

Marino B Arnao

List of Publications by Citations

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105
papers

7,388
citations

44
h-index

85
g-index

111
ext. papers

8,887
ext. citations

4.9
avg, IF

6.83
L-index

#	Paper	IF	Citations
105	The hydrophilic and lipophilic contribution to total antioxidant activity. <i>Food Chemistry</i> , 2001 , 73, 239-248.	4.5	791
104	Functions of melatonin in plants: a review. <i>Journal of Pineal Research</i> , 2015 , 59, 133-50	10.4	433
103	Melatonin: plant growth regulator and/or biostimulator during stress?. <i>Trends in Plant Science</i> , 2014 , 19, 789-97	13.1	343
102	Some methodological problems in the determination of antioxidant activity using chromogen radicals: a practical case. <i>Trends in Food Science and Technology</i> , 2000 , 11, 419-421	15.3	325
101	Melatonin: A New Plant Hormone and/or a Plant Master Regulator?. <i>Trends in Plant Science</i> , 2019 , 24, 38-48	13.1	282
100	An end-point method for estimation of the total antioxidant activity in plant material. <i>Phytochemical Analysis</i> , 1998 , 9, 196-202	3.4	264
99	Protective effect of melatonin against chlorophyll degradation during the senescence of barley leaves. <i>Journal of Pineal Research</i> , 2009 , 46, 58-63	10.4	240
98	Melatonin: a growth-stimulating compound present in lupin tissues. <i>Planta</i> , 2004 , 220, 140-4	4.7	232
97	Melatonin and its relationship to plant hormones. <i>Annals of Botany</i> , 2018 , 121, 195-207	4.1	228
96	A kinetic study on the suicide inactivation of peroxidase by hydrogen peroxide. <i>BBA - Proteins and Proteomics</i> , 1990 , 1041, 43-7		223
95	Melatonin acts as a growth-stimulating compound in some monocot species. <i>Journal of Pineal Research</i> , 2005 , 39, 137-42	10.4	218
94	Melatonin promotes adventitious- and lateral root regeneration in etiolated hypocotyls of <i>Lupinus albus</i> L. <i>Journal of Pineal Research</i> , 2007 , 42, 147-52	10.4	199
93	The physiological function of melatonin in plants. <i>Plant Signaling and Behavior</i> , 2006 , 1, 89-95	2.5	187
92	Inactivation of peroxidase by hydrogen peroxide and its protection by a reductant agent. <i>BBA - Proteins and Proteomics</i> , 1990 , 1038, 85-9		138
91	Inhibition by L-ascorbic acid and other antioxidants of the 2.2'-azino-bis(3-ethylbenzthiazoline-6-sulfonic acid) oxidation catalyzed by peroxidase: a new approach for determining total antioxidant status of foods. <i>Analytical Biochemistry</i> , 1996 , 236, 255-61	3.1	133
90	Chemical stress by different agents affects the melatonin content of barley roots. <i>Journal of Pineal Research</i> , 2009 , 46, 295-9	10.4	127
89	Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H ₂ O ₂ . <i>Biochemical Journal</i> , 2001 , 354, 107-114	3.8	127

