

Mauro Guida Santos

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72
papers

1,235
citations

18
h-index

33
g-index

74
ext. papers

1,569
ext. citations

3.1
avg, IF

4.4
L-index

#	Paper	IF	Citations
72	Caatinga, the Brazilian dry tropical forest: can it tolerate climate changes?. <i>Theoretical and Experimental Plant Physiology</i> , 2014 , 26, 83-99	2.4	96
71	Photosynthesis, photoprotection and antioxidant activity of purging nut under drought deficit and recovery. <i>Biomass and Bioenergy</i> , 2010 , 34, 1207-1215	5.3	93
70	Photosynthesis and water relations of well-watered orange plants as affected by winter and summer conditions. <i>Photosynthetica</i> , 2009 , 47, 215-222	2.2	81
69	Transcription Factors Involved in Plant Resistance to Pathogens. <i>Current Protein and Peptide Science</i> , 2017 , 18, 335-351	2.8	68
68	Seasonal and diurnal changes in photosynthetic limitation of young sweet orange trees. <i>Environmental and Experimental Botany</i> , 2009 , 66, 203-211	5.9	60
67	Photosynthetic parameters and leaf water potential of five common bean genotypes under mild water deficit. <i>Biologia Plantarum</i> , 2009 , 53, 229-236	2.1	54
66	Gas exchange and yield response to foliar phosphorus application in <i>Phaseolus vulgaris</i> L. under drought. <i>Brazilian Journal of Plant Physiology</i> , 2004 , 16, 171-179		50
65	The role of inorganic phosphate on photosynthesis recovery of common bean after a mild water deficit. <i>Plant Science</i> , 2006 , 170, 659-664	5.3	49
64	Drought tolerance in cowpea species is driven by less sensitivity of leaf gas exchange to water deficit and rapid recovery of photosynthesis after rehydration. <i>South African Journal of Botany</i> , 2016 , 103, 101-107	2.9	43
63	Allelopathic and bioherbicidal potential of <i>Cladonia verticillaris</i> on the germination and growth of <i>Lactuca sativa</i> . <i>Ecotoxicology and Environmental Safety</i> , 2012 , 84, 125-32	7	41
62	Three cycles of water deficit from seed to young plants of <i>Moringa oleifera</i> woody species improves stress tolerance. <i>Plant Physiology and Biochemistry</i> , 2013 , 63, 200-8	5.4	41
61	Water relations and chlorophyll fluorescence responses of two leguminous trees from the Caatinga to different watering regimes. <i>Acta Physiologiae Plantarum</i> , 2010 , 32, 235-244	2.6	27
60	Phenotypic plasticity and ecophysiological strategies in a tropical dry forest chronosequence: A study case with <i>Poincianella pyramidalis</i> . <i>Forest Ecology and Management</i> , 2015 , 340, 62-69	3.9	25
59	Different mechanisms drive the performance of native and invasive woody species in response to leaf phosphorus supply during periods of drought stress and recovery. <i>Plant Physiology and Biochemistry</i> , 2014 , 82, 66-75	5.4	24
58	Seasonal effects on the relationship between photosynthesis and leaf carbohydrates in orange trees. <i>Functional Plant Biology</i> , 2012 , 39, 471-480	2.7	24
57	Cowpea and abiotic stresses: identification of reference genes for transcriptional profiling by qPCR. <i>Plant Methods</i> , 2018 , 14, 88	5.8	24
56	Symbiosis with AMF and leaf P supply increases water deficit tolerance of woody species from seasonal dry tropical forest. <i>Journal of Plant Physiology</i> , 2016 , 207, 84-93	3.6	22

