Donato Pastore

List of Publications by Year
in descending order

54 papers	1,876 citations	279701 23 h-index	254106 43 g-index
54 all docs	54 docs citations	54 times ranked	1961 citing authors

#	Article	IF	Citations
1	Increase of proton electrochemical potential and ATP synthesis in rat liver mitochondria irradiated in vitro by heliumâ€neon laser. FEBS Letters, 1984, 175, 95-99.	1.3	433
2	Possible plant mitochondria involvement in cell adaptation to drought stress: A case study: durum wheat mitochondria. Journal of Experimental Botany, 2006, 58, 195-210.	2.4	172
3	The Existence of the K+ Channel in Plant Mitochondria. Journal of Biological Chemistry, 1999, 274, 26683-26690.	1.6	107
4	Seeds of pomegranate, tomato and grapes: An underestimated source of natural bioactive molecules and antioxidants from agri-food by-products. Journal of Food Composition and Analysis, 2017, 63, 65-72.	1.9	68
5	Effects of fatty acids, nucleotides and reactive oxygen species on durum wheat mitochondria. FEBS Letters, 2000, 470, 88-92.	1.3	66
6	Alternative Oxidase in Durum Wheat Mitochondria. Activation by Pyruvate, Hydroxypyruvate and Glyoxylate and Physiological Role. Plant and Cell Physiology, 2001, 42, 1373-1382.	1.5	66
7	Carotenoid Dependent Inhibition of Durum Wheat Lipoxygenase. Journal of Cereal Science, 1999, 29, 99-102.	1.8	51
8	Seawater stress applied at germination affects mitochondrial function in durum wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.1	45
9	Shades of red: Comparative study on supercritical CO 2 extraction of lycopene-rich oleoresins from gac, tomato and watermelon fruits and effect of the Î±-cyclodextrin clathrated extracts on cultured lung adenocarcinoma cellsâ€™ viability. Journal of Food Composition and Analysis, 2018, 65, 23-32.	1.9	44
10	The uncoupling protein and the potassium channel are activated by hyperosmotic stress in mitochondria from durum wheat seedlings. Plant, Cell and Environment, 2004, 27, 437-448.	2.8	43
11	Inhibition by Î±-Tocopherol and L-Ascorbate of Linoleate Hydroperoxidation and Î²-Carotene Bleaching Activities in Durum Wheat Semolina. Journal of Cereal Science, 2000, 31, 41-54.	1.8	40
12	Isolated Durum Wheat and Potato Cell Mitochondria Oxidize Externally Added NADH Mostly via the Malate/Oxaloacetate Shuttle with a Rate That Depends on the Carrier-Mediated Transport. Plant Physiology, 2003, 133, 2029-2039.	2.3	38
13	Plant Inner Membrane Anion Channel (PIMAC) Function in Plant Mitochondria. Plant and Cell Physiology, 2008, 49, 1039-1055.	1.5	35
14	Activation of the plant mitochondrial potassium channel by free fatty acids and acyl-CoA esters: a possible defence mechanism in the response to hyperosmotic stress. Journal of Experimental Botany, 2011, 62, 141-154.	2.4	35
15	Antioxidant Activity of Free and Bound Compounds in Quinoa (Chenopodium quinoa Willd.) Seeds in Comparison with Durum Wheat and Emmer. Journal of Food Science, 2012, 77, C1150-5.	1.5	34
16	The quantum yield of photosynthetic electron transport evaluated by chlorophyll fluorescence as an indicator of drought tolerance in durum wheat. Journal of Agricultural Science, 1995, 125, 325-329.	0.6	32
17	Reactive oxygen species inhibit the succinate oxidation-supported generation of membrane potential in wheat mitochondria. FEBS Letters, 2002, 516, 15-19.	1.3	32
18	Photochemical quenching of chlorophyll fluorescence and drought tolerance in different durum wheat (Triticum durum) cultivars. Journal of Agricultural Science, 1994, 122, 183-192.	0.6	31

