

Sebastien C Carpentier

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,453
citations

186265
28
h-index

214800
47
g-index

65
all docs

65
docs citations

65
times ranked

3411
citing authors

#	ARTICLE	IF	CITATIONS
1	Proteome analysis of non-model plants: A challenging but powerful approach. <i>Mass Spectrometry Reviews</i> , 2008, 27, 354-377.	5.4	180
2	Fine tuning of trehalose biosynthesis and hydrolysis as novel tools for the generation of abiotic stress tolerant plants. <i>Frontiers in Plant Science</i> , 2014, 5, 147.	3.6	145
3	Overexpression of the Trehalase Gene <i>AtTRE1</i> Leads to Increased Drought Stress Tolerance in <i>Arabidopsis</i> and Is Involved in Abscisic Acid-Induced Stomatal Closure. <i>Plant Physiology</i> , 2013, 161, 1158-1171.	4.8	117
4	Plant Phenotyping Research Trends, a Science Mapping Approach. <i>Frontiers in Plant Science</i> , 2018, 9, 1933.	3.6	113
5	Banana (<i>Musa</i> spp.) as a model to study the meristem proteome: Acclimation to osmotic stress. <i>Proteomics</i> , 2007, 7, 92-105.	2.2	110
6	Addressing the Challenge of Defining Valid Proteomic Biomarkers and Classifiers. <i>BMC Bioinformatics</i> , 2010, 11, 594.	2.6	108
7	Screening the banana biodiversity for drought tolerance: can an in vitro growth model and proteomics be used as a tool to discover tolerant varieties and understand homeostasis. <i>Frontiers in Plant Science</i> , 2012, 3, 176.	3.6	96
8	Did backcrossing contribute to the origin of hybrid edible bananas?. <i>Annals of Botany</i> , 2010, 106, 849-857.	2.9	79
9	Proteomic analysis of core breakdown disorder in Conference pears (<i>Pyrus communis</i> L.). <i>Proteomics</i> , 2007, 7, 2083-2099.	2.2	74
10	The impact of slow stomatal kinetics on photosynthesis and water use efficiency under fluctuating light. <i>Plant Physiology</i> , 2021, 186, 998-1012.	4.8	71
11	A decade of plant proteomics and mass spectrometry: Translation of technical advancements to food security and safety issues. <i>Mass Spectrometry Reviews</i> , 2013, 32, 335-365.	5.4	70
12	The quest for tolerant varieties: the importance of integrating omics techniques to phenotyping. <i>Frontiers in Plant Science</i> , 2015, 6, 448.	3.6	67
13	Somatic Embryogenesis in Coffee: The Evolution of Biotechnology and the Integration of Omics Technologies Offer Great Opportunities. <i>Frontiers in Plant Science</i> , 2017, 8, 1460.	3.6	64
14	Structure and regulation of the <i>Asr</i> gene family in banana. <i>Planta</i> , 2011, 234, 785-798.	3.2	59
15	Treatment of missing values for multivariate statistical analysis of gel-based proteomics data. <i>Proteomics</i> , 2008, 8, 1371-1383.	2.2	56
16	Transpiration efficiency versus growth: Exploring the banana biodiversity for drought tolerance. <i>Scientia Horticulturae</i> , 2015, 185, 175-182.	3.6	53
17	Aggregating sequences that occur in many proteins constitute weak spots of bacterial proteostasis. <i>Nature Communications</i> , 2018, 9, 866.	12.8	53
18	Functional genomics in a non-model crop: transcriptomics or proteomics?. <i>Physiologia Plantarum</i> , 2008, 133, 117-130.	5.2	50