55	Environmental effects on photosynthetic capacity of bean genotypes. <i>Pesquisa Agropecuaria Brasileira</i> , 2004 , 39, 615-623	1.8	20
54	Photosynthesis, antioxidant activities and transcriptional responses in two sugarcane (<i>Saccharum officinarum</i> L.) cultivars under salt stress. <i>Acta Physiologiae Plantarum</i> , 2014 , 36, 447-459	2.6	18
53	Photosynthetic limitation and mechanisms of photoprotection under drought and recovery of <i>Calotropis procera</i> , an evergreen C from arid regions. <i>Plant Physiology and Biochemistry</i> , 2017 , 118, 589-599	5.4	18
52	Arbuscular mycorrhizal fungi improve photosynthetic energy use efficiency and decrease foliar construction cost under recurrent water deficit in woody evergreen species. <i>Plant Physiology and Biochemistry</i> , 2018 , 127, 469-477	5.4	17
51	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. <i>Tree Physiology</i> , 2018 , 38, 25-36	4.2	17
50	Stress tolerance and ecophysiological ability of an invader and a native species in a seasonally dry tropical forest. <i>PLoS ONE</i> , 2014 , 9, e105514	3.7	17
49	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. <i>Australian Journal of Botany</i> , 2012 , 60, 685	1.2	17
48	Water relations and some aspects of leaf metabolism of <i>Jatropha curcas</i> young plants under two water deficit levels and recovery. <i>Brazilian Journal of Plant Physiology</i> , 2011 , 23, 123-130		16
47	Tolerance to water deficit in young trees of jackfruit and sugar apple. <i>Revista Ciencia Agronomica</i> , 2010 , 41, 245-252	1	15
46	Daily balance of leaf sugars and amino acids as indicators of common bean (<i>Phaseolus vulgaris</i> L.) metabolic response and drought intensity. <i>Physiology and Molecular Biology of Plants</i> , 2009 , 15, 23-30	2.8	15
45	Photochemical heat-shock response in common bean leaves as affected by previous water deficit. <i>Russian Journal of Plant Physiology</i> , 2008 , 55, 350-358	1.6	15
44	Leaf thickness to predict plant water status. <i>Biosystems Engineering</i> , 2017 , 156, 148-156	4.8	13
43	Functional groups of forest succession as dissipative structures: an applied study. <i>Brazilian Journal of Biology</i> , 2004 , 64, 707-18	1.5	13
42	Ecophysiological, anatomical and biochemical aspects of in vitro culture of zygotic <i>Syagrus coronata</i> embryos and of young plants under drought stress. <i>Trees - Structure and Function</i> , 2015 , 29, 1219-1233	2.6	12
41	Leaf epicuticular wax content changes under different rainfall regimes, and its removal affects the leaf chlorophyll content and gas exchanges of <i>Aspidosperma pyriformis</i> in a seasonally dry tropical forest. <i>South African Journal of Botany</i> , 2017 , 111, 267-274	2.9	11
40	Changes in leaf epicuticular wax, gas exchange and biochemistry metabolism between <i>Jatropha mollissima</i> and <i>Jatropha curcas</i> under semi-arid conditions. <i>Acta Physiologiae Plantarum</i> , 2015 , 37, 1	2.6	10
39	Different physiological responses under drought stress result in different recovery abilities of two tropical woody evergreen species. <i>Acta Botanica Brasiliica</i> , 2017 , 31, 153-160	1	10
38	Increase in biomass of two woody species from a seasonal dry tropical forest in association with AMF with different phosphorus levels. <i>Applied Soil Ecology</i> , 2016 , 102, 46-52	5	10

37	Ecophysiological leaf traits of native and exotic palm tree species under semi-arid conditions. <i>Bragantia</i> , 2016 , 75, 128-134	1.2	10
36	Crescimento de plantas jovens de Nim-Indiano (<i>Azadirachta indica</i> a. juss. - Meliaceae) sob diferentes regimes hídricos. <i>Revista Arvore</i> , 2010 , 34, 771-779	1	9
35	Approximate Entropy as a measure of complexity in sap flow temporal dynamics of two tropical tree species under water deficit. <i>Anais Da Academia Brasileira De Ciencias</i> , 2004 , 76, 625-30	1.4	9
34	Ecophysiological performance of <i>Calotropis procera</i> : an exotic and evergreen species in Caatinga, Brazilian semi-arid. <i>Acta Physiologiae Plantarum</i> , 2012 , 35, 335	2.6	8
33	Different resource-use strategies of invasive and native woody species from a seasonally dry tropical forest under drought stress and recovery. <i>Plant Physiology and Biochemistry</i> , 2020 , 147, 181-190 ⁵⁻⁴		8
32	Ecophysiological performance of three <i>Opuntia ficus-indica</i> cultivars exposed to carmine cochineal under field conditions. <i>Scientia Horticulturae</i> , 2013 , 150, 419-424	4.1	7
31	Leaf construction cost is related to water availability in three species of different growth forms in a Brazilian tropical dry forest. <i>Theoretical and Experimental Plant Physiology</i> , 2017 , 29, 95-108	2.4	7
30	Leaf phytohormone levels and stomatal control in an evergreen woody species under semiarid environment in a Brazilian seasonally dry tropical forest. <i>Plant Growth Regulation</i> , 2018 , 85, 437-445	3.2	7
29	Seasonal variability in physiological and anatomical traits contributes to invasion success of <i>Prosopis juliflora</i> in tropical dry forest. <i>Tree Physiology</i> , 2017 , 37, 326-337	4.2	6
28	Reference genes selection for <i>Calotropis procera</i> under different salt stress conditions. <i>PLoS ONE</i> , 2019 , 14, e0215729	3.7	6
27	Intense mycorrhizal root colonization in a human-modified landscape of the Caatinga dry forest. <i>Forest Ecology and Management</i> , 2020 , 462, 117970	3.9	5
26	In vivo temperature limitations of photosynthesis in <i>Phaseolus vulgaris</i> L. <i>Environmental and Experimental Botany</i> , 2013 , 91, 84-89	5.9	5
25	Effects of changes in the photosynthetic photon flux density on net gas exchange of <i>Citrus limon</i> and <i>Nicotiana tabacum</i> . <i>Brazilian Journal of Plant Physiology</i> , 2004 , 16, 77-82		5
24	Overcoming seed dormancy using gibberellic acid and the performance of young <i>Syagrus coronata</i> plants under severe drought stress and recovery. <i>Plant Physiology and Biochemistry</i> , 2015 , 97, 278-86	5.4	4
23	Water relations in physic nut according to climatic seasonality, in semiarid conditions. <i>Pesquisa Agropecuaria Brasileira</i> , 2011 , 46, 1112-1115	1.8	4
22	Changes in foliar epicuticular wax and photosynthesis metabolism in evergreen woody species under different soil water availability. <i>Photosynthetica</i> , 2019 , 57, 192-201	2.2	4
21	Ecophysiological Traits of Invasive C Species to Maintain High Photosynthetic Performance Under High VPD and Low Soil Water Balance in Semi-Arid and Seacoast Zones. <i>Frontiers in Plant Science</i> , 2020 , 11, 717	6.2	4
20	Transcriptome of <i>Cenostigma pyramidale</i> roots, a woody legume, under different salt stress times. <i>Physiologia Plantarum</i> , 2021 , 173, 1463-1480	4.6	4

