Josefa Hernandez Ruiz

List of Publications by Year
in descending order

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	Phytomelatonin: an unexpected molecule with amazing performances in plants. Journal of Experimental Botany, 2022, 73, 5779-5800.	4.8	62
2	Melatonin in Brassicaceae: Role in Postharvest and Interesting Phytochemicals. Molecules, 2022, 27, 1523.	3.8	9
3	Melatonin as a Possible Natural Safener in Crops. Plants, 2022, 11, 890.	3.5	21
4	Melatonin as a regulatory hub of plant hormone levels and action in stress situations. Plant Biology, 2021, 23, 7-19.	3.8	99
5	Melatonin against environmental plant stressors: a review. Current Protein and Peptide Science, 2021, 21, 413-429.	1.4	31
6	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
7	Melatonin and Carbohydrate Metabolism in Plant Cells. Plants, 2021, 10, 1917.	3.5	35
8	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
9	A Phytomelatonin-Rich Extract Obtained from Selected Herbs with Application as Plant Growth Regulator. Plants, 2021, 10, 2143.	3.5	3
10	Is Phytomelatonin a New Plant Hormone?. Agronomy, 2020, 10, 95.	3.0	102
11	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
12	Melatonin in flowering, fruit set and fruit ripening. Plant Reproduction, 2020, 33, 77-87.	2.2	150
13	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
14	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
15	Role of Melatonin to Enhance Phytoremediation Capacity. Applied Sciences (Switzerland), 2019, 9, 5293.	2.5	43
16	Melatonin: A New Plant Hormone and/or a Plant Master Regulator?. Trends in Plant Science, 2019, 24, 38-48.	8.8	548
17	Melatonin and reactive oxygen and nitrogen species: a model for the plant redox network. Melatonin Research, 2019, 2, 152-168.	1.1	118
18	Melatonin and its relationship to plant hormones. Annals of Botany, 2018, 121, 195-207.	2.9	415

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19	Stability of biomarkers of oxidative stress in canine serum. Research in Veterinary Science, 2018, 121, 85-93.	1.9	15
20	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
21	Relationship of Melatonin and Salicylic Acid in Biotic/Abiotic Plant Stress Responses. Agronomy, 2018, 8, 33.	3.0	100
22	The Potential of Phytomelatonin as a Nutraceutical. Molecules, 2018, 23, 238.	3.8	68
23	Phytomelatonin versus synthetic melatonin in cancer treatments. Biomedical Research and Clinical Practice, 2018, 3, .	0.3	2
24	Serum biomarkers of oxidative stress in dogs with idiopathic inflammatory bowel disease. Veterinary Journal, 2017, 221, 56-61.	1.7	29
25	Growth activity, rooting capacity, and tropism: three auxinic precepts fulfilled by melatonin. Acta Physiologiae Plantarum, 2017, 39, 1.	2.1	104
26	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
27	Serum antioxidant capacity and oxidative damage in clinical and subclinical canine ehrlichiosis. Research in Veterinary Science, 2017, 115, 301-306.	1.9	11
28	Spectrophotometric assays for total antioxidant capacity (TAC) in dog serum: an update. BMC Veterinary Research, 2016, 12, 166.	1.9	200
29	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
30	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
31	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
32	Phytomelatonin, an Interesting Tool for Agricultural Crops. Focus on Sciences, 2016, 2, 1-10.	0.2	10
33	Functions of melatonin in plants: a review. Journal of Pineal Research, 2015, 59, 133-150.	7.4	644
34	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
35	Melatonin: plant growth regulator and/or biostimulator during stress?. Trends in Plant Science, 2014, 19, 789-797.	8.8	502
36	Growth conditions determine different melatonin levels in <i><scp>L</scp>upinus albus </i><scp>L</scp>. Journal of Pineal Research, 2013, 55, 149-155.	7.4	142

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37	Growth conditions influence the melatonin content of tomato plants. Food Chemistry, 2013, 138, 1212-1214.	8.2	99
38	Assessment of different sample processing procedures applied to the determination of melatonin in plants. Phytochemical Analysis, 2009, 20, 14-18.	2.4	53
39	Protective effect of melatonin against chlorophyll degradation during the senescence of barley leaves. Journal of Pineal Research, 2009, 46, 58-63.	7.4	319
40	Chemical stress by different agents affects the melatonin content of barley roots. Journal of Pineal Research, 2009, 46, 295-299.	7.4	165
41	Melatonin stimulates the expansion of etiolated lupin cotyledons. Plant Growth Regulation, 2008, 55, 29-34.	3.4	96
42	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
43	Melatonin in Plants. Plant Signaling and Behavior, 2007, 2, 381-382.	2.4	30
44	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
45	Inhibition of ACC oxidase activity by melatonin and indole-3-acetic acid in etiolated lupin hypocotyls. , 2007, , 101-103.		13
46	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
47	The Physiological Function of Melatonin in Plants. Plant Signaling and Behavior, 2006, 1, 89-95.	2.4	242
48	Melatonin acts as a growthâ€stimulating compound in some monocot species. Journal of Pineal Research, 2005, 39, 137-142.	7.4	278
49	Melatonin: a growth-stimulating compound present in lupin tissues. Planta, 2004, 220, 140-144.	3.2	289
50	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
51	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
52	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
53	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
54	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

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55	Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. Biochemical Journal, 2001, 354, 107-114.	3.7	149
56	Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. Biochemical Journal, 2001, 354, 107.	3.7	86
57	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
58	Characterization of isoperoxidase-B2 inactivation in etiolated Lupinus albus hypocotyls. BBA - Proteins and Proteomics, 2000, 1478, 78-88.	2.1	9
59	An end-point method for estimation of the total antioxidant activity in plant material. Phytochemical Analysis, 1998, 9, 196-202.	2.4	296
60	The Inactivation and Catalytic Pathways of Horseradish Peroxidase with m-Chloroperoxybenzoic Acid. Journal of Biological Chemistry, 1997, 272, 5469-5476.	3.4	75
61	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
62	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
63	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
64	The inactivation of horseradish peroxidase by m-chloroperoxybenzoic acid, a xenobiotic hydroperoxide. Journal of Molecular Catalysis A, 1995, 104, 179-191.	4.8	9
65	Phytomelatonin content in Valeriana officinalis L. and some related phytotherapeutic supplements. , 0, , .		2