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19	Functional Proteome Analysis of the Banana Plant (<i>Musa</i> spp.) Using de Novo Sequence Analysis of Derivatized Peptides. <i>Journal of Proteome Research</i> , 2007, 6, 70-80.	3.7	49
20	Lyophilization, a Practical Way to Store and Transport Tissues Prior to Protein Extraction for 2DE Analysis?. <i>Proteomics</i> , 2007, 7, 64-69.	2.2	45
21	Improving the identification rate of data independent label-free quantitative proteomics experiments on non-model crops: A case study on apple fruit. <i>Journal of Proteomics</i> , 2014, 105, 31-45.	2.4	44
22	New insights into the heterogeneous ripening in Hass avocado via LC-MS/MS proteomics. <i>Postharvest Biology and Technology</i> , 2017, 132, 51-61.	6.0	38
23	Integration of proteomics and metabolomics data of early and middle season Hass avocados under heat treatment. <i>Food Chemistry</i> , 2019, 289, 512-521.	8.2	35
24	Homeolog expression analysis in an allotriploid non-model crop via integration of transcriptomics and proteomics. <i>Scientific Reports</i> , 2018, 8, 1353.	3.3	34
25	The use of 2D-electrophoresis and de novo sequencing to characterize inter- and intra-cultivar protein polymorphisms in an allopolyploid crop. <i>Phytochemistry</i> , 2011, 72, 1243-1250.	2.9	33
26	Follicular fluid biomarkers for human in vitro fertilization outcome: Proof of principle. <i>Proteome Science</i> , 2016, 14, 17.	1.7	31
27	Sugar-Mediated Acclimation: The Importance of Sucrose Metabolism in Meristems. <i>Journal of Proteome Research</i> , 2010, 9, 5038-5046.	3.7	30
28	Identification of an enterovirus recombinant with a torovirus-like gene insertion during a diarrhea outbreak in fattening pigs. <i>Virus Evolution</i> , 2017, 3, vex024.	4.9	30
29	Autologous micrograft accelerates endogenous wound healing response through ERK-induced cell migration. <i>Cell Death and Differentiation</i> , 2020, 27, 1520-1538.	11.2	29
30	2D-DIGE reveals changes in wheat xylanase inhibitor protein families due to <i>Fusarium graminearum</i> infection and grain development. <i>Proteomics</i> , 2010, 10, 2303-2319.	2.2	28
31	Challenges and solutions for the identification of membrane proteins in non-model plants. <i>Journal of Proteomics</i> , 2011, 74, 1165-1181.	2.4	28
32	The use of 2D-DIGE to understand the regeneration of somatic embryos in avocado. <i>Proteomics</i> , 2013, 13, 3498-3507.	2.2	25
33	Identification of lanthionine and lysinoalanine in heat-treated wheat gliadin and bovine serum albumin using tandem mass spectrometry with higher-energy collisional dissociation. <i>Amino Acids</i> , 2016, 48, 959-971.	2.7	25
34	Using Growth and Transpiration Phenotyping Under Controlled Conditions to Select Water Efficient Banana Genotypes. <i>Frontiers in Plant Science</i> , 2019, 10, 352.	3.6	25
35	Controlled transgene dosage and PAC-mediated transgenesis in mice using a chromosomal vector. <i>Genomics</i> , 2003, 82, 596-605.	2.9	24
36	The proteome profile of embryogenic cell suspensions of <i>Coffea arabica</i> L.. <i>Proteomics</i> , 2016, 16, 1001-1005.	2.2	22

