Joaquim A G Silveira

List of Publications by Year
in descending order

91	4,354	94269 37	118652 62
papers	citations	h-index	g-index

91	91	91	4681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Understanding photosynthesis in a spatialâ€“temporal multiscale: The need for a systemic view. Theoretical and Experimental Plant Physiology, 2021, 33, 113-124.	1.1	17
2	Transcriptional profiling and physiological responses reveal new insights into drought tolerance in a semiarid adapted species, Anacardium occidentale. Plant Biology, 2021, 23, 1074-1085.	1.8	0
3	H2O2Accumulation, Host Cell Death and Differential Levels of Proteins Related to Photosynthesis, Redox Homeostasis, and Required for Viral Replication Explain the Resistance of EMS-mutagenized Cowpea to Cowpea Severe Mosaic Virus. Journal of Plant Physiology, 2020, 245, 153110.	1.6	6
4	Nitrogen-utilization efficiency during early deficiency after a luxury consumptionÂis improved by sustaining nitrate reductase activity and photosynthesis in cotton plants. Plant and Soil, 2019, 443, 185-198.	1.8	9
5	Photoinhibition of Photosystem I Provides Oxidative Protection During Imbalanced Photosynthetic Electron Transport in Arabidopsis thaliana. Frontiers in Plant Science, 2019, 10, 916.	1.7	53
6	High ammonium supply impairs photosynthetic efficiency in rice exposed to excess light. Photosynthesis Research, 2019, 140, 321-335.	1.6	17
7	The regulation of P700 is an important photoprotective mechanism to NaClâ€salinity in <scp>Jatropha curcas</scp>. Physiologia Plantarum, 2019, 167, 404-417.	2.6	19
8	Proteomic and physiological approaches reveal new insights for uncover the role of rice thylakoidal APX in response to drought stress. Journal of Proteomics, 2019, 192, 125-136.	1.2	18
9	Increase in assimilatory nitrate reduction and photorespiration enhances CO2 assimilation under high light-induced photoinhibition in cotton. Environmental and Experimental Botany, 2019, 159, 66-74.	2.0	17
10	Function and Compensatory Mechanisms Among the Components of the Chloroplastic Redox Network. Critical Reviews in Plant Sciences, 2019, 38, 1-28.	2.7	14
11	Mitochondrial glutathione peroxidase (OsGPX3) has a crucial role in rice protection against salt stress. Environmental and Experimental Botany, 2019, 158, 12-21.	2.0	28
12	Impairment of peroxisomal APX and CAT activities increases protection of photosynthesis under oxidative stress. Journal of Experimental Botany, 2019, 70, 627-639.	2.4	31
13	Photosynthesis impairment and oxidative stress in Jatropha curcas exposed to drought are partially dependent on decreased catalase activity. Acta Physiologiae Plantarum, 2019, 41, 1.	1.0	23
14	Consequences of photosystemâ€‰damage and repair on photosynthesis and carbon use in Arabidopsis thaliana. Plant Journal, 2019, 97, 1061-1072.	2.8	43
15	Antioxidant response of cowpea co-inoculated with plant growth-promoting bacteria under salt stress. Brazilian Journal of Microbiology, 2018, 49, 513-521.	0.8	55
16	Ascorbic acid toxicity is related to oxidative stress and enhanced by high light and knockdown of chloroplast ascorbate peroxidases in rice plants. Theoretical and Experimental Plant Physiology, 2018, 30, 41-55.	1.1	11
17	Thylakoidal APX modulates hydrogen peroxide content and stomatal closure in rice (Oryza sativa L.). Environmental and Experimental Botany, 2018, 150, 46-56.	2.0	20
18	Antioxidant protection and PSII regulation mitigate photo-oxidative stress induced by drought followed by high light in cashew plants. Environmental and Experimental Botany, 2018, 149, 59-69.	2.0	53

