Helenice Mercier

List of Publications by Year
in descending order

67 papers	1,316 citations	304368 22 h-index	414034 32 g-index
67 all docs	67 docs citations	67 times ranked	1192 citing authors

#	Article	IF	Citations
1	Microbial activities and foliar uptake of nitrogen in the epiphytic bromeliad Vriesea gigantea. New Phytologist, 2007, 175, 311-320.	3.5	88
2	Nitric Oxide Mediates the Hormonal Control of Crassulacean Acid Metabolism Expression in Young Pineapple Plants. Plant Physiology, 2010, 152, 1971-1985.	2.3	80
3	Specific leaf areas of the tank bromeliad Guzmania monostachia perform distinct functions in response to water shortage. Journal of Plant Physiology, 2010, 167, 526-533.	1.6	80
4	Nitrogen fluxes from treefrogs to tank epiphytic bromeliads: an isotopic and physiological approach. Oecologia, 2010, 162, 941-949.	0.9	49
5	Endogenous auxin and cytokinin contents associated with shoot formation in leaves of pineapple cultured in vitro. Brazilian Journal of Plant Physiology, 2003, 15, 107-112.	0.5	48
6	Abscisic acid and nitric oxide signaling in two different portions of detached leaves of Guzmania monostachia with CAM up-regulated by drought. Journal of Plant Physiology, 2013, 170, 996-1002.	1.6	48
7	Cytokinins and auxin communicate nitrogen availability as long-distance signal molecules in pineapple (Ananas comosus). Journal of Plant Physiology, 2007, 164, 1543-1547.	1.6	47
8	Effects of NO3-, NH4+ and urea nutrition on endogenous levels of IAA and four cytokinins in two epiphytic bromeliads. Plant, Cell and Environment, 1997, 20, 387-392.	2.8	45
9	Amino acid uptake and profile in bromeliads with different habits cultivated in vitro. Plant Physiology and Biochemistry, 2003, 41, 181-187.	2.8	37
10	The Control of Storage Xyloglucan Mobilization in Cotyledons of Hymenaea courbaril. Plant Physiology, 2004, 135, 287-299.	2.3	36
11	Spatial patterns of photosynthesis in thin- and thick-leaved epiphytic orchids: unravelling C3â€“CAM plasticity in an organ-compartmented way. Annals of Botany, 2013, 112, 17-29.	1.4	32
12	Temperature determines the occurrence of CAM or C3 photosynthesis in pineapple plantlets grown in vitro. In Vitro Cellular and Developmental Biology - Plant, 2005, 41, 832-837.	0.9	30
13	Ammonium and urea as nitrogen sources for bromeliads. Journal of Plant Physiology, 2001, 158, 205-212.	1.6	29
14	Relationships between endogenous hormonal levels and axillary bud development of Ananas comosus nodal segments. Plant Physiology and Biochemistry, 2003, 41, 733-739.	2.8	29
15	Correlation between citric acid and nitrate metabolisms during CAM cycle in the atmospheric bromeliad Tillandsia pohliana. Journal of Plant Physiology, 2010, 167, 1577-1583.	1.6	29
16	Nitrogen metabolism in leaves of a tank epiphytic bromeliad: Characterization of a spatial and functional division. Journal of Plant Physiology, 2011, 168, 1208-1216.	1.6	28
17	INFLUENCE OF NITROGEN FORMS ON THE GROWTH AND NITROGEN METABOLISM OF BROMELIADS. Journal of Plant Nutrition, 2001, 24, 29-42.	0.9	26
18	Effects of Auxin, Cytokinin and Ethylene Treatments on the Endogenous Ethylene and Auxin-to-cytokinins Ratio Related to direct Root Tip Conversion of Catasetum fimbriatum Lindl. (Orchidaceae) into Buds. Journal of Plant Physiology, 1999, 155, 551-555.	1.6	25