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19	Increase of Membrane Permeability of Mitochondria Isolated from Water Stress Adapted Potato Cells. Bioscience Reports, 2001, 21, 81-91.	1.1	26
20	The existence of phospholipase A2 activity in plant mitochondria and its activation by hyperosmotic stress in durum wheat (Triticum durum Desf.). Plant Science, 2013, 199-200, 91-102.	1.7	26
21	Modulation of Potassium Channel Activity in the Balance of ROS and ATP Production by Durum Wheat Mitochondriaâ€"An Amazing Defense Tool Against Hyperosmotic Stress. Frontiers in Plant Science, 2015, 6, 1072.	1.7	26
22	Pressureâ€volume curves and drought resistance in two wheat genotypes. Physiologia Plantarum, 1988, 73, 122-127.	2.6	25
23	Different effectiveness of two pastas supplemented with either lipophilic or hydrophilic/phenolic antioxidants in affecting serum as evaluated by the novel Antioxidant/Oxidant Balance approach. Food Chemistry, 2017, 221, 278-288.	4.2	25
24	The maintenance of photosynthetic electron transport in relation to osmotic adjustment in durum wheat cultivars differing in drought resistance. Plant Science, 1996, 118, 127-133.	1.7	24
25	Mitochondrial proline oxidation is affected by hyperosmotic stress in durum wheat seedlings. Annals of Applied Biology, 2010, 157, 1-11.	1.3	24
26	ATP-Sensitive Cation-channel in Wheat (Triticum durum Desf.): Identification and Characterization of a Plant Mitochondrial Channel by Patch-clamp. Cellular Physiology and Biochemistry, 2010, 26, 975-982.	1.1	23
27	Stay-green trait-antioxidant status interrelationship in durum wheat (Triticum durum) flag leaf during post-flowering. Journal of Plant Research, 2014, 127, 159-171.	1.2	23
28	New Tool To Evaluate a Comprehensive Antioxidant Activity in Food Extracts: Bleaching of 4-Nitroso-N,N-dimethylaniline Catalyzed by Soybean Lipoxygenase-1. Journal of Agricultural and Food Chemistry, 2009, 57, 9682-9692.	2.4	20
29	Dissection of antioxidant activity of durum wheat (Triticum durum Desf.) grains as evaluated by the new LOX/RNO method. Journal of Cereal Science, 2012, 56, 214-222.	1.8	19
30	Substrate oxidation and ADP/ATP exchange in coupled durum wheat (Triticum durumDesf.) mitochondria. Plant Biosystems, 1999, 133, 219-228.	0.8	18
31	Evaluation of Phenolic Antioxidant Capacity in Grains of Modern and Old Durum Wheat Genotypes by the Novel QUENCHERABTS Approach. Plant Foods for Human Nutrition, 2015, 70, 207-214.	1.4	17
32	Antioxidant/Oxidant Balance as a novel approach to evaluate the effect on serum of long-term intake of plant antioxidant-rich foods. Journal of Functional Foods, 2018, 40, 778-784.	1.6	17
33	Potassium channelâ€oxidative phosphorylation relationship in durum wheat mitochondria from control and hyperosmoticâ€stressed seedlings. Plant, Cell and Environment, 2011, 34, 2093-2108.	2.8	16
34	Chemical, physical and sensorial characterization of fresh quinoa sprouts (Chenopodium quinoa) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 and Shelf Life, 2017, 14, 52-58.	3.3	16
35	Increase in <--H+/e- ratio of the cytochrome c oxidase reaction in mitochondria irradiated with helium-neon laser. IUBMB Life, 1994, 34, 817-26.	0.1	16
36	Assessment of Antioxidant Capacity and Putative Healthy Effects of Natural Plant Products Using Soybean Lipoxygenase-Based Methods. An Overview. Molecules, 2018, 23, 3244.	1.7	15

