Josefa Hernandez Ruiz

List of Publications by Year
in descending order

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65 papers	7,124 citations	81900 39 h-index	114465 63 g-index
65 all docs	65 docs citations	65 times ranked	4280 citing authors

#	Article	IF	Citations
1	Functions of melatonin in plants: a review. Journal of Pineal Research, 2015, 59, 133-150.	7.4	644
2	Melatonin: A New Plant Hormone and/or a Plant Master Regulator?. Trends in Plant Science, 2019, 24, 38-48.	8.8	548
3	Melatonin: plant growth regulator and/or biostimulator during stress?. Trends in Plant Science, 2014, 19, 789-797.	8.8	502
4	Melatonin and its relationship to plant hormones. Annals of Botany, 2018, 121, 195-207.	2.9	415
5	Protective effect of melatonin against chlorophyll degradation during the senescence of barley leaves. Journal of Pineal Research, 2009, 46, 58-63.	7.4	319
6	An end-point method for estimation of the total antioxidant activity in plant material. Phytochemical Analysis, 1998, 9, 196-202.	2.4	296
7	Melatonin: a growth-stimulating compound present in lupin tissues. Planta, 2004, 220, 140-144.	3.2	289
8	Mechanism of Reaction of Hydrogen Peroxide with Horseradish Peroxidase:Â Identification of Intermediates in the Catalytic Cycle. Journal of the American Chemical Society, 2001, 123, 11838-11847.	13.7	281
9	Melatonin acts as a growthâ€stimulating compound in some monocot species. Journal of Pineal Research, 2005, 39, 137-142.	7.4	278
10	Melatonin promotes adventitious- and lateral root regeneration in etiolated hypocotyls of Lupinus albus L.. Journal of Pineal Research, 2007, 42, 147-152.	7.4	247
11	The Physiological Function of Melatonin in Plants. Plant Signaling and Behavior, 2006, 1, 89-95.	2.4	242
12	Spectrophotometric assays for total antioxidant capacity (TAC) in dog serum: an update. BMC Veterinary Research, 2016, 12, 166.	1.9	200
13	Chemical stress by different agents affects the melatonin content of barley roots. Journal of Pineal Research, 2009, 46, 295-299.	7.4	165
14	Inhibition byl-Ascorbic Acid and Other Antioxidants of the 2,2â€²-Azino-bis(3-ethylbenzthiazoline-6-sulfonic Acid) Oxidation Catalyzed by Peroxidase: A New Approach for Determining Total Antioxidant Status of Foods. Analytical Biochemistry, 1996, 236, 255-261.	2.4	162
15	Melatonin in flowering, fruit set and fruit ripening. Plant Reproduction, 2020, 33, 77-87.	2.2	150
16	Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. Biochemical Journal, 2001, 354, 107-114.	3.7	149
17	Growth conditions determine different melatonin levels in <scp>L</scp>upinus albus <scp>L</scp>. Journal of Pineal Research, 2013, 55, 149-155.	7.4	142
18	Melatonin and reactive oxygen and nitrogen species: a model for the plant redox network. Melatonin Research, 2019, 2, 152-168.	1.1	118

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19	Growth activity, rooting capacity, and tropism: three auxinic precepts fulfilled by melatonin. Acta Physiologiae Plantarum, 2017, 39, 1.	2.1	104
20	Distribution of Melatonin in Different Zones of Lupin and Barley Plants at Different Ages in the Presence and Absence of Light. Journal of Agricultural and Food Chemistry, 2008, 56, 10567-10573.	5.2	102
21	Is Phytomelatonin a New Plant Hormone?. Agronomy, 2020, 10, 95.	3.0	102
22	Relationship of Melatonin and Salicylic Acid in Biotic/Abiotic Plant Stress Responses. Agronomy, 2018, 8, 33.	3.0	100
23	Growth conditions influence the melatonin content of tomato plants. Food Chemistry, 2013, 138, 1212-1214.	8.2	99
24	Melatonin as a regulatory hub of plant hormone levels and action in stress situations. Plant Biology, 2021, 23, 7-19.	3.8	99
25	Melatonin stimulates the expansion of etiolated lupin cotyledons. Plant Growth Regulation, 2008, 55, 29-34.	3.4	96
26	Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. Biochemical Journal, 2001, 354, 107.	3.7	86
27	A comparative study of the purity, enzyme activity, and inactivation by hydrogen peroxide of commercially available horseradish peroxidase isoenzymes A and C. Biotechnology and Bioengineering, 1996, 50, 655-662.	3.3	83
28	A peroxidase isoenzyme secreted by turnip (Brassica napus) hairy-root cultures: inactivation by hydrogen peroxide and application in diagnostic kits. Biotechnology and Applied Biochemistry, 2002, 35, 1.	3.1	76
29	The Inactivation and Catalytic Pathways of Horseradish Peroxidase with m-Chloroperoxybenzoic Acid. Journal of Biological Chemistry, 1997, 272, 5469-5476.	3.4	75
30	Reactions of the Class II Peroxidases, Lignin Peroxidase andArthromyces ramosus Peroxidase, with Hydrogen Peroxide. Journal of Biological Chemistry, 2002, 277, 26879-26885.	3.4	71
31	A Comparative Study of the Inactivation of Wild-Type, Recombinant and Two Mutant Horseradish Peroxidase Isoenzymes C by Hydrogen Peroxide and m-chloroperoxybenzoic Acid. FEBS Journal, 1995, 234, 506-512.	0.2	68
32	The Potential of Phytomelatonin as a Nutraceutical. Molecules, 2018, 23, 238.	3.8	68
33	Phytomelatonin: an unexpected molecule with amazing performances in plants. Journal of Experimental Botany, 2022, 73, 5779-5800.	4.8	62
34	Catalase-like Oxygen Production by Horseradish Peroxidase Must Predominantly Be an Enzyme-Catalyzed Reaction. Archives of Biochemistry and Biophysics, 2001, 392, 295-302.	3.0	56
35	Assessment of different sample processing procedures applied to the determination of melatonin in plants. Phytochemical Analysis, 2009, 20, 14-18.	2.4	53
36	The inactivation of horseradish peroxidase isoenzyme AZ by hydrogen peroxide: an example of partial resistance due to the formation of a stable enzyme intermediate. Journal of Biological Inorganic Chemistry, 2001, 6, 504-516.	2.6	45

