JosÃ© M MirÃ¡s-Avalos

List of Publications by Year
in descending order

89 papers	1,439 citations	331538 21 h-index	434063 31 g-index
90 all docs	90 docs citations	90 times ranked	1533 citing authors

#	Article	IF	Citations
1	Grape Composition under Abiotic Constrains: Water Stress and Salinity. Frontiers in Plant Science, 2017, 8, 851.	1.7	84
2	The influence of tillage on the structure of rhizosphere and root-associated arbuscular mycorrhizal fungal communities. Pedobiologia, 2011, 54, 235-241.	0.5	52
3	Optimization of Vineyard Water Management: Challenges, Strategies, and Perspectives. Water (Switzerland), 2021, 13, 746.	1.2	49
4	Challenges of viticulture adaptation to global change: tackling the issue from the roots. Australian Journal of Grape and Wine Research, 2021, 27, 8-25.	1.0	46
5	Effects of irrigation over three years on the amino acid composition of Treixadura (Vitis vinifera L.) musts and wines, and on the aromatic composition and sensory profiles of its wines. Food Chemistry, 2018, 240, 707-716.	4.2	45
6	Combined effects of irrigation, crop load and fruit position on size, color and firmness of fruits in an extra-early cultivar of peach. Scientia Horticulturae, 2012, 142, 128-135.	1.7	42
7	Using midday stem water potential for scheduling deficit irrigation in midâ€“late maturing peach trees under Mediterranean conditions. Irrigation Science, 2016, 34, 161-173.	1.3	42
8	Determination of the quality index of a Paleudult under sunflower culture and different management systems. Soil and Tillage Research, 2011, 112, 167-174.	2.6	41
9	Discrimination ability of leaf and stem water potential at different times of the day through a meta-analysis in grapevine (Vitis vinifera L.). Agricultural Water Management, 2019, 221, 202-210.	2.4	40
10	Effects of deficit irrigation on the performance of grapevine (Vitis vinifera L.) cv. â€˜Godelloâ€™ and â€˜Treixaduraâ€™ in Ribeiro, NW Spain. Agricultural Water Management, 2015, 161, 20-30.	2.4	39
11	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
12	Effects of irrigation and fruit position on size, colour, firmness and sugar contents of fruits in a mid-late maturing peach cultivar. Scientia Horticulturae, 2013, 164, 340-347.	1.7	35
13	Effects of climate variability on irrigation scheduling in white varieties of Vitis vinifera (L.) of NW Spain. Agricultural Water Management, 2016, 170, 99-109.	2.4	35
14	Disentangling the Effects of Water Stress on Carbon Acquisition, Vegetative Growth, and Fruit Quality of Peach Trees by Means of the QualiTree Model. Frontiers in Plant Science, 2018, 9, 3.	1.7	35
15	Fermentative aroma compounds and sensory profiles of Godello and AlbariÃ±o wines as influenced by Saccharomyces cerevisiae yeast strains. Journal of the Science of Food and Agriculture, 2013, 93, 2849-2857.	1.7	33
16	Water Management Using Drones and Satellites in Agriculture. Water (Switzerland), 2019, 11, 874.	1.2	29
17	Mapping vineyard vigor using airborne remote sensing: relations with yield, berry composition and sanitary status under humid climate conditions. Precision Agriculture, 2020, 21, 178-197.	3.1	29
18	Assessment of the water stress effects on peach fruit quality and size using a fruit tree model, QualiTree. Agricultural Water Management, 2013, 128, 1-12.	2.4	27

