acta Horticulturae, 2013, , 189-196.	0.1	0
54	TrascolaciÃ³n y pÃ©rdidas por interceptaciÃ³n en un bosque de roble melojo del Sistema Central. Cuadernos De Investigacion Geografica, 2008, 34, 7.	0.6	0

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55	Sap flow as a tool to enhance fruit quality: the case of olive oil. Acta Horticulturae, 2020, , 13-20.	0.1	0
56	Water productivity and economic analyses for super high density olive orchards. Acta Horticulturae, 2022, , 395-402.	0.1	0