David B Medeiros

List of Publications by Year
in descending order

36 papers	1,265 citations	471509 17 h-index	395702 33 g-index
39 all docs	39 docs citations	39 times ranked	1809 citing authors

#	Article	IF	Citations
1	Maize Field Study Reveals Covaried Microbiota and Metabolic Changes in Roots over Plant Growth. MBio, 2022, 13, e0258421.	4.1	15
2	Reduced auxin signalling through the cyclophilin gene <i>DIAGEOTROPICA</i> impacts tomato fruit development and metabolism during ripening. Journal of Experimental Botany, 2022, 73, 4113-4128.	4.8	4
3	Metabolic profiles in C3, C3â€“C4 intermediate, C4-like, and C4 species in the genus <i>Flaveria</i>. Journal of Experimental Botany, 2022, 73, 1581-1601.	4.8	25
4	13CO2 labeling kinetics in maize reveal impaired efficiency of C4 photosynthesis under low irradiance. Plant Physiology, 2022, 190, 280-304.	4.8	11
5	The significance of WRKY45 transcription factor in metabolic adjustments during darkâ€induced leaf senescence. Plant, Cell and Environment, 2022, 45, 2682-2695.	5.7	9
6	Crop genetic diversity uncovers metabolites, elements, and gene networks predicted to be associated with high plant biomass yields in maize. , 2022, 1, .		2
7	Prunus Hexokinase 3 genes alter primary C-metabolism and promote drought and salt stress tolerance in Arabidopsis transgenic plants. Scientific Reports, 2021, 11, 7098.	3.3	18
8	Mild reductions in guard cell sucrose synthase 2 expression leads to slower stomatal opening and decreased whole plant transpiration in Nicotiana tabacum L. Environmental and Experimental Botany, 2021, 184, 104370.	4.2	8
9	The utility of metabolomics as a tool to inform maize biology. Plant Communications, 2021, 2, 100187.	7.7	17
10	Establishment of a GCâ€MSâ€based ¹³Câ€positional isotopomer approach suitable for investigating metabolic fluxes in plant primary metabolism. Plant Journal, 2021, 108, 1213-1233.	5.7	18
11	The knowns and unknowns of intracellular partitioning of carbon and nitrogen, with focus on the organic acid-mediated interplay between mitochondrion and chloroplast. Journal of Plant Physiology, 2021, 266, 153521.	3.5	13
12	Control of waterâ€use efficiency by florigen. Plant, Cell and Environment, 2020, 43, 76-86.	5.7	6
13	Changes in intracellular NAD status affect stomatal development in an abscisic acidâ€dependent manner. Plant Journal, 2020, 104, 1149-1168.	5.7	21
14	High Photosynthetic Rates in a Solanum pennellii Chromosome 2 QTL Is Explained by Biochemical and Photochemical Changes. Frontiers in Plant Science, 2020, 11, 794.	3.6	3
15	Eating Away at ROS to Regulate Stomatal Opening. Trends in Plant Science, 2020, 25, 220-223.	8.8	36
16	Modulation of auxin signalling through <i>DIAGETROPICA</i> and <i>ENTIRE</i> differentially affects tomato plant growth via changes in photosynthetic and mitochondrial metabolism. Plant, Cell and Environment, 2019, 42, 448-465.	5.7	17
17	The mitochondrial <scp>NAD</scp>⁺ transporter (<scp>NDT</scp>1) plays important roles in cellular <scp>NAD</scp>⁺ homeostasis in <i>Arabidopsis thaliana</i>. Plant Journal, 2019, 100, 487-504.	5.7	34
18	Metabolomics for understanding stomatal movements. Theoretical and Experimental Plant Physiology, 2019, 31, 91-102.	2.4	18

#	Article	IF	Citations
19	The sucroseâ€toâ€malate ratio correlates with the faster <scp>CO</scp>₂ and light stomatal responses of angiosperms compared to ferns. New Phytologist, 2019, 223, 1873-1887.	7.3	22
20	Transcriptome analysis reveals potential roles of a barley ASR gene that confers stress tolerance in transgenic rice. Journal of Plant Physiology, 2019, 238, 29-39.	3.5	8
21	Metabolite profiles reveal interspecific variation in operation of the Calvinâ€“Benson cycle in both C4 and C3 plants. Journal of Experimental Botany, 2019, 70, 1843-1858.	4.8	47
22	Growth and metabolic adjustments in response to gibberellin deficiency in drought stressed tomato plants. Environmental and Experimental Botany, 2019, 159, 95-107.	4.2	41
23	Insights into ABA-mediated regulation of guard cell primary metabolism revealed by systems biology approaches. Progress in Biophysics and Molecular Biology, 2019, 146, 37-49.	2.9	26
24	Non-aqueous Fractionation (NAF) for Metabolite Analysis in Subcellular Compartments of Arabidopsis Leaf Tissues. Bio-protocol, 2019, 9, e3399.	0.4	4
25	Sucrose breakdown within guard cells provides substrates for glycolysis and glutamine biosynthesis during lightâ€induced stomatal opening. Plant Journal, 2018, 94, 583-594.	5.7	61
26	Modifications in Organic Acid Profiles During Fruit Development and Ripening: Correlation or Causation?. Frontiers in Plant Science, 2018, 9, 1689.	3.6	152
27	Discriminating the Function(s) of Guard Cell ALMT Channels. Trends in Plant Science, 2018, 23, 649-651.	8.8	12
28	The chitosan affects severely the carbon metabolism in mango (Mangifera indica L. cv. Palmer) fruit during storage. Food Chemistry, 2017, 237, 372-378.	8.2	142
29	Metabolism within the specialized guard cells of plants. New Phytologist, 2017, 216, 1018-1033.	7.3	77
30	Impaired Malate and Fumarate Accumulation Due to the Mutation of the Tonoplast Dicarboxylate Transporter Has Little Effects on Stomatal Behavior. Plant Physiology, 2017, 175, 1068-1081.	4.8	51
31	Commonalities and differences in plants deficient in autophagy and alternative pathways of respiration on response to extended darkness. Plant Signaling and Behavior, 2017, 12, e1377877.	2.4	2
32	Autophagy Deficiency Compromises Alternative Pathways of Respiration following Energy Deprivation in <i>Arabidopsis thaliana</i>. Plant Physiology, 2017, 175, 62-76.	4.8	98
33	The influence of alternative pathways of respiration that utilize branchedâ€chain amino acids following water shortage in <i>Arabidopsis</i>. Plant, Cell and Environment, 2016, 39, 1304-1319.	5.7	139
34	Enhanced Photosynthesis and Growth in <i>atquac1</i> Knockout Mutants Are Due to Altered Organic Acid Accumulation and an Increase in Both Stomatal and Mesophyll Conductance. Plant Physiology, 2016, 170, 86-101.	4.8	77
35	Utilizing systems biology to unravel stomatal function and the hierarchies underpinning its control. Plant, Cell and Environment, 2015, 38, 1457-1470.	5.7	31
36	Elevated carbon assimilation and metabolic reprogramming in tomato high pigment mutants support the increased production of pigments. Plant Cell Reports, 0, , .	5.6	0