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19	Soil management in semi-arid vineyards: Combined effects of organic mulching and no-tillage under different water regimes. European Journal of Agronomy, 2021, 123, 126198.	1.9	27
20	Water Versus Sourceâ€“Sink Relationships in a Semiarid Tempranillo Vineyard: Vine Performance and Fruit Composition. American Journal of Enology and Viticulture, 2017, 68, 11-22.	0.9	26
21	Effect of must characteristics on the diversity of Saccharomyces strains and their prevalence in spontaneous fermentations. Journal of Applied Microbiology, 2012, 112, 936-944.	1.4	22
22	Effects of irrigation over three years on the amino acid composition of AlbariÃ±o (Vitis vinifera L) musts and wines in two different terroirs. Scientia Horticulturae, 2018, 227, 313-325.	1.7	21
23	Influence of supplementary irrigation on the amino acid and volatile composition of Godello wines from the Ribeiro Designation of Origin. Food Research International, 2018, 111, 715-723.	2.9	21
24	Mapping monthly rainfall data in Galicia (NW Spain) using inverse distances and geostatistical methods. Advances in Geosciences, 0, 10, 51-57.	12.0	21
25	Multifractal Analysis of Soil Properties along Two Perpendicular Transects. Vadose Zone Journal, 2013, 12, 1-13.	1.3	20
26	A Novel ArcGIS Toolbox for Estimating Crop Water Demands by Integrating the Dual Crop Coefficient Approach with Multi-Satellite Imagery. Water (Switzerland), 2019, 11, 38.	1.2	20
27	Irrigation-Advisorâ€”A Decision Support System for Irrigation of Vegetable Crops. Water (Switzerland), 2019, 11, 2245.	1.2	19
28	Amino Acid Profiles to Differentiate White Wines from Three Autochtonous Galician Varieties. Foods, 2020, 9, 114.	1.9	19
29	Inoculation of Treixadura musts with autochthonousSaccharomyces cerevisiaestrains: Fermentative performance and influence on the wine characteristics. Food Science and Technology International, 2013, 19, 177-186.	1.1	18
30	Effects of regulated deficit irrigation on physiology, yield and fruit quality in apricot trees under Mediterranean conditions. Spanish Journal of Agricultural Research, 2016, 14, e1205.	0.3	18
31	Crop Residue Effects on Organic Carbon, Nitrogen, and Phosphorus Concentrations and Loads in Runoff Water. Communications in Soil Science and Plant Analysis, 2009, 40, 200-213.	0.6	17
32	Consistency analysis of pluviometric information in Galicia (NW Spain). Atmospheric Research, 2009, 94, 629-640.	1.8	17
33	Influence of cover crop treatments on the performance of a vineyard in a humid region. Spanish Journal of Agricultural Research, 2015, 13, e0907.	0.3	17
34	Reference values of maximum daily trunk shrinkage for irrigation scheduling in mid-late maturing peach trees. Agricultural Water Management, 2016, 171, 31-39.	2.4	16
35	Influence of Soil Management on the Red Grapevine (Vitis vinifera L.) MencÃa Must Amino Acid Composition and Wine Volatile and Sensory Profiles in a Humid Region. Beverages, 2018, 4, 76.	1.3	15
36	Agronomic Practices for Reducing Soil Erosion in Hillside Vineyards under Atlantic Climatic Conditions (Galicia, Spain). Soil Systems, 2020, 4, 19.	1.0	15