88	Methods to measure the antioxidant activity in plant material. A comparative discussion. <i>Free Radical Research</i> , 1999 , 31 Suppl, S89-96	4	118
87	Hydrophilic and lipophilic antioxidant activity changes during on-vine ripening of tomatoes (<i>Lycopersicon esculentum</i> Mill.). <i>Postharvest Biology and Technology</i> , 2003 , 28, 59-65	6.2	113
86	A method to measure antioxidant activity in organic media: application to lipophilic vitamins. <i>Redox Report</i> , 2000 , 5, 365-70	5.9	101
85	Growth conditions determine different melatonin levels in <i>Lupinus albus</i> L. <i>Journal of Pineal Research</i> , 2013 , 55, 149-55	10.4	99
84	Melatonin and Its Effects on Plant Systems. <i>Molecules</i> , 2018 , 23,	4.8	86
83	Distribution of melatonin in different zones of lupin and barley plants at different ages in the presence and absence of light. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 10567-73	5.7	83
82	Melatonin stimulates the expansion of etiolated lupin cotyledons. <i>Plant Growth Regulation</i> , 2008 , 55, 29-34	3.2	79
81	Melatonin and Its Protective Role against Biotic Stress Impacts on Plants. <i>Biomolecules</i> , 2019 , 10,	5.9	75
80	Growth conditions influence the melatonin content of tomato plants. <i>Food Chemistry</i> , 2013 , 138, 1212-48.5		74
79	Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. <i>Biochemical Journal</i> , 2000 , 348, 321-328	3.8	74
78	A comparative study of the purity, enzyme activity, and inactivation by hydrogen peroxide of commercially available horseradish peroxidase isoenzymes A and C. <i>Biotechnology and Bioengineering</i> , 1996 , 50, 655-62	4.9	71
77	An enzymatic colorimetric method for measuring naringin using 2,2'-azino-bis-(3-ethylbenzthiazoline-6-sulfonic acid)(ABTS) in the presence of peroxidase. <i>Analytical Biochemistry</i> , 1990 , 185, 335-8	3.1	68
76	Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H ₂ O ₂ . <i>Biochemical Journal</i> , 2001 , 354, 107-14	3.8	67
75	Phytomelatonin: Discovery, Content, and Role in Plants. <i>Advances in Botany</i> , 2014 , 2014, 1-11		66
74	Melatonin and reactive oxygen and nitrogen species: a model for the plant redox network. <i>Melatonin Research</i> , 2019 , 2, 152-168	5.1	65
73	Growth activity, rooting capacity, and tropism: three auxinic precepts fulfilled by melatonin. <i>Acta Physiologiae Plantarum</i> , 2017 , 39, 1	2.6	63
72	A peroxidase isoenzyme secreted by turnip (<i>Brassica napus</i>) hairy-root cultures: inactivation by hydrogen peroxide and application in diagnostic kits. <i>Biotechnology and Applied Biochemistry</i> , 2002 , 35, 1-7	2.8	62
71	Free radical-scavenging activity of indolic compounds in aqueous and ethanolic media. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 376, 33-7	4.4	62