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19	Changes induced by co-inoculation in nitrogenâ€“carbon metabolism in cowpea under salinity stress. Brazilian Journal of Microbiology, 2018, 49, 685-694.	0.8	22
20	Flexibility of C4 decarboxylation and photosynthetic plasticity in sugarcane plants under shading. Environmental and Experimental Botany, 2018, 149, 34-42.	2.0	33
21	Integrated physiological analysis reveals that recovery capacity after salt stress withdrawal is a crucial mechanism for salt tolerance in soybean cultivars. Indian Journal of Plant Physiology, 2018, 23, 444-458.	0.8	1
22	Cyclic electron flow, <scp>NPQ</scp> and photorespiration are crucial for the establishment of young plants of Ricinus communis and Jatropha curcas exposed to drought. Plant Biology, 2017, 19, 650-659.	1.8	34
23	Gel-free/label-free proteomic, photosynthetic, and biochemical analysis of cowpea (Vigna unguiculata) Tj ETQq1 1 0.784314 rgBT /Ov 76-91.	1.2	17
24	Rice peroxisomal ascorbate peroxidase knockdown affects ROS signaling and triggers early leaf senescence. Plant Science, 2017, 263, 55-65.	1.7	71
25	Photosynthetic and biochemical mechanisms of an EMS-mutagenized cowpea associated with its resistance to cowpea severe mosaic virus. Plant Cell Reports, 2017, 36, 219-234.	2.8	28
26	Increased sink strength offsets the inhibitory effect of sucrose on sugarcane photosynthesis. Journal of Plant Physiology, 2017, 208, 61-69.	1.6	29
27	Silenced rice in both cytosolic ascorbate peroxidases displays pre-acclimation to cope with oxidative stress induced by 3-aminotriazole-inhibited catalase. Journal of Plant Physiology, 2016, 201, 17-27.	1.6	34
28	Mitochondrial GPX1 silencing triggers differential photosynthesis impairment in response to salinity in rice plants. Journal of Integrative Plant Biology, 2016, 58, 737-748.	4.1	33
29	Salt-induced NO₃⁻ uptake inhibition in cowpea roots is dependent on the ionic composition of the salt and its osmotic effect. Biologia Plantarum, 2016, 60, 731-740.	1.9	2
30	Salinity and osmotic stress trigger different antioxidant responses related to cytosolic ascorbate peroxidase knockdown in rice roots. Environmental and Experimental Botany, 2016, 131, 58-67.	2.0	29
31	Drought increases cowpea (Vigna unguiculata [L.] Walp.) susceptibility to cowpea severe mosaic virus (CPSMV) at early stage of infection. Plant Physiology and Biochemistry, 2016, 109, 91-102.	2.8	12
32	Proteomics, photosynthesis and salt resistance in crops: An integrative view. Journal of Proteomics, 2016, 143, 24-35.	1.2	66
33	Physiological adjustment to salt stress in <scp>J</scp>atropha curcas is associated with accumulation of salt ions, transport and selectivity of <scp>K</scp>⁺, osmotic adjustment and <scp>K</scp>⁺/<scp>N</scp>a⁺ homeostasis. Plant Biology, 2015, 17, 1023-1029.	1.8	63
34	Photosynthetic and antioxidant responses to drought during sugarcane ripening. Photosynthetica, 2015, 53, 547-554.	0.9	34
35	Exogenous sucrose supply changes sugar metabolism and reduces photosynthesis of sugarcane through the down-regulation of Rubisco abundance and activity. Journal of Plant Physiology, 2015, 179, 113-121.	1.6	71
36	Peroxisomal <scp>APX</scp> knockdown triggers antioxidant mechanisms favourable for coping with high photorespiratory <scp>H</scp>₂<scp>O</scp>₂ induced by <scp>CAT</scp> deficiency in rice. Plant, Cell and Environment, 2015, 38, 499-513.	2.8	36