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37	Estimating soil organic matter using interpolation methods with a electromagnetic induction sensor and topographic parameters: a case study in a humid region. Precision Agriculture, 2017, 18, 882-897.	3.1	14
38	Combined effects of water stress and fruit thinning on fruit and vegetative growth of a very early-maturing peach cultivar: assessment by means of a fruit tree model, QualiTree. Irrigation Science, 2013, 31, 1039-1051.	1.3	13
39	Spatial variability of soil penetration resistance influenced by season of sampling. Bragantia, 2010, 69, 163-173.	1.3	12
40	Multifractal Analysis of Vertical Profiles of Soil Penetration Resistance at Varying Water Contents. Vadose Zone Journal, 2016, 15, 1-10.	1.3	12
41	Maximum daily trunk shrinkage for estimating water needs and scheduling regulated deficit irrigation in peach trees. Irrigation Science, 2017, 35, 69-82.	1.3	12
42	Modeling grapevine performance with â€˜VitiSimâ€™, a weather-based carbon balance model: Water status and climate change scenarios. Scientia Horticulturae, 2018, 240, 561-571.	1.7	12
43	Infection of Beauveria bassiana and Cordyceps javanica on different immature stages of Duponchelia fovealis Zeller (Lepidoptera: Crambidae). Crop Protection, 2020, 138, 105347.	1.0	12
44	Evolution of the Aroma of Treixadura Wines during Bottle Aging. Foods, 2020, 9, 1419.	1.9	12
45	Zoning of a Newly-Planted Vineyard: Spatial Variability of Physico-Chemical Soil Properties. Soil Systems, 2020, 4, 62.	1.0	12
46	Effects of different soil tillage systems and coverages on soybean crop in the Botucatu Region in Brazil. Spanish Journal of Agricultural Research, 2009, 7, 173.	0.3	12
47	Compatibility between Entomopathogenic Fungi and Egg Parasitoids (Trichogrammatidae): A Laboratory Study for Their Combined Use to Control Duponchelia fovealis. Insects, 2020, 11, 630.	1.0	11
48	Effects of Two Different Irrigation Systems on the Amino Acid Concentrations, Volatile Composition and Sensory Profiles of Godello Musts and Wines. Foods, 2019, 8, 135.	1.9	10
49	Effects of soil type on vineyard performance and berry composition in the RÃo de la Plata Coast (Uruguay). Oeno One, 2017, 51, .	0.7	10
50	Phosphorus Contents and Loads at the Outlet of an Agroforestry Catchment in Northwestern Spain. Communications in Soil Science and Plant Analysis, 2009, 40, 660-671.	0.6	9
51	Concentrated flow erosion as a main source of sediments in Galicia, Spain. Earth Surface Processes and Landforms, 2009, 34, 2087-2095.	1.2	9
52	Irrigation effects on the sensory perception of wines from three white grapevine cultivars traditional from Galicia (AlbariÃ±o, Godello and Treixadura). Ciencia E Tecnica Vitivinicola, 2014, 29, 71-80.	0.3	9
53	Amino Acids Profile of Two Galician White Grapevine Cultivars (Godello and Treixadura). Ciencia E Tecnica Vitivinicola, 2015, 30, 84-93.	0.3	9
54	Coupling epidemiological and tree growth models to control fungal diseases spread in fruit orchards. Scientific Reports, 2019, 9, 8519.	1.6	9

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55	Row orientation effects on potted-vines performance and water-use efficiency. Agricultural and Forest Meteorology, 2020, 294, 108148.	1.9	9
56	Irrigation effects on the performance of grapevine (Vitis vinifera L.) cv. â€˜AlbariÃ±oâ€™ under the humid climate of Galicia. Oeno One, 2017, 50, .	0.7	9
57	Crop Residue Effects on Calcium, Magnesium, Potassium, and Sodium Runoff Losses from a Soil Prone to Crusting. Communications in Soil Science and Plant Analysis, 2012, 43, 315-323.	0.6	8
58	Data quality assessment and monthly stability of ground solar radiation in Galicia (NW Spain). Solar Energy, 2012, 86, 3499-3511.	2.9	8
59	Estimation of the daily water consumption by maize under Atlantic climatic conditions (A CoruÃ±a, NW) Tj ETQq1 1 0.784314 rgBT /Ov Sciences, 2012, 12, 709-714.	1.5	8
60	Multifractal behaviour of the soil water content of a vineyard in northwestÂSpain during two growing seasons. Nonlinear Processes in Geophysics, 2016, 23, 205-213.	0.6	8
61	Irrigation effects on the volatile composition and sensory profile of AlbariÃ±o wines from two different terroirs. European Food Research and Technology, 2019, 245, 2157-2171.	1.6	8
62	Unravelling the effects of berry size on â€˜Tempranilloâ€™ grapes under different field practices. Ciencia E Tecnica Vitivinicola, 2019, 34, 1-14.	0.3	8
63	Modulation of chemical and sensory characteristics of red wine from MencÃa by using indigenous Saccharomyces cerevisiae yeast strains. Oeno One, 2016, 48, 63.	0.7	8
64	Does predawn water potential discern between irrigation treatments in Galician white grapevine cultivars?. Oeno One, 2016, 48, 123.	0.7	8
65	Mapping Soil Texture Using Geostatistical Interpolation Combined With Electromagnetic Induction Measurements. Soil Science, 2017, 182, 278-284.	0.9	7
66	Effects of leaning grapevine canopy to the West on water use efficiency and yield under Mediterranean conditions. Agricultural and Forest Meteorology, 2020, 295, 108166.	1.9	7
67	The effects of applied crop residues on losses of Fe, Mn, Cu and Zn in runâ€off from a soil prone to crusting. Soil Use and Management, 2009, 25, 193-200.	2.6	6
68	Influence of irrigation on consumer acceptability of AlbariÃ±o and Godello wines. LWT - Food Science and Technology, 2017, 85, 345-352.	2.5	6
69	Effects of surface and subsurface drip irrigation on physiology and yield of â€˜Godelloâ€™ grapevines grown in Galicia, NW Spain. Ciencia E Tecnica Vitivinicola, 2017, 32, 42-52.	0.3	6
70	Assessment of Solar Irradiation Models in A CoruÃ±a by Multifractal Analysis. Vadose Zone Journal, 2013, 12, 1-10.	1.3	5
71	PRODUÃ‡ÃƒO E DEPOSIÃ‡ÃƒO DE SEDIMENTOS EM UMA SUB-BACIA HIDROGRÃFICA COM SOLOS SUSCETÃVEIS Ã€ EROSÃƒO. Irriga, 2016, 21, 284.	0.2	4
72	Crop Residue Effects on Total and Dissolved Losses of Fe, Mn, Cu, and Zn by Runoff. Communications in Soil Science and Plant Analysis, 2015, 46, 272-282.	0.6	3