70	The inactivation and catalytic pathways of horseradish peroxidase with m-chloroperoxybenzoic acid. A spectrophotometric and transient kinetic study. <i>Journal of Biological Chemistry</i> , 1997 , 272, 5469-76	5.4	60
69	Relationship of Melatonin and Salicylic Acid in Biotic/Abiotic Plant Stress Responses. <i>Agronomy</i> , 2018 , 8, 33	3.6	58
68	Reactions of the class II peroxidases, lignin peroxidase and <i>Arthromyces ramosus</i> peroxidase, with hydrogen peroxide. Catalase-like activity, compound III formation, and enzyme inactivation. <i>Journal of Biological Chemistry</i> , 2002 , 277, 26879-85	5.4	58
67	Melatonin in flowering, fruit set and fruit ripening. <i>Plant Reproduction</i> , 2020 , 33, 77-87	3.9	56
66	A comparative study of the inactivation of wild-type, recombinant and two mutant horseradish peroxidase isoenzymes C by hydrogen peroxide and m-chloroperoxybenzoic acid. <i>FEBS Journal</i> , 1995 , 234, 506-12		54
65	Is Phytomelatonin a New Plant Hormone?. <i>Agronomy</i> , 2020 , 10, 95	3.6	54
64	Catalase-like oxygen production by horseradish peroxidase must predominantly be an enzyme-catalyzed reaction. <i>Archives of Biochemistry and Biophysics</i> , 2001 , 392, 295-302	4.1	51
63	Estimation of free radical-quenching activity of leaf pigment extracts. <i>Phytochemical Analysis</i> , 2001 , 12, 138-43	3.4	49
62	Detection of a tryptophan radical in the reaction of ascorbate peroxidase with hydrogen peroxide. <i>FEBS Journal</i> , 2001 , 268, 3091-8		45
61	On-line antioxidant activity determination: comparison of hydrophilic and lipophilic antioxidant activity using the ABTS*+ assay. <i>Redox Report</i> , 2002 , 7, 103-9	5.9	42
60	Assessment of different sample processing procedures applied to the determination of melatonin in plants. <i>Phytochemical Analysis</i> , 2009 , 20, 14-8	3.4	41
59	Hydrophilic and Lipophilic Antioxidant Activity in Different Leaves of Three Lettuce Varieties. <i>International Journal of Food Properties</i> , 2005 , 8, 521-528	3	40
58	The inactivation of horseradish peroxidase isoenzyme A2 by hydrogen peroxide: an example of partial resistance due to the formation of a stable enzyme intermediate. <i>Journal of Biological Inorganic Chemistry</i> , 2001 , 6, 504-16	3.7	39
57	The Potential of Phytomelatonin as a Nutraceutical. <i>Molecules</i> , 2018 , 23,	4.8	38
56	Chemical and functional properties of the different by-products of artichoke (<i>Cynara scolymus</i> L.) from industrial canning processing. <i>Food Chemistry</i> , 2014 , 160, 134-40	8.5	38
55	Melatonin Suppressed the Heat Stress-Induced Damage in Wheat Seedlings by Modulating the Antioxidant Machinery. <i>Plants</i> , 2020 , 9,	4.5	35
54	Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. <i>Biochemical Journal</i> , 2000 , 348, 321	3.8	31
53	Superoxide scavenging by polyphenols: effect of conjugation and dimerization. <i>Redox Report</i> , 2002 , 7, 379-83	5.9	30

52	Melatonin-Induced Water Stress Tolerance in Plants: Recent Advances. <i>Antioxidants</i> , 2020 , 9,	7.1	29
51	Melatonin as a Chemical Substance or as Phytomelatonin Rich-Extracts for Use as Plant Protector and/or Biostimulant in Accordance with EC Legislation. <i>Agronomy</i> , 2019 , 9, 570	3.6	28
50	Role of Melatonin to Enhance Phytoremediation Capacity. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5293	2.6	28
49	Hydrophilic and lipophilic antioxidant activities of grapes. <i>Molecular Nutrition and Food Research</i> , 2002 , 46, 353-6		27
48	Role of Melatonin in Plant Tolerance to Soil Stressors: Salinity, pH and Heavy Metals. <i>Molecules</i> , 2020 , 25,	4.8	25
47	Phytomelatonin: An overview of the importance and mediating functions of melatonin against environmental stresses. <i>Physiologia Plantarum</i> , 2021 , 172, 820-846	4.6	25
46	Melatonin in Plants: More Studies are Necessary. <i>Plant Signaling and Behavior</i> , 2007 , 2, 381-2	2.5	24
45	Melatonin as a regulatory hub of plant hormone levels and action in stress situations. <i>Plant Biology</i> , 2021 , 23 Suppl 1, 7-19	3.7	24
44	Kinetic characterization of the inactivation process of two peroxidase isoenzymes in the oxidation of indolyl-3-acetic acid. <i>BBA - Proteins and Proteomics</i> , 1989 , 996, 7-12		23
43	Phytomelatonin, natural melatonin from plants as a novel dietary supplement: Sources, activities and world market. <i>Journal of Functional Foods</i> , 2018 , 48, 37-42	5.1	21
42	Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. <i>Biochemical Journal</i> , 2000 , 348 Pt 2, 321-8	3.8	21
41	Protective effect of white tea extract against acute oxidative injury caused by adriamycin in different tissues. <i>Food Chemistry</i> , 2012 , 134, 1780-5	8.5	20
40	Total antioxidant activity in <i>Quercus ilex</i> resprouts after fire. <i>Plant Physiology and Biochemistry</i> , 2003 , 41, 41-47	5.4	20
39	Oxygen consumption and enzyme inactivation in the indolyl-3-acetic acid oxidation catalyzed by peroxidase. <i>BBA - Proteins and Proteomics</i> , 1988 , 955, 194-202		20
38	Molecular mechanisms by which white tea prevents oxidative stress. <i>Journal of Physiology and Biochemistry</i> , 2014 , 70, 891-900	5	19
37	Influence of cold storage period and auxin treatment on the subsequent rooting of carnation cuttings. <i>Scientia Horticulturae</i> , 1996 , 65, 73-84	4.1	18
36	Indole-3-carbinol as a scavenger of free radicals. <i>IUBMB Life</i> , 1996 , 39, 1125-34	4.7	18
35	Chitosan Induces Plant Hormones and Defenses in Tomato Root Exudates. <i>Frontiers in Plant Science</i> , 2020 , 11, 572087	6.2	17