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37	Photoprotective function of energy dissipation by thermal processes and photorespiratory mechanisms in Jatropha curcas plants during different intensities of drought and after recovery. Environmental and Experimental Botany, 2015, 110, 36-45.	2.0	70
38	Cytosolic <scp>APX</scp> knockdown rice plants sustain photosynthesis by regulation of protein expression related to photochemistry, Calvin cycle and photorespiration. Physiologia Plantarum, 2014, 150, 632-645.	2.6	19
39	Dissipation of excess photosynthetic energy contributes to salinity tolerance: A comparative study of salt-tolerant Ricinus communis and salt-sensitive Jatropha curcas. Journal of Plant Physiology, 2014, 171, 23-30.	1.6	61
40	Chloroplastic and mitochondrial GPX genes play a critical role in rice development. Biologia Plantarum, 2014, 58, 375-378.	1.9	30
41	Salt-induced delay in cotyledonary globulin mobilization is abolished by induction of proteases and leaf growth sink strength at late seedling establishment in cashew. Journal of Plant Physiology, 2014, 171, 1362-1371.	1.6	8
42	The knockdown of chloroplastic ascorbate peroxidases reveals its regulatory role in the photosynthesis and protection under photo-oxidative stress in rice. Plant Science, 2014, 214, 74-87.	1.7	81
43	Involvement of ASR genes in aluminium tolerance mechanisms in rice. Plant, Cell and Environment, 2013, 36, 52-67.	2.8	86
44	Minimization of oxidative stress in cowpea nodules by the interrelationship between Bradyrhizobium sp. and plant growth-promoting bacteria. Applied Soil Ecology, 2013, 64, 245-251.	2.1	26
45	Differences in Cowpea Root Growth Triggered by Salinity and Dehydration are Associated with Oxidative Modulation Involving Types I and III Peroxidases and Apoplastic Ascorbate. Journal of Plant Growth Regulation, 2013, 32, 376-387.	2.8	23
46	Superoxide dismutase and ascorbate peroxidase improve the recovery of photosynthesis in sugarcane plants subjected to water deficit and low substrate temperature. Plant Physiology and Biochemistry, 2013, 73, 326-336.	2.8	106
47	Contrasting Physiological Responses of Jatropha curcas Plants to Single and Combined Stresses of Salinity and Heat. Journal of Plant Growth Regulation, 2013, 32, 159-169.	2.8	62
48	Metabolism of nitrogen and carbon: Optimization of biological nitrogen fixation and cowpea development. Soil Biology and Biochemistry, 2013, 67, 226-234.	4.2	24
49	High K⁺ supply avoids Na⁺ toxicity and improves photosynthesis by allowing favorable K⁺ : Na⁺ ratios through the inhibition of Na⁺ uptake and transport to the shoots of Jatropha curcas plants. Journal of Plant Nutrition and Soil Science, 2013, 176, 157-164.	1.1	55
50	Rootstocks induce contrasting photosynthetic responses of orange plants to low night temperature without affecting the antioxidant metabolism. Theoretical and Experimental Plant Physiology, 2013, 25, 26-35.	1.1	19
51	Exogenous ornithine is an effective precursor and the Î´-ornithine amino transferase pathway contributes to proline accumulation under high N recycling in salt-stressed cashew leaves. Journal of Plant Physiology, 2012, 169, 41-49.	1.6	76
52	Salt resistance in two cashew species is associated with accumulation of organic and inorganic solutes. Acta Physiologiae Plantarum, 2012, 34, 1629-1637.	1.0	13
53	High supply of NO3 â˜ mitigates salinity effects through an enhancement in the efficiency of photosystem II and CO2 assimilation in Jatropha curcas plants. Acta Physiologiae Plantarum, 2012, 34, 2135-2143.	1.0	51
54	Coordinate changes in photosynthesis, sugar accumulation and antioxidative enzymes improve the performance of Jatropha curcas plants under drought stress. Biomass and Bioenergy, 2012, 45, 270-279.	2.9	67

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55	Cross-scale multivariate analysis of physiological responses to high temperature in two tropical crops with C3 and C4 metabolism. Environmental and Experimental Botany, 2012, 80, 54-62.	2.0	32
56	Modulation of genes related to specific metabolic pathways in response to cytosolic ascorbate peroxidase knockdown in rice plants. Plant Biology, 2012, 14, 944-955.	1.8	17
57	Partial oxidative protection by enzymatic and non-enzymatic components in cashew leaves under high salinity. Biologia Plantarum, 2012, 56, 172-176.	1.9	30
58	Atividade de enzimas antioxidantes e inibiÃ§Ã£o do crescimento radicular de feijÃ£o caupi sob diferentes nÃveis de salinidade. Acta Botanica Brasilica, 2012, 26, 342-349.	0.8	27
59	AclimataÃ§Ã£o ao estresse salino em plantas de arroz induzida pelo prÃ©-tratamento com H2O2. Revista Brasileira De Engenharia Agricola E Ambiental, 2011, 15, 416-423.	0.4	27
60	Salt stress induced damages on the photosynthesis of physic nut young plants. Scientia Agricola, 2011, 68, 62-68.	0.6	96
61	Role of peroxidases in the compensation of cytosolic ascorbate peroxidase knockdown in rice plants under abiotic stress. Plant, Cell and Environment, 2011, 34, 1705-1722.	2.8	106
62	Ascorbate peroxidaseâ€related (APxâ€R) is a new hemeâ€containing protein functionally associated with ascorbate peroxidase but evolutionarily divergent. New Phytologist, 2011, 191, 234-250.	3.5	57
63	High temperature positively modulates oxidative protection in salt-stressed cashew plants. Environmental and Experimental Botany, 2011, 74, 162-170.	2.0	29
64	Temperaturas elevadas afetam a distribuiÃ§Ã£o de Ãons em plantas de feijÃ£o caupi prÃ©-tratadas com NaCl1. Revista Brasileira De Engenharia Agricola E Ambiental, 2011, 15, 403-409.	0.4	5
65	Antioxidative enzymatic protection in leaves of two contrasting cowpea cultivars under salinity. Biologia Plantarum, 2010, 54, 159-163.	1.9	41
66	The role of organic and inorganic solutes in the osmotic adjustment of drought-stressed Jatropha curcas plants. Environmental and Experimental Botany, 2010, 69, 279-285.	2.0	129
67	Cytosolic APx knockdown indicates an ambiguous redox responses in rice. Phytochemistry, 2010, 71, 548-558.	1.4	115
68	Salt-induced changes in antioxidative enzyme activities in root tissues do not account for the differential salt tolerance of two cowpea cultivars. Brazilian Journal of Plant Physiology, 2010, 22, 113-122.	0.5	14
69	Photosynthetic changes and protective mechanisms against oxidative damage subjected to isolated and combined drought and heat stresses in Jatropha curcas plants. Journal of Plant Physiology, 2010, 167, 1157-1164.	1.6	204
70	Comparative effects of salinity and water stress on photosynthesis, water relations and growth of Jatropha curcas plants. Journal of Arid Environments, 2010, 74, 1130-1137.	1.2	153
71	Physiological alterations modulated by rootstock and scion combination in cashew under salinity. Scientia Horticulturae, 2010, 127, 39-45.	1.7	30
72	InfluÃªncia de porta-enxertos na resistÃªncia de mudas de cajueiro ao estresse salino. Pesquisa Agropecuaria Brasileira, 2009, 44, 361-367.	0.9	22

