Jacques Bourguignon

List of Publications by Year
in descending order

60 papers	4,234 citations	126907 33 h-index	138484 58 g-index
64 all docs	64 docs citations	64 times ranked	4521 citing authors

#	Article	IF	Citations
1	High-affinity iron and calcium transport pathways are involved in U(VI) uptake in the budding yeast Saccharomyces cerevisiae. Journal of Hazardous Materials, 2022, 422, 126894.	12.4	8
2	Calcium-permeable cation channels are involved in uranium uptake in Arabidopsis thaliana. Journal of Hazardous Materials, 2022, 424, 127436.	12.4	15
3	Characterization of cadmium accumulation and phytoextraction in three species of the genus Atriplex (canescens, halimus and nummularia) in the presence or absence of salt. Plant Physiology and Biochemistry, 2021, 166, 902-911.	5.8	6
4	Protein lysine methylation contributes to modulating the response of sensitive and tolerant Arabidopsis species to cadmium stress. Plant, Cell and Environment, 2020, 43, 760-774.	5.7	6
5	Development of a metalloproteomic approach to analyse the response of Arabidopsis cells to uranium stress. Metallomics, 2020, 12, 1302-1313.	2.4	13
6	How reversible are the effects of silver nanoparticles on macrophages? A proteomic-instructed view. Environmental Science: Nano, 2019, 6, 3133-3157.	4.3	21
7	Uncovering the physiological and cellular effects of uranium on the root system of Arabidopsis thaliana. Environmental and Experimental Botany, 2019, 157, 121-130.	4.2	35
8	<i>Arabidopsis thaliana</i> plants challenged with uranium reveal new insights into iron and phosphate homeostasis. New Phytologist, 2018, 217, 657-670.	7.3	38
9	An outlook on lysine methylation of non-histone proteins in plants. Journal of Experimental Botany, 2018, 69, 4569-4581.	4.8	15
10	Differential <scp><scp>CO₂</scp></scp> effect on primary carbon metabolism of flag leaves in durum wheat (<scp><i>T</i></scp><i>riticum durum</i> Desf.). Plant, Cell and Environment, 2015, 38, 2780-2794.	5.7	29
11	A novel method for determination of the <scp>¹⁵N</scp> isotopic composition of Rubisco in wheat plants exposed to elevated atmospheric carbon dioxide. Physiologia Plantarum, 2015, 153, 195-203.	5.2	3
12	Biochemical and Biophysical Characterization of the Selenium-binding and Reducing Site in Arabidopsis thaliana Homologue to Mammals Selenium-binding Protein 1. Journal of Biological Chemistry, 2014, 289, 31765-31776.	3.4	29
13	Glutathione and transpiration as key factors conditioning oxidative stress in Arabidopsis thaliana exposed to uranium. Planta, 2014, 239, 817-830.	3.2	32
14	Uranium perturbs signaling and iron uptake response in Arabidopsis thaliana roots. Metallomics, 2014, 6, 809-821.	2.4	38
15	Evidence for functional interaction between brassinosteroids and cadmium response in Arabidopsis thaliana. Journal of Experimental Botany, 2012, 63, 1185-1200.	4.8	57
16	Exploring the Plant Response to Cadmium Exposure by Transcriptomic, Proteomic and Metabolomic Approaches: Potentiality of High-Throughput Methods, Promises of Integrative Biology. , 2012, , 119-142.		3
17	Speciation of uranium in plants upon root accumulation and root-to-shoot translocation: A XAS and TEM study. Environmental and Experimental Botany, 2012, 77, 87-95.	4.2	57
18	Influence of uranium speciation on its accumulation and translocation in three plant species: Oilseed rape, sunflower and wheat. Environmental and Experimental Botany, 2012, 77, 96-107.	4.2	79