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73	Seasonal variation of macro and micronutrients in blades and petioles of Vitis vinifera L. cv. MencÃa and SousÃ³n. Journal of Plant Nutrition and Soil Science, 2018, 181, 498-515.	1.1	3
74	Oscillation of Three Phosphorus Forms and Suspended Solids Content from 1999 to 2007 in a Spanish Agroforestry Catchment under Atlantic Climate. Communications in Soil Science and Plant Analysis, 2012, 43, 288-298.	0.6	2
75	Concentrations of Three Different Carbon Forms in Surface Waters from an Agroforestry Catchment in Northwest Spain. Communications in Soil Science and Plant Analysis, 2013, 44, 404-414.	0.6	2
76	Temporal Oscillation and Losses of Three Carbon Forms in a Microcatchment of NW Spain. Communications in Soil Science and Plant Analysis, 2015, 46, 296-308.	0.6	2
77	Editorial: Agroecosystems Facing Global Climate Change: The Search for Sustainability. Frontiers in Environmental Science, 2018, 6, .	1.5	2
78	Chemical composition and sensory properties of AlbariÃ±o wine: Fertigation effects. Food Research International, 2020, 137, 109533.	2.9	2
79	Assessing the effects of water stress on peach fruit quality and size using the QualiTree model. Acta Horticulturae, 2020, , 539-546.	0.1	2
80	Short communication: Sublethal effects of insecticides used in strawberry on Trichogramma pretiosum (Hymenoptera: Trichogrammatidae). Spanish Journal of Agricultural Research, 2021, 19, e10SC01.	0.3	2
81	Effects of post-bloom low light and girdling on fruit set of Vitis vinifera (L.) cv. â€˜Rieslingâ€™ and Vitis labruscana (L.) cv. â€˜Concordâ€™. Oeno One, 2018, 52, .	0.7	2
82	Characterization of the nearly extinct â€˜Albillaâ€™ cultivar from Galicia and its relationships with other Spanish â€˜Albillosâ€™. Oeno One, 2016, 47, 261.	0.7	2
83	Temporal Oscillations of Calcium, Magnesium, Potassium, and Sodium Dissolved Contents in an Agroforestry Catchment from the Atlantic Galicia. Communications in Soil Science and Plant Analysis, 2012, 43, 280-287.	0.6	1
84	Response of grapevine cv. â€˜Brancellaoâ€™ and â€˜SousÃ³nâ€™ to supplementary irrigation: Water relations, vine growth, yield and berry and wine composition. Ciencia E Tecnica Vitivinicola, 2016, 31, 98-113.	0.3	1
85	Decision support system and weather forecast data for modeling open field vegetable crops evapotranspiration. Acta Horticulturae, 2021, , 361-366.	0.1	1
86	Long-Term Concentrations and Loads of Four Dissolved Macronutrients from Two Agroforestry Catchments in NW Spain. Hydrology, 2021, 8, 96.	1.3	1
87	On Geostatistical Analysis of Rainfall Using Data from Boundary Sites. Quantitative Geology and Geostatistics, 2010, , 53-63.	0.1	0
88	Influence of Must Clarification Technique on the Volatile Composition of AlbariÃ±o and Treixadura Wines. Molecules, 2022, 27, 810.	1.7	0
89	Water Management in Woody Crops: Challenges and Opportunities. Water (Switzerland), 2022, 14, 2043.	1.2	0