Mauro Guida Santos

List of Publications by Year
in descending order

73 papers	1,892 citations	257101 24 h-index	288905 40 g-index
74 all docs	74 docs citations	74 times ranked	2103 citing authors

#	Article	IF	Citations
1	Caatinga, the Brazilian dry tropical forest: can it tolerate climate changes?. Theoretical and Experimental Plant Physiology, 2014, 26, 83-99.	1.1	136
2	Transcription Factors Involved in Plant Resistance to Pathogens. Current Protein and Peptide Science, 2017, 18, 335-351.	0.7	134
3	Photosynthesis, photoprotection and antioxidant activity of purging nut under drought deficit and recovery. Biomass and Bioenergy, 2010, 34, 1207-1215.	2.9	117
4	Photosynthesis and water relations of well-watered orange plants as affected by winter and summer conditions. Photosynthetica, 2009, 47, 215-222.	0.9	104
5	Photosynthetic parameters and leaf water potential of five common bean genotypes under mild water deficit. Biologia Plantarum, 2009, 53, 229-236.	1.9	71
6	Seasonal and diurnal changes in photosynthetic limitation of young sweet orange trees. Environmental and Experimental Botany, 2009, 66, 203-211.	2.0	68
7	Drought tolerance in cowpea species is driven by less sensitivity of leaf gas exchange to water deficit and rapid recovery of photosynthesis after rehydration. South African Journal of Botany, 2016, 103, 101-107.	1.2	63
8	Gas exchange and yield response to foliar phosphorus application in Phaseolus vulgaris L. under drought. Brazilian Journal of Plant Physiology, 2004, 16, 171-179.	0.5	60
9	The role of inorganic phosphate on photosynthesis recovery of common bean after a mild water deficit. Plant Science, 2006, 170, 659-664.	1.7	59
10	Three cycles of water deficit from seed to young plants of Moringa oleifera woody species improves stress tolerance. Plant Physiology and Biochemistry, 2013, 63, 200-208.	2.8	57
11	Allelopathic and bioherbicidal potential of Cladonia verticillaris on the germination and growth of Lactuca sativa. Ecotoxicology and Environmental Safety, 2012, 84, 125-132.	2.9	52
12	Symbiosis with AMF and leaf Pi supply increases water deficit tolerance of woody species from seasonal dry tropical forest. Journal of Plant Physiology, 2016, 207, 84-93.	1.6	39
13	Photosynthetic limitation and mechanisms of photoprotection under drought and recovery of Calotropis procera, an evergreen C3 from arid regions. Plant Physiology and Biochemistry, 2017, 118, 589-599.	2.8	39
14	Leaf thickness to predict plant water status. Biosystems Engineering, 2017, 156, 148-156.	1.9	38
15	Phenotypic plasticity and ecophysiological strategies in a tropical dry forest chronosequence: A study case with Poincianella pyramidalis. Forest Ecology and Management, 2015, 340, 62-69.	1.4	37
16	Cowpea and abiotic stresses: identification of reference genes for transcriptional profiling by qPCR. Plant Methods, 2018, 14, 88.	1.9	37
17	Water relations and chlorophyll fluorescence responses of two leguminous trees from the Caatinga to different watering regimes. Acta Physiologiae Plantarum, 2010, 32, 235-244.	1.0	34
18	Daily balance of leaf sugars and amino acids as indicators of common bean (Phaseolus vulgaris L.) metabolic response and drought intensity. Physiology and Molecular Biology of Plants, 2009, 15, 23-30.	1.4	32

