J Miguel Costa

List of Publications by Year
in descending order

37 papers	3,218 citations	331670 21 h-index	377865 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. Annals of Botany, 2010, 105, 661-676.	2.9	623
2	Deficit Irrigation as a Strategy to Save Water: Physiology and Potential Application to Horticulture. Journal of Integrative Plant Biology, 2007, 49, 1421-1434.	8.5	313
3	Thermography to explore plantâ€“environment interactions. Journal of Experimental Botany, 2013, 64, 3937-3949.	4.8	286
4	Constitutive activation of a plasma membrane H+-ATPase prevents abscisic acid-mediated stomatal closure. EMBO Journal, 2007, 26, 3216-3226.	7.8	279
5	The dual effect of abscisic acid on stomata. New Phytologist, 2013, 197, 65-72.	7.3	276
6	Drought stress response in Jatropha curcas: Growth and physiology. Environmental and Experimental Botany, 2013, 85, 76-84.	4.2	159
7	Controlling stomatal aperture in semi-arid regionsâ€”The dilemma of saving water or being cool?. Plant Science, 2016, 251, 54-64.	3.6	149
8	Modern viticulture in southern Europe: Vulnerabilities and strategies for adaptation to water scarcity. Agricultural Water Management, 2016, 164, 5-18.	5.6	148
9	Grapevine varieties exhibiting differences in stomatal response to water deficit. Functional Plant Biology, 2012, 39, 179.	2.1	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	5.6	117
11	Recent Advances in Photosynthesis Under Drought and Salinity. Advances in Botanical Research, 2011, 57, 49-104.	1.1	101
12	Polyols in grape berry: transport and metabolic adjustments as a physiological strategy for water-deficit stress tolerance in grapevine. Journal of Experimental Botany, 2015, 66, 889-906.	4.8	92
13	Combining cover cropping with deficit irrigation in a Mediterranean low vigor vineyard. Scientia Horticulturae, 2011, 129, 603-612.	3.6	88
14	Thermal data to monitor crop-water status in irrigated Mediterranean viticulture. Agricultural Water Management, 2016, 176, 80-90.	5.6	53
15	OPEN ALL NIGHT LONG: The Dark Side of Stomatal Control. Plant Physiology, 2015, 167, 289-294.	4.8	49
16	Deficit irrigation in table grape: eco-physiological basis and potential use to save water and improve quality. Theoretical and Experimental Plant Physiology, 2016, 28, 85-108.	2.4	39
17	Opportunities and Limitations of Crop Phenotyping in Southern European Countries. Frontiers in Plant Science, 2019, 10, 1125.	3.6	37
18	Canopy and soil thermal patterns to support water and heat stress management in vineyards. Agricultural Water Management, 2019, 216, 484-496.	5.6	33

#	Article	IF	Citations
19	Linking thermal imaging to physiological indicators in Carica papaya L. under different watering regimes. Agricultural Water Management, 2016, 164, 148-157.	5.6	30
20	Transcriptomics and physiological analyses reveal co-ordinated alteration of metabolic pathways inJatropha curcasdrought tolerance. Journal of Experimental Botany, 2016, 67, 845-860.	4.8	29
21	Actin filament reorganisation controlled by the <scp>SCAR</scp>/<scp>WAVE</scp> complex mediates stomatal response to darkness. New Phytologist, 2017, 215, 1059-1067.	7.3	27
22	Thylakoidal APX modulates hydrogen peroxide content and stomatal closure in rice (Oryza sativa L.). Environmental and Experimental Botany, 2018, 150, 46-56.	4.2	20
23	The effects of field inoculation of arbuscular mycorrhizal fungi through rye donor plants on grapevine performance and soil properties. Agriculture, Ecosystems and Environment, 2021, 313, 107369.	5.3	18
24	The effect of the original leaf area on growth of softwood cuttings and planting material of rose. Scientia Horticulturae, 2002, 95, 111-121.	3.6	17
25	Comparison of methane, nitrous oxide fluxes and CO2 respiration rates from a Mediterranean cork oak ecosystem and improved pasture. Plant and Soil, 2014, 374, 883-898.	3.7	17
26	Challenges for modern wine production in dry areas: dedicated indicators to preview wastewater flows. Water Science and Technology: Water Supply, 2019, 19, 653-661.	2.1	15
27	Water and wastewater management for sustainable viticulture and oenology in South Portugal â€“ a review. Ciencia E Tecnica Vitivinicola, 2020, 35, 1-15.	0.9	15
28	OsICE1 transcription factor improves photosynthetic performance and reduces grain losses in rice plants subjected to drought. Environmental and Experimental Botany, 2018, 150, 88-98.	4.2	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. Frontiers in Plant Science, 2021, 12, 718202.	3.6	8
31	Thermal imaging to phenotype traditional maize landraces for drought tolerance. Comunicata Scientiae, 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. Acta Horticulturae, 2012, , 159-170.	0.2	6
33	Can Mediterranean terroirs withstand climate change? Case studies at the Alentejo Portuguese winegrowing region. E3S Web of Conferences, 2018, 50, 01004.	0.5	6
34	Fisiologia e metabolismo foliar em duas variedades de videira sujeitas a um ciclo de dÃ©fice hÃdrico e reidrataÃ§Ã£o. Revista Brasileirade Ciencias Agrarias, 2015, 10, 211-217.	0.2	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. Sustainability, 2019, 11, 6081.	3.2	3

#	Article	IF	Citations
37	Interdisciplinarity in action: Using infrared thermography to teach plantsâ€™ energy balance in secondary education. , 0, , .		0