

David B Medeiros

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,265
citations

471509

17
h-index

395702

33
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39
all docs

39
docs citations

39
times ranked

1809
citing authors

#	ARTICLE	IF	CITATIONS
1	Modifications in Organic Acid Profiles During Fruit Development and Ripening: Correlation or Causation?. <i>Frontiers in Plant Science</i> , 2018, 9, 1689.	3.6	152
2	The chitosan affects severely the carbon metabolism in mango (<i>Mangifera indica</i> L. cv. Palmer) fruit during storage. <i>Food Chemistry</i> , 2017, 237, 372-378.	8.2	142
3	The influence of alternative pathways of respiration that utilize branched-chain amino acids following water shortage in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 1304-1319.	5.7	139
4	Autophagy Deficiency Compromises Alternative Pathways of Respiration following Energy Deprivation in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2017, 175, 62-76.	4.8	98
5	Enhanced Photosynthesis and Growth in <i>Arabidopsis thaliana</i> Knockout Mutants Are Due to Altered Organic Acid Accumulation and an Increase in Both Stomatal and Mesophyll Conductance. <i>Plant Physiology</i> , 2016, 170, 86-101.	4.8	77
6	Metabolism within the specialized guard cells of plants. <i>New Phytologist</i> , 2017, 216, 1018-1033.	7.3	77
7	Sucrose breakdown within guard cells provides substrates for glycolysis and glutamine biosynthesis during light-induced stomatal opening. <i>Plant Journal</i> , 2018, 94, 583-594.	5.7	61
8	Impaired Malate and Fumarate Accumulation Due to the Mutation of the Tonoplast Dicarboxylate Transporter Has Little Effects on Stomatal Behavior. <i>Plant Physiology</i> , 2017, 175, 1068-1081.	4.8	51
9	Metabolite profiles reveal interspecific variation in operation of the Calvin-Benson cycle in both C4 and C3 plants. <i>Journal of Experimental Botany</i> , 2019, 70, 1843-1858.	4.8	47
10	Growth and metabolic adjustments in response to gibberellin deficiency in drought stressed tomato plants. <i>Environmental and Experimental Botany</i> , 2019, 159, 95-107.	4.2	41
11	Eating Away at ROS to Regulate Stomatal Opening. <i>Trends in Plant Science</i> , 2020, 25, 220-223.	8.8	36
12	The mitochondrial NAD ⁺ transporter (NDT1) plays important roles in cellular NAD ⁺ homeostasis in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2019, 100, 487-504.	5.7	34
13	Utilizing systems biology to unravel stomatal function and the hierarchies underpinning its control. <i>Plant, Cell and Environment</i> , 2015, 38, 1457-1470.	5.7	31
14	Insights into ABA-mediated regulation of guard cell primary metabolism revealed by systems biology approaches. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 146, 37-49.	2.9	26
15	Metabolic profiles in C3, C3-C4 intermediate, C4-like, and C4 species in the genus <i>Flaveria</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 1581-1601.	4.8	25
16	The sucrose:malate ratio correlates with the faster CO ₂ and light stomatal responses of angiosperms compared to ferns. <i>New Phytologist</i> , 2019, 223, 1873-1887.	7.3	22
17	Changes in intracellular NAD status affect stomatal development in an abscisic acid-dependent manner. <i>Plant Journal</i> , 2020, 104, 1149-1168.	5.7	21
18	Metabolomics for understanding stomatal movements. <i>Theoretical and Experimental Plant Physiology</i> , 2019, 31, 91-102.	2.4	18

#	ARTICLE	IF	CITATIONS
19	Prunus Hexokinase 3 genes alter primary C-metabolism and promote drought and salt stress tolerance in Arabidopsis transgenic plants. <i>Scientific Reports</i> , 2021, 11, 7098.	3.3	18
20	Establishment of a GCâ€MSâ€b based ¹³ Câ€positional isotopomer approach suitable for investigating metabolic fluxes in plant primary metabolism. <i>Plant Journal</i> , 2021, 108, 1213-1233.	5.7	18
21	Modulation of auxin signalling through <i>DIAGETROPICA</i> and <i>ENTIRE</i> differentially affects tomato plant growth via changes in photosynthetic and mitochondrial metabolism. <i>Plant, Cell and Environment</i> , 2019, 42, 448-465.	5.7	17
22	The utility of metabolomics as a tool to inform maize biology. <i>Plant Communications</i> , 2021, 2, 100187.	7.7	17
23	Maize Field Study Reveals Covaried Microbiota and Metabolic Changes in Roots over Plant Growth. <i>MBio</i> , 2022, 13, e0258421.	4.1	15
24	The knowns and unknowns of intracellular partitioning of carbon and nitrogen, with focus on the organic acid-mediated interplay between mitochondrion and chloroplast. <i>Journal of Plant Physiology</i> , 2021, 266, 153521.	3.5	13
25	Discriminating the Function(s) of Guard Cell ALMT Channels. <i>Trends in Plant Science</i> , 2018, 23, 649-651.	8.8	12
26	¹³ CO ₂ labeling kinetics in maize reveal impaired efficiency of C ₄ photosynthesis under low irradiance. <i>Plant Physiology</i> , 2022, 190, 280-304.	4.8	11
27	The significance of WRKY45 transcription factor in metabolic adjustments during darkâ€induced leaf senescence. <i>Plant, Cell and Environment</i> , 2022, 45, 2682-2695.	5.7	9
28	Transcriptome analysis reveals potential roles of a barley ASR gene that confers stress tolerance in transgenic rice. <i>Journal of Plant Physiology</i> , 2019, 238, 29-39.	3.5	8
29	Mild reductions in guard cell sucrose synthase 2 expression leads to slower stomatal opening and decreased whole plant transpiration in <i>Nicotiana tabacum</i> L. <i>Environmental and Experimental Botany</i> , 2021, 184, 104370.	4.2	8
30	Control of waterâ€use efficiency by florigen. <i>Plant, Cell and Environment</i> , 2020, 43, 76-86.	5.7	6
31	Non-aqueous Fractionation (NAF) for Metabolite Analysis in Subcellular Compartments of Arabidopsis Leaf Tissues. <i>Bio-protocol</i> , 2019, 9, e3399.	0.4	4
32	Reduced auxin signalling through the cyclophilin gene <i>DIAGEOTROPICA</i> impacts tomato fruit development and metabolism during ripening. <i>Journal of Experimental Botany</i> , 2022, 73, 4113-4128.	4.8	4
33	High Photosynthetic Rates in a <i>Solanum pennellii</i> Chromosome 2 QTL Is Explained by Biochemical and Photochemical Changes. <i>Frontiers in Plant Science</i> , 2020, 11, 794.	3.6	3
34	Commonalities and differences in plants deficient in autophagy and alternative pathways of respiration on response to extended darkness. <i>Plant Signaling and Behavior</i> , 2017, 12, e1377877.	2.4	2
35	Crop genetic diversity uncovers metabolites, elements, and gene networks predicted to be associated with high plant biomass yields in maize. , 2022, 1, .		2
36	Elevated carbon assimilation and metabolic reprogramming in tomato high pigment mutants support the increased production of pigments. <i>Plant Cell Reports</i> , 0, , .	5.6	0