Eduardo JuliÃ¡n Zabaleta

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/367125/publications.pdf

Version: 2024-02-01

43 papers	2,222 citations	218592 26 h-index	265120 42 g-index
43 all docs	43 docs citations	43 times ranked	2309 citing authors

#	Article	IF	Citations
1	Disruption of a Nuclear Gene Encoding a Mitochondrial Gamma Carbonic Anhydrase Reduces Complex I and Supercomplex I+III2 Levels and Alters Mitochondrial Physiology in Arabidopsis. Journal of Molecular Biology, 2005, 350, 263-277.	2.0	174
2	Carbonic Anhydrase Subunits Form a Matrix-exposed Domain Attached to the Membrane Arm of Mitochondrial Complex I in Plants. Journal of Biological Chemistry, 2006, 281, 6482-6488.	1.6	169
3	Heat stress induces ferroptosis-like cell death in plants. Journal of Cell Biology, 2017, 216, 463-476.	2.3	162
4	MADS-box genes expressed during tomato seed and fruit development. Plant Molecular Biology, 2003, 52, 801-815.	2.0	144
5	Gamma carbonic anhydrases in plant mitochondria. Plant Molecular Biology, 2004, 55, 193-207.	2.0	124
6	Deficiency of Arabidopsis thaliana frataxin alters activity of mitochondrial Fe-S proteins and induces oxidative stress. Plant Journal, 2006, 48, 873-882.	2.8	97
7	oiwa, a Female Gametophytic Mutant Impaired in a Mitochondrial Manganese-Superoxide Dismutase, Reveals Crucial Roles for Reactive Oxygen Species during Embryo Sac Development and Fertilization in Arabidopsis Â Â. Plant Cell, 2013, 25, 1573-1591.	3.1	96
8	Physiological, biochemical and molecular aspects of mitochondrial complex I in plants. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1364, 101-111.	0.5	92
9	A basal carbon concentrating mechanism in plants?. Plant Science, 2012, 187, 97-104.	1.7	79
10	Nitric oxide, nitrosyl iron complexes, ferritin and frataxin: A well equipped team to preserve plant iron homeostasis. Plant Science, 2011, 181, 582-592.	1.7	76
11	Nitric oxide accumulation is required to protect against ironâ€mediated oxidative stress in frataxinâ€deficient Arabidopsis plants. FEBS Letters, 2009, 583, 542-548.	1.3	72
12	Impairment of tapetum and mitochondria in engineered male-sterile tobacco plants. Plant Molecular Biology, 1998, 36, 499-508.	2.0	69
13	Gamma carbonic anhydrase like complex interact with plant mitochondrial complex I. Plant Molecular Biology, 2004, 56, 947-957.	2.0	66
14	Carbonic anhydrase subunits of the mitochondrial NADH dehydrogenase complex (complex I) in plants. Physiologia Plantarum, 2007, 129, 114-122.	2.6	64
15	Functional and molecular characterization of the frataxin homolog fromArabidopsis thaliana,. FEBS Letters, 2004, 576, 141-144.	1.3	56
16	Transgenic male-sterile plant induced by an unedited atp9 gene is restored to fertility by inhibiting its expression with antisense RNA.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 11259-11263.	3.3	53
17	Effect of Mitochondrial Dysfunction on Carbon Metabolism and Gene Expression in Flower Tissues of Arabidopsis thaliana. Molecular Plant, 2011, 4, 127-143.	3.9	48
18	Antisense expression of chaperonin 60beta in transgenic tobacco plants leads to abnormal phenotypes and altered distribution of photoassimilates. Plant Journal, 1994, 6, 425-432.	2.8	47

