

MarÃ-a Victoria Busi

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,202
citations

430874

18
h-index

395702

33
g-index

52
all docs

52
docs citations

52
times ranked

1301
citing authors

#	ARTICLE	IF	CITATIONS
1	MADS-box genes expressed during tomato seed and fruit development. <i>Plant Molecular Biology</i> , 2003, 52, 801-815.	3.9	144
2	Deficiency of <i>Arabidopsis thaliana</i> frataxin alters activity of mitochondrial Fe-S proteins and induces oxidative stress. <i>Plant Journal</i> , 2006, 48, 873-882.	5.7	97
3	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
4	Starch metabolism in green algae. <i>Starch/Staerke</i> , 2014, 66, 28-40.	2.1	73
5	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
6	Functional and molecular characterization of the frataxin homolog from <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2004, 576, 141-144.	2.8	56
7	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
8	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
9	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
10	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
11	The mitochondrial protein frataxin is essential for heme biosynthesis in plants. <i>FEBS Journal</i> , 2011, 278, 470-481.	4.7	37
12	Exploring frataxin function. <i>IUBMB Life</i> , 2012, 64, 56-63.	3.4	37
13	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
14	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
15	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
16	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
17	The mitochondrial proteins AtHscB and AtIsc1 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
18	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

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19	An enzyme-coupled continuous spectrophotometric assay for glycogen synthases. <i>Molecular Biology Reports</i> , 2012, 39, 585-591.	2.3	18
20	Ferrochelatase activity of plant frataxin. <i>Biochimie</i> , 2019, 156, 118-122.	2.6	17
21	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
22	Characterization of a novel Kazal-type serine proteinase inhibitor of <i>Arabidopsis thaliana</i> . <i>Biochimie</i> , 2016, 123, 85-94.	2.6	16
23	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
24	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
25	Altered levels of AtHSCB disrupts iron translocation from roots to shoots. <i>Plant Molecular Biology</i> , 2016, 92, 613-628.	3.9	14
26	Plant Frataxin in Metal Metabolism. <i>Frontiers in Plant Science</i> , 2018, 9, 1706.	3.6	13
27	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
28	Characterization of the <i>Arabidopsis thaliana</i> E3 Ubiquitin-Ligase AtSINAL7 and Identification of the Ubiquitination Sites. <i>PLoS ONE</i> , 2013, 8, e73104.	2.5	11
29	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
30	Identification of two frataxin isoforms in <i>Zea mays</i> : Structural and functional studies. <i>Biochimie</i> , 2017, 140, 34-47.	2.6	11
31	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
32	Nuclear-encoded mitochondrial complex I gene expression is restored to normal levels by inhibition of unedited ATP9 transgene expression in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2006, 44, 1-6.	5.8	10
33	Identification of a novel starch synthase III from the picoalgae <i>Ostreococcus tauri</i> . <i>Biochimie</i> , 2017, 133, 37-44.	2.6	10
34	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
35	Over-expression of SINAL7 increases biomass and drought tolerance, and also delays senescence in <i>Arabidopsis</i> . <i>Journal of Biotechnology</i> , 2018, 283, 11-21.	3.8	9
36	Iron-Sulfur Cluster Complex Assembly in the Mitochondria of <i>Arabidopsis thaliana</i> . <i>Plants</i> , 2020, 9, 1171.	3.5	8

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37	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
38	Mitochondrial dysfunction affects chloroplast functions. <i>Plant Signaling and Behavior</i> , 2011, 6, 1904-1907.	2.4	6
39	Characterization of SdGA, a cold-adapted glucoamylase from <i>Saccharophagus degradans</i> . <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 30, e00625.	4.4	6
40	CBM20CP, a novel functional protein of starch metabolism in green algae. <i>Plant Molecular Biology</i> , 2022, 108, 363-378.	3.9	6
41	Identification and analysis of OsttaDSP, a phosphoglucan phosphatase from <i>Ostreococcus tauri</i> . <i>PLoS ONE</i> , 2018, 13, e0191621.	2.5	5
42	Fe-S Protein Synthesis in Green Algae Mitochondria. <i>Plants</i> , 2021, 10, 200.	3.5	4
43	Starch Metabolism in Green Plants. , 2015, , 329-376.		4
44	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
45	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
46	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
47	Starch Metabolism in Green Plants. , 2014, , 1-42.		1
48	Molecular basis of clinical metabolomics. , 2020, , 47-55.		0
49	Interaction Between Plant Secondary Metabolites and the Human Metabolome. , 2021, , 526-531.		0
50	Drugs for the Treatment of Mitochondrial Diseases. <i>Current Chemical Biology</i> , 2019, 13, 19-24.	0.5	0
51	Functional and Structural Characterization of a Novel Isoamylase from <i>Ostreococcus tauri</i> and Role of the N-Terminal Domain. <i>Open Biotechnology Journal</i> , 2020, 14, 1-11.	1.2	0