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37	Melatonin as a Chemical Substance or as Phytomelatonin Rich-Extracts for Use as Plant Protector and/or Biostimulant in Accordance with EC Legislation. Agronomy, 2019, 9, 570.	3.0	45
38	Role of Melatonin to Enhance Phytoremediation Capacity. Applied Sciences (Switzerland), 2019, 9, 5293.	2.5	43
39	Melatonin as a plant biostimulant in crops and during postâ€harvest: a new approach is needed. Journal of the Science of Food and Agriculture, 2021, 101, 5297-5304.	3.5	39
40	Melatonin and Carbohydrate Metabolism in Plant Cells. Plants, 2021, 10, 1917.	3.5	35
41	Phytomelatonin, natural melatonin from plants as a novel dietary supplement: Sources, activities and world market. Journal of Functional Foods, 2018, 48, 37-42.	3.4	33
42	Melatonin against environmental plant stressors: a review. Current Protein and Peptide Science, 2021, 21, 413-429.	1.4	31
43	Melatonin in Plants. Plant Signaling and Behavior, 2007, 2, 381-382.	2.4	30
44	Serum biomarkers of oxidative stress in dogs with idiopathic inflammatory bowel disease. Veterinary Journal, 2017, 221, 56-61.	1.7	29
45	Validation of three automated assays for total antioxidant capacity determination in canine serum samples. Journal of Veterinary Diagnostic Investigation, 2016, 28, 693-698.	1.1	27
46	Validation of an automated assay for the measurement of cupric reducing antioxidant capacity in serum of dogs. BMC Veterinary Research, 2016, 12, 137.	1.9	24
47	Changes in serum biomarkers of oxidative stress after treatment for canine leishmaniosis in sick dogs. Comparative Immunology, Microbiology and Infectious Diseases, 2016, 49, 51-57.	1.6	21
48	Melatonin as a Possible Natural Safener in Crops. Plants, 2022, 11, 890.	3.5	21
49	Development of a Phytomelatonin-Rich Extract from Cultured Plants with Excellent Biochemical and Functional Properties as an Alternative to Synthetic Melatonin. Antioxidants, 2020, 9, 158.	5.1	19
50	Phytomelatonin: Searching for Plants with High Levels for Use as a Natural Nutraceutical. Studies in Natural Products Chemistry, 2015, 46, 519-545.	1.8	17
51	Stability of biomarkers of oxidative stress in canine serum. Research in Veterinary Science, 2018, 121, 85-93.	1.9	15
52	Analytical validation of an automated assay for ferric-reducing ability of plasma in dog serum. Journal of Veterinary Diagnostic Investigation, 2017, 29, 574-578.	1.1	13
53	Inhibition of ACC oxidase activity by melatonin and indole-3-acetic acid in etiolated lupin hypocotyls. , 2007, , 101-103.		13
54	Serum antioxidant capacity and oxidative damage in clinical and subclinical canine ehrlichiosis. Research in Veterinary Science, 2017, 115, 301-306.	1.9	11

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55	Phytomelatonin, an Interesting Tool for Agricultural Crops. Focus on Sciences, 2016, 2, 1-10.	0.2	10
56	The inactivation of horseradish peroxidase by m-chloroperoxybenzoic acid, a xenobiotic hydroperoxide. Journal of Molecular Catalysis A, 1995, 104, 179-191.	4.8	9
57	Characterization of isoperoxidase-B2 inactivation in etiolated Lupinus albus hypocotyls. BBA - Proteins and Proteomics, 2000, 1478, 78-88.	2.1	9
58	Changes in hydrophilic antioxidant activity in Avena sativa and Triticum aestivum leaves of different age during de-etiolation and high-light treatment. Journal of Plant Research, 2006, 119, 321-327.	2.4	9
59	Melatonin in Brassicaceae: Role in Postharvest and Interesting Phytochemicals. Molecules, 2022, 27, 1523.	3.8	9
60	Regulatory Role of Melatonin in the Redox Network of Plants and Plant Hormone Relationship in Stress. Plant in Challenging Environments, 2021, , 235-272.	0.4	6
61	Complexes Between m-chloroperoxybenzoic Acid and Horseradish Peroxidase Compounds I and II: Implications for the Kinetics of Enzyme Inactivation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 287-291.	5.2	4
62	A colorimetric method for the determination of different functional flavonoids using 2,2'-azino-bis-(3-ethylbenzthiazoline-6-sulphonic acid) (ABTS) and peroxidase. Preparative Biochemistry and Biotechnology, 2019, 49, 1033-1039.	1.9	3
63	A Phytomelatonin-Rich Extract Obtained from Selected Herbs with Application as Plant Growth Regulator. Plants, 2021, 10, 2143.	3.5	3
64	Phytomelatonin versus synthetic melatonin in cancer treatments. Biomedical Research and Clinical Practice, 2018, 3, .	0.3	2
65	Phytomelatonin content in Valeriana officinalis L. and some related phytotherapeutic supplements. , 0, , .		2