Carla I P S Antonio

List of Publications by Year
in descending order

46 papers	2,277 citations	394421 19 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	3736 citing authors

#	Article	IF	Citations
1	JUNGBRUNNEN1, a Reactive Oxygen Speciesâ€“Responsive NAC Transcription Factor, Regulates Longevity in Arabidopsis. Plant Cell, 2012, 24, 482-506.	6.6	512
2	Mass spectrometryâ€based plant metabolomics: Metabolite responses to abiotic stress. Mass Spectrometry Reviews, 2016, 35, 620-649.	5.4	254
3	Molecular mechanisms of desiccation tolerance in the resurrection glacial relic Haberlea rhodopensis. Cellular and Molecular Life Sciences, 2013, 70, 689-709.	5.4	168
4	Metabolomic applications of HILICâ€“LCâ€“MS. Mass Spectrometry Reviews, 2010, 29, 671-684.	5.4	151
5	Cowpea (Vigna unguiculata L. Walp.) Metabolomics: Osmoprotection as a Physiological Strategy for Drought Stress Resistance and Improved Yield. Frontiers in Plant Science, 2017, 8, 586.	3.6	130
6	Regulation of Primary Metabolism in Response to Low Oxygen Availability as Revealed by Carbon and Nitrogen Isotope Redistribution. Plant Physiology, 2016, 170, 43-56.	4.8	105
7	Mass spectrometry as a quantitative tool in plant metabolomics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150370.	3.4	98
8	Hydrophilic interaction chromatography/electrospray mass spectrometry analysis of carbohydrateâ€related metabolites from Arabidopsis thaliana leaf tissue. Rapid Communications in Mass Spectrometry, 2008, 22, 1399-1407.	1.5	95
9	Impact of the Carbon and Nitrogen Supply on Relationships and Connectivity between Metabolism and Biomass in a Broad Panel of Arabidopsis Accessions Â Â. Plant Physiology, 2013, 162, 347-363.	4.8	87
10	Quantification of sugars and sugar phosphates in Arabidopsis thaliana tissues using porous graphitic carbon liquid chromatography-electrospray ionization mass spectrometry. Journal of Chromatography A, 2007, 1172, 170-178.	3.7	85
11	Polysaccharideâ€Derived Carbons for Polar Analyte Separations. Advanced Functional Materials, 2010, 20, 1834-1841.	14.9	82
12	Analysis of carbohydrates in Lupinus albus stems on imposition of water deficit, using porous graphitic carbon liquid chromatography-electrospray ionization mass spectrometry. Journal of Chromatography A, 2008, 1187, 111-118.	3.7	58
13	GC-TOF-MS analysis reveals salt stress-responsive primary metabolites in Casuarina glauca tissues. Metabolomics, 2017, 13, 1.	3.0	36
14	Initial water deficit effects on Lupinus albus photosynthetic performance, carbon metabolism, and hormonal balance: metabolic reorganization prior to early stress responses. Journal of Experimental Botany, 2011, 62, 4965-4974.	4.8	33
15	Structured patterns in geographic variability of metabolic phenotypes in Arabidopsis thaliana. Nature Communications, 2012, 3, 1319.	12.8	31
16	Experimental Design and Sample Preparation in Forest Tree Metabolomics. Metabolites, 2019, 9, 285.	2.9	29
17	Mass spectrometryâ€based forest tree metabolomics. Mass Spectrometry Reviews, 2021, 40, 126-157.	5.4	25
18	Drought response of cowpea (Vigna unguiculata (L.) Walp.) landraces at leaf physiological and metabolite profile levels. Environmental and Experimental Botany, 2020, 175, 104060.	4.2	24

