

Diego F GÃ³mez-Casati

List of Publications by Year in descending order

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76
papers

1,857
citations

257450

24
h-index

289244

40
g-index

78
all docs

78
docs citations

78
times ranked

1858
citing authors

#	ARTICLE	IF	CITATIONS
1	Gamma carbonic anhydrases in plant mitochondria. <i>Plant Molecular Biology</i> , 2004, 55, 193-207.	3.9	124
2	Characterization of Arabidopsis Lines Deficient in GAPC-1, a Cytosolic NAD-Dependent Glyceraldehyde-3-Phosphate Dehydrogenase. <i>Plant Physiology</i> , 2008, 148, 1655-1667.	4.8	115
3	Deficiency of Arabidopsis thaliana frataxin alters activity of mitochondrial Fe-S proteins and induces oxidative stress. <i>Plant Journal</i> , 2006, 48, 873-882.	5.7	97
4	ADP-glucose pyrophosphorylase from wheat endosperm. Purification and characterization of an enzyme with novel regulatory properties. <i>Planta</i> , 2002, 214, 428-434.	3.2	91
5	Characterization of an Arabidopsis thaliana mutant lacking a cytosolic non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase. <i>Plant Molecular Biology</i> , 2006, 61, 945-957.	3.9	82
6	Metabolomics in Plants and Humans: Applications in the Prevention and Diagnosis of Diseases. <i>BioMed Research International</i> , 2013, 2013, 1-11.	1.9	76
7	Starch metabolism in green algae. <i>Starch/Staerke</i> , 2014, 66, 28-40.	2.1	73
8	Nitric oxide accumulation is required to protect against iron-mediated oxidative stress in frataxin-deficient Arabidopsis plants. <i>FEBS Letters</i> , 2009, 583, 542-548.	2.8	72
9	Gamma carbonic anhydrase like complex interact with plant mitochondrial complex I. <i>Plant Molecular Biology</i> , 2004, 56, 947-957.	3.9	66
10	Role of the N-Terminal Starch-Binding Domains in the Kinetic Properties of Starch Synthase III from <i>Arabidopsis thaliana</i> . <i>Biochemistry</i> , 2008, 47, 3026-3032.	2.5	66
11	Functional and molecular characterization of the frataxin homolog from <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2004, 576, 141-144.	2.8	56
12	Effect of Mitochondrial Dysfunction on Carbon Metabolism and Gene Expression in Flower Tissues of <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2011, 4, 127-143.	8.3	48
13	Functional and structural characterization of the catalytic domain of the starch synthase III from <i>Arabidopsis thaliana</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 31-40.	2.6	42
14	The starch-binding capacity of the noncatalytic SBD2 region and the interaction between the N- and C-terminal domains are involved in the modulation of the activity of starch synthase III from <i>Arabidopsis thaliana</i> . <i>FEBS Journal</i> , 2010, 277, 428-440.	4.7	42
15	Identification of Functionally Important Amino-Terminal Arginines of <i>Agrobacterium tumefaciens</i> ADP-Glucose Pyrophosphorylase by Alanine Scanning Mutagenesis. <i>Biochemistry</i> , 2001, 40, 10169-10178.	2.5	41
16	A mitochondrial dysfunction induces the expression of nuclear-encoded complex I genes in engineered male sterile <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2002, 532, 70-74.	2.8	38
17	The mitochondrial protein frataxin is essential for heme biosynthesis in plants. <i>FEBS Journal</i> , 2011, 278, 470-481.	4.7	37
18	Exploring frataxin function. <i>IUBMB Life</i> , 2012, 64, 56-63.	3.4	37