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73	Roots and leaves display contrasting osmotic adjustment mechanisms in response to NaCl-salinity in Atriplex nummularia. Environmental and Experimental Botany, 2009, 66, 1-8.	2.0	154
74	Involvement of cation channels and NH₄⁺-sensitive K⁺ transporters in Na⁺ uptake by cowpea roots under salinity. Biologia Plantarum, 2009, 53, 764-768.	1.9	13
75	Sourceâ€“sink regulation of cotyledonary reserve mobilization during cashew (Anacardium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.6	53
76	Photochemical damage and comparative performance of superoxide dismutase and ascorbate peroxidase in sugarcane leaves exposed to paraquat-induced oxidative stress. Pesticide Biochemistry and Physiology, 2008, 90, 181-188.	1.6	76
77	Roots and leaves display contrasting oxidative response during salt stress and recovery in cowpea. Journal of Plant Physiology, 2007, 164, 591-600.	1.6	139
78	InfluÃªncia do tempo de aclimataÃ§Ã£o na resposta do cajueiro Ã salinidade. Revista Brasileira De Engenharia Agricola E Ambiental, 2007, 11, 173-179.	0.4	3
79	An aqueous suspension of Crinipellis perniciosa mycelium activates tomato defence responses against Xanthomonas vesicatoria. Crop Protection, 2007, 26, 729-738.	1.0	48
80	AcumulaÃ§Ã£o de Ãons e metabolismo de N em cajueiro anÃ£o em meio salino. Revista Brasileira De Engenharia Agricola E Ambiental, 2007, 11, 125-133.	0.4	4
81	Induced defence responses and protective effects on tomato against Xanthomonas vesicatoria by an aqueous extract from Solanum lycocarpum infected with Crinipellis perniciosa. Biological Control, 2006, 39, 408-417.	1.4	24
82	Induction of an anionic peroxidase in cowpea leaves by exogenous salicylic acid. Journal of Plant Physiology, 2006, 163, 1040-1048.	1.6	42
83	Activities of antioxidant enzymes and photosynthetic responses in tomato pre-treated by plant activators and inoculated by Xanthomonas vesicatoria. Physiological and Molecular Plant Pathology, 2006, 68, 198-208.	1.3	58
84	Salinity tolerance of halophyte Atriplex nummularia L. grown under increasing NaCl levels. Revista Brasileira De Engenharia Agricola E Ambiental, 2006, 10, 848-854.	0.4	45
85	Photosynthetic responses of young cashew plants to varying environmental conditions. Pesquisa Agropecuaria Brasileira, 2005, 40, 735-744.	0.9	16
86	Storage of seeds of Cnidosculus phyllacanthus Pax & K. Hoffm.. Revista Brasileira De Engenharia Agricola E Ambiental, 2005, 9, 591-595.	0.4	1
87	Superoxide dismutase, catalase and peroxidase activities do not confer protection against oxidative damage in saltâ€stressed cowpea leaves. New Phytologist, 2004, 163, 563-571.	3.5	244
88	Proline accumulation and glutamine synthetase activity are increased by salt-induced proteolysis in cashew leaves. Journal of Plant Physiology, 2003, 160, 115-123.	1.6	183
89	Plant growth, accumulation and solute partitioning of four forest species under salt stress. Revista Brasileira De Engenharia Agricola E Ambiental, 2003, 7, 258-262.	0.4	7
90	Nitrate reductase activity, distribution, and response to nitrate in two contrasting Phaseolus species inoculated with Rhizobium spp.. Environmental and Experimental Botany, 2001, 46, 37-46.	2.0	47

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91	Salinity-induced effects on nitrogen assimilation related to growth in cowpea plants. Environmental and Experimental Botany, 2001, 46, 171-179.	2.0	137