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19	Stress Tolerance and Ecophysiological Ability of an Invader and a Native Species in a Seasonally Dry Tropical Forest. PLoS ONE, 2014, 9, e105514.	1.1	30
20	Arbuscular mycorrhizal fungi and foliar phosphorus inorganic supply alleviate salt stress effects in physiological attributes, but only arbuscular mycorrhizal fungi increase biomass in woody species of a semiarid environment. Tree Physiology, 2018, 38, 25-36.	1.4	30
21	Seasonal effects on the relationship between photosynthesis and leaf carbohydrates in orange trees. Functional Plant Biology, 2012, 39, 471.	1.1	29
22	Different mechanisms drive the performance of native and invasive woody species in response to leaf phosphorus supply during periods of drought stress and recovery. Plant Physiology and Biochemistry, 2014, 82, 66-75.	2.8	29
23	Environmental effects on photosynthetic capacity of bean genotypes. Pesquisa Agropecuaria Brasileira, 2004, 39, 615-623.	0.9	28
24	Arbuscular mycorrhizal fungi improve photosynthetic energy use efficiency and decrease foliar construction cost under recurrent water deficit in woody evergreen species. Plant Physiology and Biochemistry, 2018, 127, 469-477.	2.8	27
25	Different resource-use strategies of invasive and native woody species from a seasonally dry tropical forest under drought stress and recovery. Plant Physiology and Biochemistry, 2020, 147, 181-190.	2.8	26
26	Tolerance to water deficit in young trees of jackfruit and sugar apple. Revista Ciencia Agronomica, 2010, 41, 245-252.	0.1	24
27	Ecophysiological performance of Calotropis procera: an exotic and evergreen species in Caatinga, Brazilian semi-arid. Acta Physiologiae Plantarum, 2013, 35, 335.	1.0	24
28	Epicuticular-wax removal influences gas exchange and water relations in the leaves of an exotic and native species from a Brazilian semiarid region under induced drought stress. Australian Journal of Botany, 2012, 60, 685.	0.3	22
29	Different physiological responses under drought stress result in different recovery abilities of two tropical woody evergreen species. Acta Botanica Brasilica, 2017, 31, 153-160.	0.8	22
30	Photosynthesis, antioxidant activities and transcriptional responses in two sugarcane (Saccharum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	21
31	Leaf phytohormone levels and stomatal control in an evergreen woody species under semiarid environment in a Brazilian seasonally dry tropical forest. Plant Growth Regulation, 2018, 85, 437-445.	1.8	21
32	Water relations and some aspects of leaf metabolism of Jatropha curcas young plants under two water deficit levels and recovery. Brazilian Journal of Plant Physiology, 2011, 23, 123-130.	0.5	20
33	Leaf construction cost is related to water availability in three species of different growth forms in a Brazilian tropical dry forest. Theoretical and Experimental Plant Physiology, 2017, 29, 95-108.	1.1	19
34	Leaf epicuticular wax content changes under different rainfall regimes, and its removal affects the leaf chlorophyll content and gas exchanges of Aspidosperma pyrifolium in a seasonally dry tropical forest. South African Journal of Botany, 2017, 111, 267-274.	1.2	19
35	Functional groups of forest succession as dissipative structures: an applied study. Brazilian Journal of Biology, 2004, 64, 707-718.	0.4	17
36	Whole plant water status and nonâ€structural carbohydrates under progressive drought in a Caatinga deciduous woody species. Trees - Structure and Function, 2021, 35, 1257-1266.	0.9	17

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37	Ecophysiological, anatomical and biochemical aspects of in vitro culture of zygotic Syagrus coronata embryos and of young plants under drought stress. Trees - Structure and Function, 2015, 29, 1219-1233.	0.9	16
38	Photochemical heat-shock response in common bean leaves as affected by previous water deficit. Russian Journal of Plant Physiology, 2008, 55, 350-358.	0.5	15
39	Increase in biomass of two woody species from a seasonal dry tropical forest in association with AMF with different phosphorus levels. Applied Soil Ecology, 2016, 102, 46-52.	2.1	15
40	Ecophysiological Traits of Invasive C3 Species Calotropis procera to Maintain High Photosynthetic Performance Under High VPD and Low Soil Water Balance in Semi-Arid and Seacoast Zones. Frontiers in Plant Science, 2020, 11, 717.	1.7	14
41	Ecophysiological performance of three Opuntia ficus-indica cultivars exposed to carmine cochineal under field conditions. Scientia Horticulturae, 2013, 150, 419-424.	1.7	13
42	Ecophysiological leaf traits of native and exotic palm tree species under semi-arid conditions. Bragantia, 2016, 75, 128-134.	1.3	13
43	Seasonal variability in physiological and anatomical traits contributes to invasion success ofProsopis juliflorain tropical dry forest. Tree Physiology, 2017, 37, 326-337.	1.4	13
44	Crescimento de plantas jovens de Nim-Indiano (Azadirachta indica a. juss. - Meliaceae) sob diferentes regimes hÃdricos. Revista Arvore, 2010, 34, 771-779.	0.5	12
45	Changes in leaf epicuticular wax, gas exchange and biochemistry metabolism between Jatropha mollissima and Jatropha curcas under semi-arid conditions. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	12
46	Salt tolerance of Calotropis procera begins with immediate regulation of aquaporin activity in the root system. Physiology and Molecular Biology of Plants, 2021, 27, 457-468.	1.4	12
47	Intense mycorrhizal root colonization in a human-modified landscape of the Caatinga dry forest. Forest Ecology and Management, 2020, 462, 117970.	1.4	10
48	Transcriptome of Cenostigma pyramidale roots, a woody legume, under different salt stress times. Physiologia Plantarum, 2021, 173, 1463-1480.	2.6	10
49	Approximate Entropy as a measure of complexity in sap flow temporal dynamics of two tropical tree species under water deficit. Anais Da Academia Brasileira De Ciencias, 2004, 76, 625-630.	0.3	9
50	Coupling Relationship of Leaf Economic and Hydraulic Traits of Alhagisparsifolia Shap. in a Hyper-Arid Desert Ecosystem. Plants, 2021, 10, 1867.	1.6	9
51	Overcoming seed dormancy using gibberellic acid and the performance of young Syagrus coronata plants under severe drought stress and recovery. Plant Physiology and Biochemistry, 2015, 97, 278-286.	2.8	8
52	Stomatal conductance and foliar phytohormones under water status changes in Annona leptopetala , a woody deciduous species in tropical dry forest. Flora: Morphology, Distribution, Functional Ecology of Plants, 2018, 242, 1-7.	0.6	8
53	Arbuscular mycorrhizal inoculation increases drought tolerance and survival of Cenostigma microphyllum seedlings in a seasonally dry tropical forest. Forest Ecology and Management, 2021, 492, 119213.	1.4	8
54	Changes in foliar epicuticular wax and photosynthesis metabolism in evergreen woody species under different soil water availability. Photosynthetica, 2019, 57, 192-201.	0.9	8