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19	Structural and Functional Studies of the Mitochondrial Cysteine Desulfurase from <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2012, 5, 1001-1010.	8.3	36
20	Frataxin Is Localized to Both the Chloroplast and Mitochondrion and Is Involved in Chloroplast Fe-S Protein Function in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2015, 10, e0141443.	2.5	36
21	Ultrasensitive behavior in the synthesis of storage polysaccharides in cyanobacteria. <i>Planta</i> , 2003, 216, 969-975.	3.2	35
22	Starch-synthase III family encodes a tandem of three starch-binding domains. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 65, 27-31.	2.6	35
23	Structural and kinetic characterization of NADP-dependent, non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase from celery leaves. <i>Plant Science</i> , 2000, 154, 107-115.	3.6	29
24	The E3 ubiquitin-ligase SEVEN IN ABSENTIA like 7 mono-ubiquitinates glyceraldehyde-3-phosphate dehydrogenase 1 isoform in vitro and is required for its nuclear localization in <i>Arabidopsis thaliana</i> . <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 70, 48-56.	2.8	27
25	The ADP-glucose pyrophosphorylase from <i>Escherichia coli</i> comprises two tightly bound distinct domains. <i>FEBS Letters</i> , 2004, 573, 99-104.	2.8	25
26	The PAP/SAL1 retrograde signaling pathway is involved in iron homeostasis. <i>Plant Molecular Biology</i> , 2020, 102, 323-337.	3.9	22
27	The mitochondrial proteins AtHscB and AtIlu1 involved in Fe-S cluster assembly interact with the Hsp70-type chaperon AtHscA2 and modulate its catalytic activity. <i>Mitochondrion</i> , 2014, 19, 375-381.	3.4	21
28	Expression and one-step purification of recombinant <i>Arabidopsis thaliana</i> frataxin homolog (AtFH). <i>Protein Expression and Purification</i> , 2007, 51, 157-161.	1.3	20
29	An enzyme-coupled continuous spectrophotometric assay for glycogen synthases. <i>Molecular Biology Reports</i> , 2012, 39, 585-591.	2.3	18
30	ULTRASENSITIVITY IN (SUPRA)MOLECULARLY ORGANIZED AND CROWDED ENVIRONMENTS. <i>Cell Biology International</i> , 2001, 25, 1091-1099.	3.0	17
31	Ferrochelataze activity of plant frataxin. <i>Biochimie</i> , 2019, 156, 118-122.	2.6	17
32	Polysaccharide-synthesizing Glycosyltransferases and Carbohydrate Binding Modules: the case of Starch Synthase III. <i>Protein and Peptide Letters</i> , 2013, 20, 856-863.	0.9	17
33	Characterization of a novel Kazal-type serine proteinase inhibitor of <i>Arabidopsis thaliana</i> . <i>Biochimie</i> , 2016, 123, 85-94.	2.6	16
34	Functional demonstrations of starch binding domains present in <i>Ostreococcus tauri</i> starch synthases isoforms. <i>BMC Research Notes</i> , 2015, 8, 613.	1.4	15
35	Preferential binding of SBD from <i>Arabidopsis thaliana</i> SSIII to polysaccharides: Study of amino acid residues involved. <i>Starch/Staerke</i> , 2011, 63, 451-460.	2.1	14
36	Altered levels of AtHSCB disrupts iron translocation from roots to shoots. <i>Plant Molecular Biology</i> , 2016, 92, 613-628.	3.9	14

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37	Plant Frataxin in Metal Metabolism. <i>Frontiers in Plant Science</i> , 2018, 9, 1706.	3.6	13
38	Measurement of the glycogen synthetic pathway in permeabilized cells of cyanobacteria. <i>FEMS Microbiology Letters</i> , 2001, 194, 7-11.	1.8	12
39	The targeting of starch binding domains from starch synthase III to the cell wall alters cell wall composition and properties. <i>Plant Molecular Biology</i> , 2017, 93, 121-135.	3.9	12
40	Characterization of the Arabidopsis thaliana E3 Ubiquitin-Ligase AtSINAL7 and Identification of the Ubiquitination Sites. <i>PLoS ONE</i> , 2013, 8, e73104.	2.5	11
41	Identification and characterization of a novel starch branching enzyme from the picoalgae <i>Ostreococcus tauri</i> . <i>Archives of Biochemistry and Biophysics</i> , 2017, 618, 52-61.	3.0	11
42	Identification of two frataxin isoforms in <i>Zea mays</i> : Structural and functional studies. <i>Biochimie</i> , 2017, 140, 34-47.	2.6	11
43	Altered levels of mitochondrial NFS1 affect cellular Fe and S contents in plants. <i>Plant Cell Reports</i> , 2019, 38, 981-990.	5.6	11
44	Nuclear-encoded mitochondrial complex I gene expression is restored to normal levels by inhibition of unedited ATP9 transgene expression in Arabidopsis thaliana. <i>Plant Physiology and Biochemistry</i> , 2006, 44, 1-6.	5.8	10
45	Identification of a novel starch synthase III from the picoalgae <i>Ostreococcus tauri</i> . <i>Biochimie</i> , 2017, 133, 37-44.	2.6	10
46	Starch Synthesis in <i>Ostreococcus tauri</i> : The Starch-Binding Domains of Starch Synthase III-B Are Essential for Catalytic Activity. <i>Frontiers in Plant Science</i> , 2018, 9, 1541.	3.6	9
47	Over-expression of SINAL7 increases biomass and drought tolerance, and also delays senescence in Arabidopsis. <i>Journal of Biotechnology</i> , 2018, 283, 11-21.	3.8	9
48	Studies on the Effect of Temperature on the Activity and Stability of Cyanobacterial ADP-Glucose Pyrophosphorylase. <i>Archives of Biochemistry and Biophysics</i> , 2000, 384, 319-326.	3.0	8
49	Copper redox chemistry of plant frataxins. <i>Journal of Inorganic Biochemistry</i> , 2018, 180, 135-140.	3.5	8
50	Iron-Sulfur Cluster Complex Assembly in the Mitochondria of Arabidopsis thaliana. <i>Plants</i> , 2020, 9, 1171.	3.5	8
51	Heterologous expression of non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase from <i>Triticum aestivum</i> and Arabidopsis thaliana. <i>Biochimie</i> , 2010, 92, 909-913.	2.6	7
52	Research on Plants for the Understanding of Diseases of Nuclear and Mitochondrial Origin. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-12.	3.0	7
53	Improving the glycosyltransferase activity of <i>Agrobacterium tumefaciens</i> glycogen synthase by fusion of N-terminal starch binding domains (SBDs). <i>Biochimie</i> , 2013, 95, 1865-1870.	2.6	7
54	Omics Approaches for the Engineering of Pathogen Resistant Plants. <i>Current Issues in Molecular Biology</i> , 2016, 19, 89-98.	2.4	7