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19	Investigating the plant response to cadmium exposure by proteomic and metabolomic approaches. Proteomics, 2011, 11, 1650-1663.	2.2	168
20	Plant organelle proteomics: Collaborating for optimal cell function. Mass Spectrometry Reviews, 2011, 30, 772-853.	5.4	89
21	Evidence for the Existence in Arabidopsis thaliana of the Proteasome Proteolytic Pathway. Journal of Biological Chemistry, 2009, 284, 35412-35424.	3.4	101
22	Arabidopsis Putative Selenium-Binding Protein1 Expression Is Tightly Linked to Cellular Sulfur Demand and Can Reduce Sensitivity to Stresses Requiring Glutathione for Tolerance Â. Plant Physiology, 2009, 151, 768-781.	4.8	80
23	Metabolomic investigation of the response of the model plant Arabidopsis thaliana to cadmium exposure: Evaluation of data pretreatment methods for further statistical analyses. Chemometrics and Intelligent Laboratory Systems, 2008, 91, 67-77.	3.5	20
24	The Arabidopsis Putative Selenium-Binding Protein Family: Expression Study and Characterization of SBP1 as a Potential New Player in Cadmium Detoxification Processes Â. Plant Physiology, 2008, 147, 239-251.	4.8	48
25	A Proteomics Dissection of Arabidopsis thaliana Vacuoles Isolated from Cell Culture. Molecular and Cellular Proteomics, 2007, 6, 394-412.	3.8	294
26	A Proteomics Approach Highlights a Myriad of Transporters in theArabidopsis thalianaVacuolar Membrane. Plant Signaling and Behavior, 2007, 2, 413-415.	2.4	9
27	The role of plant mitochondria in the biosynthesis of coenzymes. Photosynthesis Research, 2007, 92, 149-162.	2.9	44
28	Metabolomic, proteomic andÂbiophysical analyses ofÂArabidopsisÂthaliana cells exposed toÂaÂcaesium stress. Influence ofÂpotassium supply. Biochimie, 2006, 88, 1533-1547.	2.6	79
29	Genome-wide transcriptome profiling ofÂtheÂearly cadmium response ofÂArabidopsis roots andÂshoots. Biochimie, 2006, 88, 1751-1765.	2.6	335
30	New insights into theÂregulation ofÂphytochelatin biosynthesis inÂA.Âthaliana cells from metabolite profiling analyses. Biochimie, 2006, 88, 1733-1742.	2.6	29
31	Micro-chemical imaging ofÂcesium distribution inÂArabidopsisÂthaliana plant andÂitsÂinteraction with potassium andÂessential trace elements. Biochimie, 2006, 88, 1583-1590.	2.6	69
32	The early responses ofArabidopsis thaliana cells to cadmium exposure explored by protein and metabolite profiling analyses. Proteomics, 2006, 6, 2180-2198.	2.2	348
33	Localization and chemical forms of cadmium in plant samples by combining analytical electron microscopy and X-ray spectromicroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 1242-1252.	2.9	168
34	Dynamics ofArabidopsis thaliana soluble proteome in response to different nutrient culture conditions. Electrophoresis, 2006, 27, 495-507.	2.4	24
35	A versatile method for deciphering plant membrane proteomes. Journal of Experimental Botany, 2006, 57, 1579-1589.	4.8	33
36	The hydrophobic proteome of mitochondrial membranes from Arabidopsis cell suspensions. Phytochemistry, 2004, 65, 1693-1707.	2.9	135