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55	In vivo temperature limitations of photosynthesis in Phaseolus vulgaris L. Environmental and Experimental Botany, 2013, 91, 84-89.	2.0	7
56	Reference genes selection for Calotropis procera under different salt stress conditions. PLoS ONE, 2019, 14, e0215729.	1.1	7
57	Effects of changes in the photosynthetic photon flux density on net gas exchange of Citrus limon and Nicotiana tabacum. Brazilian Journal of Plant Physiology, 2004, 16, 77-82.	0.5	7
58	C3-species Calotropis procera increase specific leaf area and decrease stomatal pore size, alleviating gas exchange under drought and salinity. Acta Physiologiae Plantarum, 2021, 43, 1.	1.0	7
59	Stomatal Responses to Light, CO2, and Mesophyll Tissue in Vicia faba and KalanchoÃ« fedtschenkoi. Frontiers in Plant Science, 2021, 12, 740534.	1.7	6
60	Dynamics of nonstructural carbohydrates in a deciduous woody species from tropical dry forests under recurrent water deficit. Physiologia Plantarum, 2022, 174, e13632.	2.6	6
61	Ecophysiology parameters of four Brazilian Atlantic Forest species under shade and drought stress. Acta Physiologiae Plantarum, 2010, 32, 729-737.	1.0	5
62	Water relations in physic nut according to climatic seasonality, in semiarid conditions. Pesquisa Agropecuaria Brasileira, 2011, 46, 1112-1115.	0.9	5
63	Desempenho ecofisiolÃ³gico de milho, sorgo e braquiÃ¡ria sob dÃ©ficit hÃdrico e reidrataÃ§Ã£o. Bragantia, 2014, 73, 203-212.	1.3	5
64	Remobilization of leaf Na+ content and use of nonstructural carbohydrates vary depending on the time when salt stress begins in woody species. Plant Physiology and Biochemistry, 2021, 158, 385-395.	2.8	5
65	Gas exchange, growth, and antioxidant activity in sugarcane under biological nitrogen fixation. Photosynthetica, 2012, 50, 519-528.	0.9	4
66	Foliar phosphorus supply and CO2 assimilation in common bean (Phaseolus vulgaris L.) under water deficit. Brazilian Journal of Plant Physiology, 2006, 18, 407-411.	0.5	3
67	Low foliar construction cost and strong investment in root biomass in Calotropis procera, an invasive species under drought and recovery. Flora: Morphology, Distribution, Functional Ecology of Plants, 2021, 280, 151848.	0.6	3
68	Leaf Photosynthetic Metabolism and N2 Fixation at the Flowering Stage in Three Genotypes of Cowpea [Vigna unguiculata (L.) Walp.]. Journal of Agricultural Science, 2012, 4, .	0.1	2
69	Can the critical temperature for photochemical damage in common bean plants be changed after a drought event?. Bragantia, 2015, 74, 374-378.	1.3	2
70	Changes in phenotypic variability of two tropical woody species due to short and long-term exposure to different irradiances. Bragantia, 2018, 77, 429-439.	1.3	2
71	Strategies of two tropical woody species to tolerate salt stress. Pesquisa Florestal Brasileira, 2017, 37, 63.	0.1	2
72	CaracterÃsticas fotossintÃ©ticas de Phaseolus vulgaris L.. Hoehnea (revista), 2011, 38, 273-280.	0.2	2

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73	Reference genes for quantitative real-time PCR normalization of Cenostigma pyramidale roots under salt stress and mycorrhizal association. Genetics and Molecular Biology, 2021, 44, e20200424.	0.6	1