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55	A simple laboratory experiment for the teaching of the assay and kinetic characterization of enzymes. <i>Biochemical Education</i> , 1997, 25, 106-109.	0.1	6
56	Mitochondrial dysfunction affects chloroplast functions. <i>Plant Signaling and Behavior</i> , 2011, 6, 1904-1907.	2.4	6
57	Characterization of SdGA, a cold-adapted glucoamylase from <i>Saccharophagus degradans</i> . <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 30, e00625.	4.4	6
58	CBM20CP, a novel functional protein of starch metabolism in green algae. <i>Plant Molecular Biology</i> , 2022, 108, 363-378.	3.9	6
59	Applications of Bioinformatics to Plant Biotechnology. <i>Current Issues in Molecular Biology</i> , 2018, 27, 89-104.	2.4	6
60	On the interaction of substrate analogues with non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase from celery leaves. <i>Plant Science</i> , 2002, 162, 689-696.	3.6	5
61	Identification and analysis of OsttaDSP, a phosphoglucan phosphatase from <i>Ostreococcus tauri</i> . <i>PLoS ONE</i> , 2018, 13, e0191621.	2.5	5
62	PAP/SAL1 retrograde signaling pathway modulates iron deficiency response in alkaline soils. <i>Plant Science</i> , 2021, 304, 110808.	3.6	5
63	Fe-S Protein Synthesis in Green Algae Mitochondria. <i>Plants</i> , 2021, 10, 200.	3.5	4
64	Starch Metabolism in Green Plants. , 2015, , 329-376.		4
65	The Significance of Metabolomics in Human Health. , 2016, , 89-100.		3
66	Editorial: Metallic Micronutrient Homeostasis in Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 927.	3.6	3
67	Study of Oxidative Stress and Genotoxicity by Arsenic Contamination in <i>Glycine max. L.</i> <i>International Journal of Plant & Soil Science</i> , 2015, 8, 1-15.	0.2	3
68	A simple method for the addition of rotenone in <i>Arabidopsis thaliana</i> leaves. <i>Plant Signaling and Behavior</i> , 2015, 10, e1073871.	2.4	2
69	Development of fast and simple chromogenic methods for glucan phosphatases in-gel activity assays. <i>Analytical Biochemistry</i> , 2017, 517, 36-39.	2.4	2
70	Identification and characterization of ChlreSEX4, a novel glucan phosphatase from <i>Chlamydomonas reinhardtii</i> green alga. <i>Archives of Biochemistry and Biophysics</i> , 2020, 680, 108235.	3.0	1
71	Starch Metabolism in Green Plants. , 2014, , 1-42.		1
72	Contribution of Yeast and Plant Research for Improving Human Health. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-2.	3.0	0

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73	Molecular basis of clinical metabolomics. , 2020, , 47-55.		0
74	Interaction Between Plant Secondary Metabolites and the Human Metabolome. , 2021, , 526-531.		0
75	Drugs for the Treatment of Mitochondrial Diseases. Current Chemical Biology, 2019, 13, 19-24.	0.5	0
76	Functional and Structural Characterization of a Novel Isoamylase from <i>Ostreococcus tauri</i> and Role of the N-Terminal Domain. Open Biotechnology Journal, 2020, 14, 1-11.	1.2	0