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37	A survey of the plant mitochondrial proteome in relation to development. Proteomics, 2002, 2, 880.	2.2	152
38	The glycine decarboxylase system: a fascinating complex. Trends in Plant Science, 2001, 6, 167-176.	8.8	391
39	Investigation of seeds with high-resolution solid-state13C NMR. Magnetic Resonance in Chemistry, 2001, 39, 733-738.	1.9	31
40	Interaction between the lipoamide-containing H-protein and the lipoamide dehydrogenase (L-protein) of the glycine decarboxylase multienzyme system. FEBS Journal, 2000, 267, 2890-2898.	0.2	50
41	Interaction between the lipoamide-containing H-protein and the lipoamide dehydrogenase (L-protein) of the glycine decarboxylase multienzyme system. FEBS Journal, 2000, 267, 2882-2889.	0.2	39
42	Fatty Acid and Lipoic Acid Biosynthesis in Higher Plant Mitochondria. Journal of Biological Chemistry, 2000, 275, 5016-5025.	3.4	168
43	Structural and Functional Characterization of H Protein Mutants of the Glycine Decarboxylase Complex. Journal of Biological Chemistry, 1999, 274, 26344-26352.	3.4	14
44	Glycine and serine catabolism in non-photosynthetic higher plant cells: their role in C1 metabolism. Plant Journal, 1999, 20, 197-205.	5.7	111
45	Backbone and sequence-specific assignment of three forms of the lipoate-containing H-protein of the glycine decarboxylase complex. Journal of Biomolecular NMR, 1999, 15, 185-186.	2.8	2
46	Investigation of the Local Structure and Dynamics of the H Subunit of the Mitochondrial Glycine Decarboxylase Using Heteronuclear NMR Spectroscopyâ€. Biochemistry, 1999, 38, 8334-8346.	2.5	23
47	The gene encoding T protein of the glycine decarboxylase complex involved in the mitochondrial step of the photorespiratory pathway in plants exhibits features of light-induced genes. Plant Molecular Biology, 1998, 37, 309-318.	3.9	25
48	Glycine decarboxylase and pyruvate dehydrogenase complexes share the same dihydrolipoamide dehydrogenase in pea leaf mitochondria: evidence from mass spectrometry and primary-structure analysis. Biochemical Journal, 1996, 313, 229-234.	3.7	53
49	Expression, Lipoylation and Structure Determination of Recombinant Pea H-Protein in Escherichia coli. FEBS Journal, 1996, 236, 27-33.	0.2	39
50	The vacuole membrane (tonoplast) from the meristematic cells of Brassica oleracea var. Botrytis contains major intrinsic proteins related to tips: A molecular analysis. Biology of the Cell, 1995, 84, 119-119.	2.0	0
51	The glycine decarboxylase system in higher plant mitochondria: structure, function and biogenesis. Biochemical Society Transactions, 1994, 22, 184-188.	3.4	50
52	Glycine decarboxylase complex from higher plants. Molecular cloning, tissue distribution and mass spectrometry analyses of the T protein. FEBS Journal, 1993, 217, 377-386.	0.2	42
53	Isolation, characterization, and sequence analysis of a cDNA clone encoding L-protein, the dihydrolipoamide dehydrogenase component of the glycine cleavage system from pea-leaf mitochondria. FEBS Journal, 1992, 204, 865-873.	0.2	64
54	Glycine metabolism by plant mitochondria. Physiologia Plantarum, 1990, 80, 487-491.	5.2	59

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55	Interaction between the Component Enzymes of the Glycine Decarboxylase Multienzyme Complex. Plant Physiology, 1990, 94, 833-839.	4.8	121
56	Glycine metabolism by plant mitochondria. Physiologia Plantarum, 1990, 80, 487-491.	5.2	11
57	Effects of LS 82556 on thylakoid activities and photosynthesis: A comparison with paraquat and acifluorfen. Pesticide Biochemistry and Physiology, 1987, 29, 209-216.	3.6	11
58	[37] Isolation of plant mitochondria: General principles and criteria of integrity. Methods in Enzymology, 1987, 148, 403-415.	1.0	146
59	Isolation of a large complex from the matrix of pea leaf mitochondria involved in the rapid transformation of glycine into serine. FEBS Letters, 1986, 207, 18-22.	2.8	65
60	An Overview of theArabidopsis Proteome. , 0, , 141-164.		6