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19	Spider-fed bromeliads: seasonal and interspecific variation in plant performance. Annals of Botany, 2011, 107, 1047-1055.	1.4	24
20	Glutamine enhances competence for organogenesis in pineapple leaves cultivated in vitro. Brazilian Journal of Plant Physiology, 2005, 17, 383-389.	0.5	23
21	Detection of urease in the cell wall and membranes from leaf tissues of bromeliad species. Physiologia Plantarum, 2009, 136, 86-93.	2.6	23
22	Thermoperiod affects the diurnal cycle of nitrate reductase expression and activity in pineapple plants by modulating the endogenous levels of cytokinins. Physiologia Plantarum, 2009, 137, 201-212.	2.6	23
23	Implications of leaf ontogeny on drought-induced gradients of CAM expression and ABA levels in rosettes of the epiphytic tank bromeliad Guzmania monostachia. Plant Physiology and Biochemistry, 2016, 108, 400-411.	2.8	23
24	Water and nutrient uptake capacity of leaf-absorbing trichomes vs. roots in epiphytic tank bromeliads. Environmental and Experimental Botany, 2019, 163, 112-123.	2.0	23
25	Adjustments in CAM and enzymatic scavenging of H2O2 in juvenile plants of the epiphytic bromeliad Guzmania monostachia as affected by drought and rewatering. Plant Physiology and Biochemistry, 2017, 113, 32-39.	2.8	21
26	Differential capacity of nitrogen assimilation between apical and basal leaf portions of a tank epiphytic bromeliad. Brazilian Journal of Plant Physiology, 2007, 19, 119-126.	0.5	20
27	LEVELS OF NITROGEN ASSIMILATION IN BROMELIADS WITH DIFFERENT GROWTH HABITS. Journal of Plant Nutrition, 2001, 24, 1387-1398.	0.9	19
28	Tissue culture and plant propagation of Gomphrena officinalis ? a Brazilian medicinal plant. Plant Cell, Tissue and Organ Culture, 1992, 28, 249-254.	1.2	18
29	The contribution of weak CAM to the photosynthetic metabolic activities of a bromeliad species under water deficit. Plant Physiology and Biochemistry, 2018, 123, 297-303.	2.8	18
30	Effects of Nitrogen Source on Growth Rates and Levels of Endogenous Cytokinins and Chlorophyll in Protocorms of Epidendrum fulgens. Journal of Plant Physiology, 1991, 138, 195-199.	1.6	17
31	Ammonium intensifies CAM photosynthesis and counteracts drought effects by increasing malate transport and antioxidant capacity in Guzmania monostachia. Journal of Experimental Botany, 2018, 69, 1993-2003.	2.4	17
32	Alteration of Hormonal Levels in a Rootless Epiphytic Bromeliad in Different Phenological Phases. Journal of Plant Growth Regulation, 1999, 18, 121-125.	2.8	16
33	CAM Photosynthesis in Bromeliads and Agaves: What Can We Learn from These Plants?. , 0, , .		16
34	Spatial division of phosphoenolpyruvate carboxylase and nitrate reductase activity and its regulation by cytokinins in CAM-induced leaves of Guzmania monostachia (Bromeliaceae). Journal of Plant Physiology, 2013, 170, 1067-1074.	1.6	15
35	Trade-off between soluble protein production and nutritional storage in Bromeliaceae. Annals of Botany, 2016, 118, 1199-1208.	1.4	12
36	Impact of tank formation on distribution and cellular organization of trichomes within Guzmania monostachia rosette. Flora: Morphology, Distribution, Functional Ecology of Plants, 2018, 243, 11-18.	0.6	12

