

J Miguel Costa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/425468/publications.pdf>

Version: 2024-02-01

37
papers

3,218
citations

331538

21
h-index

377752

34
g-index

38
all docs

38
docs citations

38
times ranked

4175
citing authors

#	ARTICLE	IF	CITATIONS
1	Grapevine under deficit irrigation: hints from physiological and molecular data. <i>Annals of Botany</i> , 2010, 105, 661-676.	1.4	623
2	Deficit Irrigation as a Strategy to Save Water: Physiology and Potential Application to Horticulture. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 1421-1434.	4.1	313
3	Thermography to explore plant-environment interactions. <i>Journal of Experimental Botany</i> , 2013, 64, 3937-3949.	2.4	286
4	Constitutive activation of a plasma membrane H ⁺ -ATPase prevents abscisic acid-mediated stomatal closure. <i>EMBO Journal</i> , 2007, 26, 3216-3226.	3.5	279
5	The dual effect of abscisic acid on stomata. <i>New Phytologist</i> , 2013, 197, 65-72.	3.5	276
6	Drought stress response in <i>Jatropha curcas</i> : Growth and physiology. <i>Environmental and Experimental Botany</i> , 2013, 85, 76-84.	2.0	159
7	Controlling stomatal aperture in semi-arid regions: The dilemma of saving water or being cool?. <i>Plant Science</i> , 2016, 251, 54-64.	1.7	149
8	Modern viticulture in southern Europe: Vulnerabilities and strategies for adaptation to water scarcity. <i>Agricultural Water Management</i> , 2016, 164, 5-18.	2.4	148
9	Grapevine varieties exhibiting differences in stomatal response to water deficit. <i>Functional Plant Biology</i> , 2012, 39, 179.	1.1	118
10	Impact of irrigation regime on berry development and flavonoids composition in Aragonez (Syn.) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 3	2.4	117
11	Recent Advances in Photosynthesis Under Drought and Salinity. <i>Advances in Botanical Research</i> , 2011, 57, 49-104.	0.5	101
12	Polyols in grape berry: transport and metabolic adjustments as a physiological strategy for water-deficit stress tolerance in grapevine. <i>Journal of Experimental Botany</i> , 2015, 66, 889-906.	2.4	92
13	Combining cover cropping with deficit irrigation in a Mediterranean low vigor vineyard. <i>Scientia Horticulturae</i> , 2011, 129, 603-612.	1.7	88
14	Thermal data to monitor crop-water status in irrigated Mediterranean viticulture. <i>Agricultural Water Management</i> , 2016, 176, 80-90.	2.4	53
15	<i>OPEN ALL NIGHT LONG</i>: The Dark Side of Stomatal Control. <i>Plant Physiology</i> , 2015, 167, 289-294.	2.3	49
16	Deficit irrigation in table grape: eco-physiological basis and potential use to save water and improve quality. <i>Theoretical and Experimental Plant Physiology</i> , 2016, 28, 85-108.	1.1	39
17	Opportunities and Limitations of Crop Phenotyping in Southern European Countries. <i>Frontiers in Plant Science</i> , 2019, 10, 1125.	1.7	37
18	Canopy and soil thermal patterns to support water and heat stress management in vineyards. <i>Agricultural Water Management</i> , 2019, 216, 484-496.	2.4	33

#	ARTICLE	IF	CITATIONS
19	Linking thermal imaging to physiological indicators in <i>Carica papaya</i> L. under different watering regimes. <i>Agricultural Water Management</i> , 2016, 164, 148-157.	2.4	30
20	Transcriptomics and physiological analyses reveal co-ordinated alteration of metabolic pathways in <i>Jatropha curcas</i> drought tolerance. <i>Journal of Experimental Botany</i> , 2016, 67, 845-860.	2.4	29
21	Actin filament reorganisation controlled by the <i>SCAR</i> / <i>WAVE</i> complex mediates stomatal response to darkness. <i>New Phytologist</i> , 2017, 215, 1059-1067.	3.5	27
22	Thylakoidal APX modulates hydrogen peroxide content and stomatal closure in rice (<i>Oryza sativa</i> L.). <i>Environmental and Experimental Botany</i> , 2018, 150, 46-56.	2.0	20
23	The effects of field inoculation of arbuscular mycorrhizal fungi through rye donor plants on grapevine performance and soil properties. <i>Agriculture, Ecosystems and Environment</i> , 2021, 313, 107369.	2.5	18
24	The effect of the original leaf area on growth of softwood cuttings and planting material of rose. <i>Scientia Horticulturae</i> , 2002, 95, 111-121.	1.7	17
25	Comparison of methane, nitrous oxide fluxes and CO ₂ respiration rates from a Mediterranean cork oak ecosystem and improved pasture. <i>Plant and Soil</i> , 2014, 374, 883-898.	1.8	17
26	Challenges for modern wine production in dry areas: dedicated indicators to preview wastewater flows. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 653-661.	1.0	15
27	Water and wastewater management for sustainable viticulture and oenology in South Portugal – a review. <i>Ciencia E Tecnica Vitivinicola</i> , 2020, 35, 1-15.	0.3	15
28	OsICE1 transcription factor improves photosynthetic performance and reduces grain losses in rice plants subjected to drought. <i>Environmental and Experimental Botany</i> , 2018, 150, 88-98.	2.0	12
29	Use of Thermal Imaging in Viticulture: Current Application and Future Prospects. , 2010, , 135-150.		11
30	Potential Phenotyping Methodologies to Assess Inter- and Intravarietal Variability and to Select Grapevine Genotypes Tolerant to Abiotic Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 718202.	1.7	8
31	Thermal imaging to phenotype traditional maize landraces for drought tolerance. <i>Comunicata Scientiae</i> , 2015, 6, 334.	0.4	7
32	DEFICIT IRRIGATION IN MEDITERRANEAN VINEYARDS - A TOOL TO INCREASE WATER USE EFFICIENCY AND TO CONTROL GRAPEVINE AND BERRY GROWTH. <i>Acta Horticulturae</i> , 2012, , 159-170.	0.1	6
33	Can Mediterranean terroirs withstand climate change? Case studies at the Alentejo Portuguese winegrowing region. <i>E3S Web of Conferences</i> , 2018, 50, 01004.	0.2	6
34	Fisiologia e metabolismo foliar em duas variedades de videira sujeitas a um ciclo de déficit hídrico e reidratação. <i>Revista Brasileira de Ciências Agrárias</i> , 2015, 10, 211-217.	0.3	4
35	Water and Heat Fluxes in Mediterranean Vineyards. , 2018, , 219-245.		3
36	Maize Open-Pollinated Populations Physiological Improvement: Validating Tools for Drought Response Participatory Selection. <i>Sustainability</i> , 2019, 11, 6081.	1.6	3

#	ARTICLE	IF	CITATIONS
37	Interdisciplinarity in action: Using infrared thermography to teach plants' energy balance in secondary education. , 0, , .		0