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37	Identification of dimedone-trapped sulfenylated proteins in plants under stress. <i>Biochemistry and Biophysics Reports</i> , 2017, 9, 106-113.	1.3	21
38	The Enrichment of <i>Histomonas meleagridis</i> and Its Pathogen-Specific Protein Analysis: A First Step to Shed Light on Its Virulence. <i>Avian Diseases</i> , 2016, 60, 628-636.	1.0	20
39	Genotype-Specific Growth and Proteomic Responses of Maize Toward Salt Stress. <i>Frontiers in Plant Science</i> , 2018, 9, 661.	3.6	20
40	Characterizing fruit ripening in plantain and Cavendish bananas: A proteomics approach. <i>Journal of Proteomics</i> , 2020, 214, 103632.	2.4	20
41	Problems inherent to a meta-analysis of proteomics data: A case study on the plants' response to Cd in different cultivation conditions. <i>Journal of Proteomics</i> , 2014, 108, 30-54.	2.4	19
42	A look behind the screens: Characterization of the HSP70 family during osmotic stress in a non-model crop. <i>Journal of Proteomics</i> , 2015, 119, 10-20.	2.4	19
43	A digital sensor to measure real-time leaf movements and detect abiotic stress in plants. <i>Plant Physiology</i> , 2021, 187, 1131-1148.	4.8	17
44	A quantitative portrait of three xylanase inhibiting protein families in different wheat cultivars using 2D-DIGE and multivariate statistical tools. <i>Journal of Proteomics</i> , 2009, 72, 484-500.	2.4	15
45	Unraveling tobacco BY-2 protein complexes with BN PAGE/LC-MS/MS and clustering methods. <i>Journal of Proteomics</i> , 2011, 74, 1201-1217.	2.4	15
46	Distinct autophagy-apoptosis related pathways activated by Multi-walled (NM 400) and Single-walled carbon nanotubes (NIST-SRM2483) in human bronchial epithelial (16HBE14o-) cells. <i>Journal of Hazardous Materials</i> , 2020, 387, 121691.	12.4	15
47	In planta PCR-based detection of early infection of plant-parasitic nematodes in the roots: a step towards the understanding of infection and plant defence. <i>European Journal of Plant Pathology</i> , 2010, 128, 343-351.	1.7	14
48	Proteome Analysis of Orphan Plant Species, Fact or Fiction?. <i>Methods in Molecular Biology</i> , 2014, 1072, 333-346.	0.9	13
49	Data for the characterization of the HSP70 family during osmotic stress in banana, a non-model crop. <i>Data in Brief</i> , 2015, 3, 78-84.	1.0	10
50	Proteome Changes during Transition from Human Embryonic to Vascular Progenitor Cells. <i>Journal of Proteome Research</i> , 2016, 15, 1995-2007.	3.7	10
51	The Plantain Proteome, a Focus on Allele Specific Proteins Obtained from Plantain Fruits. <i>Proteomics</i> , 2018, 18, 1700227.	2.2	10
52	Dawn regulates guard cell proteins in <i>Arabidopsis thaliana</i> that function in ATP production from fatty acid beta-oxidation. <i>Plant Molecular Biology</i> , 2018, 98, 525-543.	3.9	10
53	Proteomic analysis of mashua (<i>Tropaeolum tuberosum</i>) tubers subjected to postharvest treatments. <i>Food Chemistry</i> , 2020, 305, 125485.	8.2	10
54	Breeding Climate-Resilient Bananas. , 2020, , 91-115.		10

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55	Influence of pre-harvest calcium, potassium and triazole application on the proteome of apple at harvest. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 4984-4993.	3.5	8
56	A digital catalog of high-density markers for banana germplasm collections. <i>Plants People Planet</i> , 2022, 4, 61-67.	3.3	7
57	dsRNA Molecules From the Tobacco Mosaic Virus p126 Gene Counteract TMV-Induced Proteome Changes at an Early Stage of Infection. <i>Frontiers in Plant Science</i> , 2021, 12, 663707.	3.6	7
58	The cryoprotectant PVS2 plays a crucial role in germinating <i>Passiflora ligularis</i> embryos after cryopreservation by influencing the mobilization of lipids and the antioxidant metabolism. <i>Journal of Plant Physiology</i> , 2019, 239, 71-82.	3.5	6
59	Identification of rye B chromosome-associated peptides by mass spectrometry. <i>New Phytologist</i> , 2021, 230, 2179-2185.	7.3	6
60	Multiple Testing and Pattern Recognition in 2-DE Proteomics. <i>Methods in Molecular Biology</i> , 2016, 1384, 215-235.	0.9	4
61	Genome-wide BAC-end sequencing of <i>Musa acuminata</i> DH Pahang reveals further insights into the genome organization of banana. <i>Tree Genetics and Genomes</i> , 2011, 7, 933-940.	1.6	3
62	Abiotic Stress Tolerance Research Using-Omics Approaches. , 2016, , 77-91.		1
63	Proteomics analysis reveals new insights into surface pitting of sweet cherry cultivars displaying contrasting susceptibility. <i>Journal of Horticultural Science and Biotechnology</i> , 2022, 97, 615-625.	1.9	1
64	Role of Bioinformatics as a Tool. , 2012, , 194-216.		0