34	QUANTITATION OF INDOLE-3-ACETIC ACID BY LC WITH ELECTROCHEMICAL DETECTION IN ETIOLATED HYPOCOTYLS OF LUPINUS ALBUS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2001 , 24, 3095-3104	1.3	17
33	Validation of three automated assays for total antioxidant capacity determination in canine serum samples. <i>Journal of Veterinary Diagnostic Investigation</i> , 2016 , 28, 693-698	1.5	15
32	Polar Transport of Indole-3-Acetic Acid in Relation to Rooting in Carnation Cuttings: Influence of Cold Storage Duration and Cultivar. <i>Biologia Plantarum</i> , 2003 , 46, 481-485	2.1	13
31	Melatonin: synthesis from tryptophan and its role in higher plant. 2015 , 390-435		13
30	Long-term intake of white tea prevents oxidative damage caused by adriamycin in kidney of rats. <i>Journal of the Science of Food and Agriculture</i> , 2016 , 96, 3079-87	4.3	13
29	Inhibition of Etiolated Lupin Hypocotyl Growth and Rooting by Peroxides, Ascorbate and Glutathione. <i>Journal of Plant Physiology</i> , 1996 , 147, 721-728	3.6	12
28	Melatonin Against Environmental Plant Stressors: A Review. <i>Current Protein and Peptide Science</i> , 2021 , 22, 413-429	2.8	12
27	Development of a Phytomelatonin-Rich Extract from Cultured Plants with Excellent Biochemical and Functional Properties as an Alternative to Synthetic Melatonin. <i>Antioxidants</i> , 2020 , 9,	7.1	10
26	Phytomelatonin, an Interesting Tool for Agricultural Crops. <i>Focus on Sciences</i> , 2016 , 2, 1-10		10
25	The inactivation of horseradish peroxidase by m-chloroperoxybenzoic acid, a xenobiotic hydroperoxide. <i>Journal of Molecular Catalysis A</i> , 1995 , 104, 179-191		9
24	Melatonin as a plant biostimulant in crops and during post-harvest: a new approach is needed. <i>Journal of the Science of Food and Agriculture</i> , 2021 , 101, 5297-5304	4.3	9
23	Changes in hydrophilic antioxidant activity in <i>Avena sativa</i> and <i>Triticum aestivum</i> leaves of different age during de-etiolation and high-light treatment. <i>Journal of Plant Research</i> , 2006 , 119, 321-7	2.6	8
22	1-Aminocyclopropane-1-carboxylic acid as a substrate of peroxidase: conditions for oxygen consumption, hydroperoxide generation and ethylene production. <i>BBA - Proteins and Proteomics</i> , 1991 , 1077, 273-80		8
21	Phytomelatonin: an unexpected molecule with amazing performances in plants.. <i>Journal of Experimental Botany</i> , 2022 ,	7	8
20	Inhibition of ACC oxidase activity by melatonin and indole-3-acetic acid in etiolated lupin hypocotyls 2007 , 101-103		8
19	Characterization of isoperoxidase-B2 inactivation in etiolated <i>Lupinus albus</i> hypocotyls. <i>BBA - Proteins and Proteomics</i> , 2000 , 1478, 78-88		7
18	Melatonin and Carbohydrate Metabolism in Plant Cells. <i>Plants</i> , 2021 , 10,	4.5	7
17	Influence of peroxides, ascorbate and glutathione on germination and growth in <i>Lupinus albus</i> L.. <i>Biologia Plantarum</i> , 1997 , 39, 457-461	2.1	6