#	Article	IF	Citations
19	Metabolic efficiency underpins performance trade-offs in growth of Arabidopsis thaliana. Nature Communications, 2014, 5, 3537.	12.8	23
20	Salt-stress secondary metabolite signatures involved in the ability of Casuarina glauca to mitigate oxidative stress. Environmental and Experimental Botany, 2019, 166, 103808.	4.2	20
21	Drought Stress Tolerance in Plants: Insights from Metabolomics. , 2016, , 187-216.		18
22	A molecular approach to droughtâ€induced reduction in leaf CO 2 exchange in droughtâ€resistant Quercus ilex. Physiologia Plantarum, 2018, 162, 394-408.	5.2	18
23	Pinus Susceptibility to Pitch Canker Triggers Specific Physiological Responses in Symptomatic Plants: An Integrated Approach. Frontiers in Plant Science, 2019, 10, 509.	3.6	18
24	Analysis of the Interface between Primary and Secondary Metabolism in Catharanthus roseus Cell Cultures Using 13C-Stable Isotope Feeding and Coupled Mass Spectrometry. Molecular Plant, 2013, 6, 581-584.	8.3	16
25	Primary Metabolite Profile Changes in Coffea spp. Promoted by Single and Combined Exposure to Drought and Elevated CO2 Concentration. Metabolites, 2021, 11, 427.	2.9	15
26	Defenceâ€related pathways, phytohormones and primary metabolism are key players in kiwifruit plant tolerance to Pseudomonas syringae pv. actinidiae. Plant, Cell and Environment, 2022, 45, 528-541.	5.7	15
27	Pinus pinaster Early Hormonal Defence Responses to Pinewood Nematode (Bursaphelenchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.9	14
28	An integrated approach to understand the mechanisms underlying salt stress tolerance in Casuarina glauca and its relation with nitrogen-fixing Frankia Thr. Symbiosis, 2016, 70, 111-116.	2.3	13
29	Quantification and structural characterization of raffinose family oligosaccharides in Casuarina glauca plant tissues by porous graphitic carbon electrospray quadrupole ion trap mass spectrometry. International Journal of Mass Spectrometry, 2017, 413, 127-134.	1.5	13
30	Aphid infestation in the phyllosphere affects primary metabolic profiles in the arbuscular mycorrhizal hyphosphere. Scientific Reports, 2018, 8, 14442.	3.3	13
31	Stem metabolism under drought stress â€“ a paradox of increasing respiratory substrates and decreasing respiratory rates. Physiologia Plantarum, 2021, 172, 391-404.	5.2	12
32	Activity in the Arbuscular Mycorrhizal Hyphosphere Warning Neighbouring Plants. Frontiers in Plant Science, 2019, 10, 511.	3.6	8
33	Analysis of low abundant trehalose-6-phosphate and related metabolites in Medicago truncatula by hydrophilic interaction liquid chromatographyâ€“triple quadrupole mass spectrometry. Journal of Chromatography A, 2016, 1477, 30-38.	3.7	7
34	Characterization of the Primary Metabolome of Brachystegia boehmii and Colophospermum mopane under Different Fire Regimes in Miombo and Mopane African Woodlands. Frontiers in Plant Science, 2017, 8, 2130.	3.6	7
35	Plant Metabolomics in a Changing World: Metabolite Responses to Abiotic Stress Combinations. , 0, , .		7
36	Primary Metabolite Adjustments Associated With Pinewood Nematode Resistance in Pinus pinaster. Frontiers in Plant Science, 2021, 12, 777681.	3.6	6

#	Article	IF	Citations
37	Standard Key Steps in Mass Spectrometry-Based Plant Metabolomics Experiments: Instrument Performance and Analytical Method Validation. Methods in Molecular Biology, 2018, 1778, 19-31.	0.9	5
38	Distinctive phytohormonal and metabolic profiles of Arabidopsis thaliana and Eutrema salsugineum under similar soil drying. Planta, 2019, 249, 1417-1433.	3.2	5
39	Genomics of Drought. , 2016, , 85-135.		4
40	Oxygen Consumption Under Hypoxic Conditions. Plant Cell Monographs, 2014, , 185-208.	0.4	4
41	Erratum to â€œAnalysis of carbohydrates in Lupinus albus stems on imposition of water deficit, using porous graphitic carbon liquid chromatographyâ€“electrospray ionization mass spectrometryâ€•[J. Chromatogr. A 1187 (2008) 111â€“118]. Journal of Chromatography A, 2008, 1201, 132.	3.7	3
42	Will Casuarina glauca Stress Resilience Be Maintained in the Face of Climate Change?. Metabolites, 2021, 11, 593.	2.9	3
43	Application of Carbonaceous Materials in Separation Science. RSC Green Chemistry, 2015, , 103-126.	0.1	3
44	Quantification of Low-Abundant Phosphorylated Carbohydrates Using HILIC-QqQ-MS/MS. Methods in Molecular Biology, 2018, 1778, 71-86.	0.9	2
45	Porous Graphitic Carbon Liquid Chromatographyâ€“Mass Spectrometry Analysis of Drought Stress-Responsive Raffinose Family Oligosaccharides in Plant Tissues. Methods in Molecular Biology, 2017, 1631, 279-293.	0.9	1
46	Mass Spectrometry in Glycobiology. RSC Biomolecular Sciences, 2007, , 210-233.	0.4	1