

Virginia Hernandez-Santana

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,735
citations

331538

21
h-index

289141

40
g-index

57
all docs

57
docs citations

57
times ranked

2259
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of method to model stomatal conductance and its use to assess biomass increase in poplar trees. <i>Agricultural Water Management</i> , 2022, 259, 107228.	2.4	7
2	Water productivity and economic analyses for super high density olive orchards. <i>Acta Horticulturae</i> , 2022, , 395-402.	0.1	0
3	Leaf water potential measurements using the pressure chamber: Synthetic testing of assumptions towards best practices for precision and accuracy. <i>Plant, Cell and Environment</i> , 2022, 45, 2037-2061.	2.8	40
4	Carbon supply and water status regulate fatty acid and triacylglycerol biosynthesis at transcriptional level in the olive mesocarp. <i>Plant, Cell and Environment</i> , 2022, 45, 2366-2380.	2.8	4
5	WatchPlant: Networked Bio-hybrid Systems for Pollution Monitoring of Urban Areas. , 2021, , .		5
6	Understanding the relationship between biomass production and water use of <i>Populus tomentosa</i> trees throughout an entire short-rotation. <i>Agricultural Water Management</i> , 2021, 246, 106710.	2.4	15
7	Irrigation Advisory Services: Farmers preferences and willingness to pay for innovation. <i>Outlook on Agriculture</i> , 2021, 50, 277-285.	1.8	7
8	Effects of cork oak stripping on tree carbon and water fluxes. <i>Forest Ecology and Management</i> , 2021, 486, 118966.	1.4	2
9	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	3.7	65
10	Disentangling the link between leaf photosynthesis and turgor in fruit growth. <i>Plant Journal</i> , 2021, 107, 1788-1801.	2.8	18
11	Biohybrid systems for environmental intelligence on living plants. , 2021, , .		2
12	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
13	Differential and dynamic water regulation responses to El Niño for monospecific and mixed species planted forests. <i>Ecohydrology</i> , 2020, 13, e2238.	1.1	3
14	Cultivar Dependent Impact on Yield and Its Components of Young Almond Trees under Sustained-Deficit Irrigation in Semi-Arid Environments. <i>Agronomy</i> , 2020, 10, 733.	1.3	10
15	Assessing the Water-Stress Baselines by Thermal Imaging for Irrigation Management in Almond Plantations under Water Scarcity Conditions. <i>Water (Switzerland)</i> , 2020, 12, 1298.	1.2	8
16	Water use indicators and economic analysis for on-farm irrigation decision: A case study of a super high density olive tree orchard. <i>Agricultural Water Management</i> , 2020, 237, 106074.	2.4	237
17	Tree growth patterns and diagnosis of water status based on trunk diameter fluctuations in fast-growing <i>Populus tomentosa</i> plantations. <i>Agricultural Water Management</i> , 2020, 241, 106348.	2.4	16
18	Sap flow as a tool to enhance fruit quality: the case of olive oil. <i>Acta Horticulturae</i> , 2020, , 13-20.	0.1	0

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19	Drought Differentially Affects Growth, Transpiration, and Water Use Efficiency of Mixed and Monospecific Planted Forests. <i>Forests</i> , 2019, 10, 153.	0.9	13
20	Sensitivity of olive leaf turgor to air vapour pressure deficit correlates with diurnal maximum stomatal conductance. <i>Agricultural and Forest Meteorology</i> , 2019, 272-273, 156-165.	1.9	23
21	Hydraulic Traits Emerge as Relevant Determinants of Growth Patterns in Wild Olive Genotypes Under Water Stress. <i>Frontiers in Plant Science</i> , 2019, 10, 291.	1.7	13
22	Irrigation scheduling in a high-density olive orchard from estimated stomatal conductance. <i>Acta Horticulturae</i> , 2019, , 449-456.	0.1	3
23	Drought Effects on <i>Tectona grandis</i> Water Regulation Are Mediated by Thinning, but the Effects of Thinning Are Temporary. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	4
24	Does precision irrigation help to reduce water consumption in agriculture?. <i>Acta Horticulturae</i> , 2019, , 199-206.	0.1	3
25	Relationships between fruit growth and oil accumulation with simulated seasonal dynamics of leaf gas exchange in the olive tree. <i>Agricultural and Forest Meteorology</i> , 2018, 256-257, 458-469.	1.9	18
26	Water status, gas exchange and crop performance in a super high density olive orchard under deficit irrigation scheduled from leaf turgor measurements. <i>Agricultural Water Management</i> , 2018, 202, 241-252.	2.4	25
27	New approaches for precise irrigation in hedgerow olive orchards. <i>Acta Horticulturae</i> , 2018, , 225-240.	0.1	4
28	Precision Irrigation in Olive (<i>Olea europaea</i> L.) Tree Orchards. , 2018, , 179-217.		13
29	The Olive Tree Under Water Stress. , 2018, , 439-479.		10
30	Effects of water stress on fruit growth and water relations between fruits and leaves in a hedgerow olive orchard. <i>Agricultural Water Management</i> , 2018, 210, 32-40.	2.4	28
31	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. <i>Agricultural Water Management</i> , 2017, 184, 9-18.	2.4	50
32	Classification models for automatic identification of daily states from leaf turgor related measurements in olive. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 181-189.	3.7	11
33	The phloem-xylem consortium: until death do them part. <i>Tree Physiology</i> , 2017, 37, 847-850.	1.4	10
34	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
35	Role of leaf hydraulic conductance in the regulation of stomatal conductance in almond and olive in response to water stress. <i>Tree Physiology</i> , 2016, 36, 725-735.	1.4	52
36	The dynamics of radial sap flux density reflects changes in stomatal conductance in response to soil and air water deficit. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 92-101.	1.9	58