16	The Multi-Regulatory Properties of Melatonin in Plants 2018 , 71-101		6
15	Exogenous Melatonin Enhances Cd Tolerance and Phytoremediation Efficiency by Ameliorating Cd-Induced Stress in Oilseed Crops: A Review. <i>Journal of Plant Growth Regulation</i> ,1	4-7	6
14	Phytomelatonin: Searching for Plants with High Levels for Use as a Natural Nutraceutical. <i>Studies in Natural Products Chemistry</i> , 2015 , 46, 519-545	1-5	5
13	Functions of Melatonin During Postharvest of Horticultural Crops.. <i>Plant and Cell Physiology</i> , 2021 ,	4-9	5
12	ABTS/TEAC (2,2-Azino-bis(3-ethylbenzothiazoline-6-sulfonic acid)/Trolox -Equivalent Antioxidant Capacity) radical scavenging mixed-mode assay 2017 , 117-139		4
11	ACTIVIDAD ANTIOXIDANTE HIDROFÍLICA Y LIPOFÍLICA Y CONTENIDO EN VITAMINA C DE ZUMOS DE NARANJA COMERCIALES: RELACIÓN CON SUS CARACTERÍSTICAS ORGANOLÉPTICAS LIPOPHILIC AND HYDROPHILIC ANTIOXIDANT ACTIVITY AND VITAMIN C CONTENT OF COMMERCIAL ORANGE JUICES -CORRELATION WITH ORGANOLEPTIC PARAMETERS		4
10	Complexes between m-chloroperoxybenzoic acid and horseradish peroxidase compounds I and II: implications for the kinetics of enzyme inactivation. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2002 , 17, 287-91	5-6	4
9	Role of the reductant substrates on the inactivation of horseradish peroxidase by m-chloroperoxybenzoic acid. <i>IUBMB Life</i> , 1996 , 39, 97-107	4-7	4
8	A colorimetric method for the determination of different functional flavonoids using 2,2'-azino-bis-(3-ethylbenzthiazoline-6-sulphonic acid) (ABTS) and peroxidase. <i>Preparative Biochemistry and Biotechnology</i> , 2019 , 49, 1033-1039	2-4	2
7	Phytomelatonin versus synthetic melatonin in cancer treatments. <i>Biomedical Research and Clinical Practice</i> , 2018 , 3,	1-3	2
6	Regulatory Role of Melatonin in the Redox Network of Plants and Plant Hormone Relationship in Stress. <i>Plant in Challenging Environments</i> , 2021 , 235-272		2
5	Melatonin in : Role in Postharvest and Interesting Phytochemicals.. <i>Molecules</i> , 2022 , 27,	4-8	2
4	Chitosan induces plant hormones and defences in tomato root exudates		1
3	Adiponectin agonist treatment in diabetic pregnant rats. <i>Journal of Endocrinology</i> , 2021 , 251, 1-13	4-7	0
2	Polyamine and Ethylene Metabolisms During Tomato Fruit Ripening 1990 , 429-433		
1	Mechanistic Aspects of ACC Oxidation to Ethylene. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1993 , 53-58		