19	Salt tolerance of begins with immediate regulation of aquaporin activity in the root system. <i>Physiology and Molecular Biology of Plants</i> , 2021 , 27, 457-468	2.8	4
18	Desempenho ecofisiológico de milho, sorgo e braquiária sob déficit hídrico e reidratação. <i>Bragantia</i> , 2014 , 73, 203-212	1.2	3
17	Gas exchange, growth, and antioxidant activity in sugarcane under biological nitrogen fixation. <i>Photosynthetica</i> , 2012 , 50, 519-528	2.2	3
16	Ecophysiology parameters of four Brazilian Atlantic Forest species under shade and drought stress. <i>Acta Physiologiae Plantarum</i> , 2010 , 32, 729-737	2.6	3
15	Whole plant water status and non-structural carbohydrates under progressive drought in a Caatinga deciduous woody species. <i>Trees - Structure and Function</i> , 2021 , 35, 1257-1266	2.6	3
14	Arbuscular mycorrhizal inoculation increases drought tolerance and survival of <i>Cenostigma microphyllum</i> seedlings in a seasonally dry tropical forest. <i>Forest Ecology and Management</i> , 2021 , 492, 119213	3.9	3
13	Stomatal conductance and foliar phytohormones under water status changes in <i>Annona leptopetala</i> , a woody deciduous species in tropical dry forest. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2018 , 242, 1-7	1.9	2
12	Can the critical temperature for photochemical damage in common bean plants be changed after a drought event?. <i>Bragantia</i> , 2015 , 74, 374-378	1.2	2
11	Leaf Photosynthetic Metabolism and N ₂ Fixation at the Flowering Stage in Three Genotypes of Cowpea [<i>Vigna unguiculata</i> (L.) Walp.]. <i>Journal of Agricultural Science</i> , 2012 , 4,	1	2
10	Foliar phosphorus supply and CO ₂ assimilation in common bean (<i>Phaseolus vulgaris</i> L.) under water deficit. <i>Brazilian Journal of Plant Physiology</i> , 2006 , 18, 407-411		2
9	Changes in phenotypic variability of two tropical woody species due to short and long-term exposure to different irradiances. <i>Bragantia</i> , 2018 , 77, 429-439	1.2	2
8	Coupling Relationship of Leaf Economic and Hydraulic Traits of Shap. in a Hyper-Arid Desert Ecosystem. <i>Plants</i> , 2021 , 10,	4.5	2
7	Dynamics of non-structural carbohydrates in a deciduous woody species from tropical dry forests under recurrent water deficit.. <i>Physiologia Plantarum</i> , 2022 , e13632	4.6	1
6	Características fotossintéticas de <i>Phaseolus vulgaris</i> L.. <i>Hoehnea (revista)</i> , 2011 , 38, 273-280	1	1
5	Low foliar construction cost and strong investment in root biomass in <i>Calotropis procera</i> , an invasive species under drought and recovery. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2021 , 280, 151848	1.9	1
4	Remobilization of leaf Na content and use of nonstructural carbohydrates vary depending on the time when salt stress begins in woody species. <i>Plant Physiology and Biochemistry</i> , 2021 , 158, 385-395	5.4	1
3	Reference genes for quantitative real-time PCR normalization of <i>Cenostigma pyramidale</i> roots under salt stress and mycorrhizal association. <i>Genetics and Molecular Biology</i> , 2021 , 44, e20200424	2	1
2	Stomatal Responses to Light, CO ₂ , and Mesophyll Tissue in and. <i>Frontiers in Plant Science</i> , 2021 , 12, 7405342		0

1 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

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