#	Article	IF	Citations
19	Functional characterization of mutants affected in the carbonic anhydrase domain of the respiratory complexÂI in <scp>A</scp>rabidopsis thaliana. Plant Journal, 2015, 83, 831-844.	2.8	46
20	A mitochondrial alkaline/neutral invertase isoform (A/N-InvC) functions in developmental energy-demanding processes in Arabidopsis. Planta, 2013, 237, 813-822.	1.6	44
21	Recombinant plant gamma carbonic anhydrase homotrimers bind inorganic carbon. FEBS Letters, 2009, 583, 3425-3430.	1.3	43
22	A mitochondrial dysfunction induces the expression of nuclear-encoded complex I genes in engineered male sterile Arabidopsis thaliana. FEBS Letters, 2002, 532, 70-74.	1.3	38
23	Ectopic expression of mitochondrial gamma carbonic anhydrase 2 causes male sterility by anther indehiscence. Plant Molecular Biology, 2009, 70, 471-485.	2.0	38
24	The CA domain of the respiratory complex I is required for normal embryogenesis inArabidopsis thaliana. Journal of Experimental Botany, 2016, 67, 1589-1603.	2.4	34
25	Nitric oxide and frataxin: two players contributing to maintain cellular iron homeostasis. Annals of Botany, 2010, 105, 801-810.	1.4	33
26	Ferroptosis in plants: triggers, proposed mechanisms, and the role of iron in modulating cell death. Journal of Experimental Botany, 2021, 72, 2125-2135.	2.4	30
27	The carbonic anhydrase domain of plant mitochondrial complex I. Physiologia Plantarum, 2016, 157, 289-296.	2.6	29
28	Role of mitochondria during female gametophyte development and fertilization in A. thaliana. Mitochondrion, 2014, 19, 350-356.	1.6	26
29	Isolation and characterization of genes encoding chaperonin 60Î² from Arabidopsis thaliana. Gene, 1992, 111, 175-181.	1.0	25
30	Transcription signals of mitochondrial and nuclear genes for mitochondrial proteins in dicot plants. , 1999, 90, 345-350.		21
31	Expression and one-step purification of recombinant Arabidopsis thaliana frataxin homolog (AtFH). Protein Expression and Purification, 2007, 51, 157-161.	0.6	20
32	New insights into the functional roles of reactive oxygen species during embryo sac development and fertilization inArabidopsis thaliana. Plant Signaling and Behavior, 2013, 8, e25714.	1.2	19
33	Expression of one of the members of the Arabidopsis chaperonin 60? gene family is developmentally regulated and wound-repressible. Plant Molecular Biology, 1994, 24, 195-202.	2.0	13
34	Mitochondrial Pentatricopeptide Repeat Protein, EMB2794, Plays a Pivotal Role in NADH Dehydrogenase Subunit nad2 mRNA Maturation in Arabidopsis thaliana. Plant and Cell Physiology, 2020, 61, 1080-1094.	1.5	12
35	Gamma carbonic anhydrases are subunits of the mitochondrial complex I of diatoms. Molecular Microbiology, 2021, 116, 109-125.	1.2	11
36	Nuclear-encoded mitochondrial complex I gene expression is restored toÂnormal levels byÂinhibition ofÂunedited ATP9 transgene expression inÂArabidopsisÂthaliana. Plant Physiology and Biochemistry, 2006, 44, 1-6.	2.8	10

#	Article	IF	Citations
37	Ferroptosis in plants: regulation of lipid peroxidation and redox status. Biochemical Journal, 2022, 479, 857-866.	1.7	10
38	Roles of cytochromes P450 in plant reproductive development. International Journal of Developmental Biology, 2021, 65, 187-194.	0.3	8
39	Different Types Domains are Present in Complex I from Immature Seeds and of CA Adult Plants in Arabidopsis thaliana. Plant and Cell Physiology, 2019, 60, 986-998.	1.5	7
40	Heat stress in Marchantia polymorpha : Sensing and mechanisms underlying a dynamic response. Plant, Cell and Environment, 2020, 44, 2134-2149.	2.8	7
41	A mitochondrial ADXRâ€“ADXâ€“P450 electron transport chain is essential for maternal gametophytic control of embryogenesis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6
42	Inheritance of an induced male-sterile trait in transgenic plants expressing an engineered unedited atp9 mitochondrial gene. Theoretical and Applied Genetics, 1999, 98, 614-621.	1.8	3
43	Measuring and Perturbing Ferroptosis in Plants. Methods in Molecular Biology, 2022, 2447, 185-192.	0.4	1