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37	Connecting Environmental Stimuli and Crassulacean Acid Metabolism Expression: Phytohormones and Other Signaling Molecules. Progress in Botany Fortschritte Der Botanik, 2012, , 231-255.	0.1	12
38	Effect of abscisic acid on galactomannan degradation and endo-Î²-mannanase activity in seeds of Sesbania virgata (Cav.) Pers. (Leguminosae). Trees - Structure and Function, 2006, 20, 669-678.	0.9	11
39	Caesium, potassium and ammonium distributions in different organs of tropical plants. Environmental and Experimental Botany, 2009, 65, 111-118.	2.0	11
40	Phyllosphere Bacteria Improve Animal Contribution to Plant Nutrition. Biotropica, 2014, 46, 170-174.	0.8	11
41	Thinking of the leaf as a whole plant: How does N metabolism occur in a plant with foliar nutrient uptake?. Environmental and Experimental Botany, 2020, 178, 104163.	2.0	11
42	In Vitro Nitrogen Nutrition and Hormonal Pattern in Bromeliads. In Vitro Cellular and Developmental Biology - Plant, 2002, 38, 481.	0.9	10
43	Gomphrena Species (Globe Amaranth): In Vitro Culture and Production of Secondary Metabolites. Biotechnology in Agriculture and Forestry, 1994, , 257-270.	0.2	9
44	Alternative fluorimetric-based method to detect and compare total S-nitrosothiols in plants. Nitric Oxide - Biology and Chemistry, 2017, 68, 7-13.	1.2	9
45	Antioxidant capacity along the leaf blade of the C3-CAM facultative bromeliad Guzmania monostachia under water deficit conditions. Functional Plant Biology, 2018, 45, 620.	1.1	9
46	Involvement of aquaporins on nitrogen-acquisition strategies of juvenile and adult plants of an epiphytic tank-forming bromeliad. Planta, 2019, 250, 319-332.	1.6	9
47	Low temperature acclimation and de-acclimation of the subtropical bromeliad Nidularium minutum: Implications of changes in the NO, sugar content and NR activity. Environmental and Experimental Botany, 2019, 159, 34-43.	2.0	9
48	Interactions Between Nutrients and Crassulacean Acid Metabolism. Progress in Botany Fortschritte Der Botanik, 2014, , 167-186.	0.1	8
49	Nitrate enhancement of <scp>CAM</scp> activity in two <i>KalanchoÃ«</i> species is associated with increased vacuolar proton transport capacity. Physiologia Plantarum, 2017, 160, 361-372.	2.6	8
50	What does the RuBisCO activity tell us about a C3-CAM plant?. Plant Physiology and Biochemistry, 2020, 147, 172-180.	2.8	8
51	Transcriptional foliar profile of the C3-CAM bromeliad Guzmania monostachia. PLoS ONE, 2019, 14, e0224429.	1.1	7
52	Effects of different ammoniacal nitrogen sources on N-metabolism of the atmospheric bromeliad Tillandsia pohliana Mez. Revista Brasileira De Botanica, 2001, 24, 407-413.	0.5	7
53	Utilization of urea by leaves of bromeliad Vriesea gigantea under water deficit: much more than a nitrogen source. Biologia Plantarum, 2017, 61, 751-762.	1.9	6
54	Diurnal modulation of PEPCK decarboxylation activity impacts photosystem II light-energy use in a drought-induced CAM species. Environmental and Experimental Botany, 2020, 173, 104003.	2.0	6

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55	Phytohormones and Nitric Oxide Interactions During Abiotic Stress Responses. , 2014, , 211-224.		5
56	Axillary bud development in pineapple nodal segments correlates with changes on cell cycle gene expression, hormone level, and sucrose and glutamate contents. In Vitro Cellular and Developmental Biology - Plant, 2010, 46, 281-288.	0.9	4
57	CAM-Like Traits in C3 Plants: Biochemistry and Stomatal Behavior. Progress in Botany Fortschritte Der Botanik, 2015, , 195-209.	0.1	4
58	How does a C3 epiphytic tank bromeliad respond to drought?. Botanical Journal of the Linnean Society, 2020, 192, 855-867.	0.8	4
59	Proton and anion transport across the tonoplast vesicles in bromeliad species. Functional Plant Biology, 2017, 44, 646.	1.1	3
60	Crassulacean Acid Metabolism in Epiphytic Orchids: Current Knowledge, Future Perspectives. , 2012, , .		2
61	Report from the 2nd World Congress of Bromeliaceae Evolution â€“ BromEvo II (Natal, Brazil, 2018). Botanical Journal of the Linnean Society, 2020, 192, 587-588.	0.8	2
62	Transcriptomic and Biochemical Analysis Reveal Integrative Pathways Between Carbon and Nitrogen Metabolism in Guzmania monostachia (Bromeliaceae) Under Drought. Frontiers in Plant Science, 2021, 12, 715289.	1.7	2
63	An Overview of Water and Nutrient Uptake by Epiphytic Bromeliads: New Insights into the Absorptive Capability of Leaf Trichomes and Roots. Progress in Botany Fortschritte Der Botanik, 2022, , .	0.1	2
64	Urea in Plants: Metabolic Aspects and Ecological Implications. Progress in Botany Fortschritte Der Botanik, 2019, , 157-187.	0.1	1
65	Hormonal Interactions Underlying Plant Development under Drought. , 2016, , 51-73.		0
66	An overview of the Sixth International Conference on the Comparative Biology of Monocotyledons - Monocots VI - Natal, Brazil, 2018. Rodriguesia, 0, 72, .	0.9	0
67	In vitro nitrogen nutrition and hormonal pattern in bromeliads. In Vitro Cellular and Developmental Biology - Plant, 2002, 38, 481-486.	0.9	0