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37	Scheduling regulated deficit irrigation in a hedgerow olive orchard from leaf turgor pressure related measurements. <i>Agricultural Water Management</i> , 2016, 164, 28-37.	2.4	54
38	Scaling from single-point sap velocity measurements to stand transpiration in a multispecies deciduous forest: uncertainty sources, stand structure effect, and future scenarios. <i>Canadian Journal of Forest Research</i> , 2015, 45, 1489-1497.	0.8	39
39	Role of hydraulic and chemical signals in leaves, stems and roots in the stomatal behaviour of olive trees under water stress and recovery conditions. <i>Tree Physiology</i> , 2015, 35, 415-424.	1.4	74
40	Targeting perennial vegetation in agricultural landscapes for enhancing ecosystem services. <i>Renewable Agriculture and Food Systems</i> , 2014, 29, 101-125.	0.8	206
41	A regulated deficit irrigation strategy for hedgerow olive orchards with high plant density. <i>Plant and Soil</i> , 2013, 372, 279-295.	1.8	110
42	Variability of the radial profile of sap velocity in <i>Pinus patula</i> from contrasting stands within the seasonal cloud forest zone of Veracruz, Mexico. <i>Agricultural and Forest Meteorology</i> , 2013, 168, 108-119.	1.9	36
43	Native prairie filter strips reduce runoff from hillslopes under annual row-crop systems in Iowa, USA. <i>Journal of Hydrology</i> , 2013, 477, 94-103.	2.3	67
44	LINKING CHANGES IN RADIAL PROFILES OF SAP FLUX DENSITY WITH THE RESPONSE OF WATER VAPOUR EXCHANGE TO WATER DEFICIT. <i>Acta Horticulturae</i> , 2013, , 189-196.	0.1	0
45	LOSS OF HYDRAULIC FUNCTIONING AT LEAF, STEM AND ROOT LEVEL AND ITS ROLE IN THE STOMATAL BEHAVIOUR DURING DROUGHT IN OLIVE TREES. <i>Acta Horticulturae</i> , 2013, , 333-339.	0.1	8
46	Soil water reserve estimation and vegetation relationships in a Mediterranean sub-humid forested catchment. <i>Hydrology Research</i> , 2012, 43, 167-178.	1.1	3
47	Plant functional trait responses to interannual rainfall variability, summer drought and seasonal grazing in Mediterranean herbaceous communities. <i>Functional Ecology</i> , 2012, 26, 740-749.	1.7	45
48	EFFECTS OF THINNING ON TRANSPIRATION BY RIPARIAN BUFFER TREES IN RESPONSE TO ADVECTION AND SOLAR RADIATION. <i>Acta Horticulturae</i> , 2012, , 225-231.	0.1	3
49	Enhanced transpiration by riparian buffer trees in response to advection in a humid temperate agricultural landscape. <i>Forest Ecology and Management</i> , 2011, 261, 1415-1427.	1.4	31
50	Evaluating the effect of drier and warmer conditions on water use by <i>Quercus pyrenaica</i> . <i>Forest Ecology and Management</i> , 2009, 258, 1719-1730.	1.4	28
51	Response of <i>Quercus pyrenaica</i> (melojo oak) to soil water deficit: a case study in Spain. <i>European Journal of Forest Research</i> , 2008, 127, 369-378.	1.1	38
52	Estimation of tree water stress from stem and soil water monitoring with time-domain reflectometry in two small forested basins in Spain. <i>Hydrological Processes</i> , 2008, 22, 2493-2501.	1.1	12
53	Environmental and plant-based controls of water use in a Mediterranean oak stand. <i>Forest Ecology and Management</i> , 2008, 255, 3707-3715.	1.4	39
54	TDR measurement of stem and soil water content in two Mediterranean oak species. <i>Hydrological Sciences Journal</i> , 2008, 53, 921-931.	1.2	11

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55	Trascolación y pérdidas por interceptación en un bosque de roble melojo del Sistema Central. Cuadernos De Investigacion Geografica, 2008, 34, 7.	0.6	0
56	Procesos hidrológicos en una cuenca forestal del Sistema Central : cuenca experimental de Rinconada. Cuadernos De Investigacion Geografica, 0, 31, 7-25.	0.6	8