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37	Heliumâ€"neon laser irradiation of rat liver mitochondria gives rise to a new subpopulation of mitochondria: Isolation and first biochemical characterization. Journal of Photochemistry and Photobiology B: Biology, 1991, 10, 71-78.	1.7	12
38	Plant uncoupling protein in mitochondria from aged-dehydrated slices of Jerusalem artichoke tubers becomes sensitive to superoxide and to hydrogen peroxide without increase in protein level. Biochimie, 2006, 88, 179-188.	1.3	12
39	The Transcript Levels of two Plant Mitochondrial Uncoupling Protein (pUCP)-Related Genes are not Affected by Hyperosmotic Stress in Durum Wheat Seedlings Showing an Increased Level of pUCP Activity. Bioscience Reports, 2006, 26, 251-261.	1.1	12
40	Transport Pathwaysâ€"Proton Motive Force Interrelationship in Durum Wheat Mitochondria. International Journal of Molecular Sciences, 2014, 15, 8186-8215.	1.8	12
41	The soybean lipoxygenase-fluorescein reaction may be used to assess antioxidant capacity of phytochemicals and serum. Analytical Methods, 2016, 8, 4354-4362.	1.3	12
42	p-Nitrosodimethylaniline (RNO) bleaching bysoybean lipoxygenase-1. Biochemical characterization andcoupling with oxodiene formation. Plant Physiology and Biochemistry, 2000, 38, 845-852.	2.8	11
43	The uniqueness of the plant mitochondrial potassium channel. BMB Reports, 2013, 46, 391-397.	1.1	11
44	The Effect of Sulforaphane on Glyoxalase I Expression and Activity in Peripheral Blood Mononuclear Cells. Nutrients, 2018, 10, 1773.	1.7	10
45	A new simple fluorimetric method to assay cytosolic ATP content: application to durum wheat seedlings to assess modulation of mitochondrial potassium channel and uncoupling protein activity under hyperosmotic stress. Biologia (Poland), 2013, 68, 421-432.	0.8	9
46	Measuring Activity of Native Plant Sirtuins - The Wheat Mitochondrial Model. Frontiers in Plant Science, 2018, 9, 961.	1.7	7
47	Antioxidant/Oxidant Balance: Application as a biomarker of the antioxidant status in plasma of ewes fed seaweed Ascophyllum nodosum and flaxseed under high ambient temperature. Small Ruminant Research, 2019, 170, 102-108.	0.6	6
48	Antioxidant capacity of durum wheat large flour particles may be evaluated by QUENCHER_{ABTS}assay by adopting a proper calculation mode. Cereal Research Communications, 2015, 43, 682-691.	0.8	5
49	Serum antioxidant capacity and peroxide level of seven healthy subjects after consumption of different foods. Data in Brief, 2016, 9, 818-822.	0.5	4
50	An improved spectrophotometric phospholipase A2 assay using 1-palmitoyl-2-linoleoyl-sn-glycero-3-phosphatidylcholine as substrate and lipoxygenase as coupled enzyme. Journal of the Korean Society for Applied Biological Chemistry, 2013, 56, 369-376.	0.9	2
51	Effects of Milling-process and pasta making on ABTSâ€¢+scavenging activity of hydrophilic and lipophilic extracts of durum wheat varieties. Cereal Research Communications, 2013, 41, 482-492.	0.8	2
52	The Puzzle of the Molecular Identification of Mitochondrial Potassium Channels: Progress in Animals and Impasse in Plants. Bioenergetics: Open Access, 2014, 02, .	0.1	1
53	Plant Mitochondria are Sensitive to Helium-Neon Laser Light. Giornale Botanico Italiano (Florence,) Tj ETQq1 1 0.784314 rgBT /Overlo	0.0	0
54	He-Ne laser irradiation influences oxidative phosphorylation in isolated rat liver mitochondria in vitro. , 1985, , .		0