

Fabricio E L Carvalho

List of Publications by Year in descending order

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36
papers

1,055
citations

430874

18
h-index

434195

31
g-index

36
all docs

36
docs citations

36
times ranked

1415
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of peroxidases in the compensation of cytosolic ascorbate peroxidase knockdown in rice plants under abiotic stress. <i>Plant, Cell and Environment</i> , 2011, 34, 1705-1722.	5.7	106
2	Involvement of <i>ASR</i> genes in aluminium tolerance mechanisms in rice. <i>Plant, Cell and Environment</i> , 2013, 36, 52-67.	5.7	86
3	The knockdown of chloroplastic ascorbate peroxidases reveals its regulatory role in the photosynthesis and protection under photo-oxidative stress in rice. <i>Plant Science</i> , 2014, 214, 74-87.	3.6	81
4	Rice peroxisomal ascorbate peroxidase knockdown affects ROS signaling and triggers early leaf senescence. <i>Plant Science</i> , 2017, 263, 55-65.	3.6	71
5	Proteomics, photosynthesis and salt resistance in crops: An integrative view. <i>Journal of Proteomics</i> , 2016, 143, 24-35.	2.4	66
6	Antioxidant protection and PSII regulation mitigate photo-oxidative stress induced by drought followed by high light in cashew plants. <i>Environmental and Experimental Botany</i> , 2018, 149, 59-69.	4.2	53
7	Peroxisomal <i>APX</i> knockdown triggers antioxidant mechanisms favourable for coping with high photorespiratory H_2O_2 induced by <i>CAT</i> deficiency in rice. <i>Plant, Cell and Environment</i> , 2015, 38, 499-513.	5.7	36
8	Silenced rice in both cytosolic ascorbate peroxidases displays pre-acclimation to cope with oxidative stress induced by 3-aminotriazole-inhibited catalase. <i>Journal of Plant Physiology</i> , 2016, 201, 17-27.	3.5	34
9	Mitochondrial GPX1 silencing triggers differential photosynthesis impairment in response to salinity in rice plants. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 737-748.	8.5	33
10	Quantifying the dynamics of light tolerance in <i>A. rabidopsis</i> plants during ontogenesis. <i>Plant, Cell and Environment</i> , 2015, 38, 2603-2617.	5.7	31
11	Impairment of peroxisomal APX and CAT activities increases protection of photosynthesis under oxidative stress. <i>Journal of Experimental Botany</i> , 2019, 70, 627-639.	4.8	31
12	Physiological alterations modulated by rootstock and scion combination in cashew under salinity. <i>Scientia Horticulturae</i> , 2010, 127, 39-45.	3.6	30
13	Chloroplastic and mitochondrial GPX genes play a critical role in rice development. <i>Biologia Plantarum</i> , 2014, 58, 375-378.	1.9	30
14	Salinity and osmotic stress trigger different antioxidant responses related to cytosolic ascorbate peroxidase knockdown in rice roots. <i>Environmental and Experimental Botany</i> , 2016, 131, 58-67.	4.2	29
15	Photosynthetic and biochemical mechanisms of an EMS-mutagenized cowpea associated with its resistance to cowpea severe mosaic virus. <i>Plant Cell Reports</i> , 2017, 36, 219-234.	5.6	28
16	Aclimatao ao estresse salino em plantas de arroz induzida pelo pr©-tratamento com H2O2. <i>Revista Brasileira De Engenharia Agrícola E Ambiental</i> , 2011, 15, 416-423.	1.1	27
17	Photosynthesis impairment and oxidative stress in <i>Jatropha curcas</i> exposed to drought are partially dependent on decreased catalase activity. <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	2.1	23
18	What proteomics can reveal about plant-virus interactions? Photosynthesis-related proteins on the spotlight. <i>Theoretical and Experimental Plant Physiology</i> , 2019, 31, 227-248.	2.4	21

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19	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.	4.2	20
20	Cytosolic <sc>APX</sc> knockdown rice plants sustain photosynthesis by regulation of protein expression related to photochemistry, Calvin cycle and photorespiration. <i>Physiologia Plantarum</i> , 2014, 150, 632-645.	5.2	19
21	The regulation of P700 is an important photoprotective mechanism to NaCl salinity in <sc><i>Jatropha curcas</i></sc>. <i>Physiologia Plantarum</i> , 2019, 167, 404-417.	5.2	19
22	Proteomic and physiological approaches reveal new insights for uncover the role of rice thylakoidal APX in response to drought stress. <i>Journal of Proteomics</i> , 2019, 192, 125-136.	2.4	18
23	A resistant cowpea (<i>Vigna unguiculata</i> [L.] Walp.) genotype became susceptible to cowpea severe mosaic virus (CPSMV) after exposure to salt stress. <i>Journal of Proteomics</i> , 2019, 194, 200-217.	2.4	18
24	Modulation of genes related to specific metabolic pathways in response to cytosolic ascorbate peroxidase knockdown in rice plants. <i>Plant Biology</i> , 2012, 14, 944-955.	3.8	17
25	High ammonium supply impairs photosynthetic efficiency in rice exposed to excess light. <i>Photosynthesis Research</i> , 2019, 140, 321-335.	2.9	17
26	Increase in assimilatory nitrate reduction and photorespiration enhances CO ₂ assimilation under high light-induced photoinhibition in cotton. <i>Environmental and Experimental Botany</i> , 2019, 159, 66-74.	4.2	17
27	Understanding photosynthesis in a spatial-temporal multiscale: The need for a systemic view. <i>Theoretical and Experimental Plant Physiology</i> , 2021, 33, 113-124.	2.4	17
28	Function and Compensatory Mechanisms Among the Components of the Chloroplastic Redox Network. <i>Critical Reviews in Plant Sciences</i> , 2019, 38, 1-28.	5.7	14
29	Assessing photosynthesis in plant systems: A cornerstone to aid in the selection of resistant and productive crops. <i>Environmental and Experimental Botany</i> , 2022, 201, 104950.	4.2	14
30	Ascorbic acid toxicity is related to oxidative stress and enhanced by high light and knockdown of chloroplast ascorbate peroxidases in rice plants. <i>Theoretical and Experimental Plant Physiology</i> , 2018, 30, 41-55.	2.4	11
31	Killing two birds with one stone: How do Plant Viruses Break Down Plant Defenses and Manipulate Cellular Processes to Replicate Themselves?. <i>Journal of Plant Biology</i> , 2019, 62, 170-180.	2.1	10
32	Nitrogen-utilization efficiency during early deficiency after a luxury consumption is improved by sustaining nitrate reductase activity and photosynthesis in cotton plants. <i>Plant and Soil</i> , 2019, 443, 185-198.	3.7	9
33	Salt-induced delay in cotyledonary globulin mobilization is abolished by induction of proteases and leaf growth sink strength at late seedling establishment in cashew. <i>Journal of Plant Physiology</i> , 2014, 171, 1362-1371.	3.5	8
34	H ₂ O ₂ Accumulation, 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. <i>Journal of Plant Physiology</i> , 2020, 245, 153110.	3.5	6
35	Ammonium overaccumulation in senescent leaves as a novel exclusion mechanism to avoid toxicity in photosynthetically active rice leaves. <i>Environmental and Experimental Botany</i> , 2021, 186, 104452.	4.2	5
36	Editorial: Photosynthetic Efficiency Under Multiple Stress Conditions: Prospects for Increasing Crop Yields. <i>Frontiers in Plant Science</i> , 2022, 13, 893730.	3.6	0