# Marino B Arnao

List of Publications by Year
in descending order



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|---|---|---|---|
| 109 papers | 10,706 citations | 34105 52 h-index | 31849 101 g-index |
| 111 all docs | 111 docs citations | 111 times ranked | 6771 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Functions of Melatonin during Postharvest of Horticultural Crops. Plant and Cell Physiology, 2023, 63, 1764-1786. | 3.1 | 51 |
| 2 | Exogenous Melatonin Enhances Cd Tolerance and Phytoremediation Efficiency by Ameliorating Cd-Induced Stress in Oilseed Crops: A Review. Journal of Plant Growth Regulation, 2022, 41, 922-935. | 5.1 | 16 |
| 3 | Phytomelatonin: an unexpected molecule with amazing performances in plants. Journal of Experimental Botany, 2022, 73, 5779-5800. | 4.8 | 62 |
| 4 | Melatonin in Brassicaceae: Role in Postharvest and Interesting Phytochemicals. Molecules, 2022, 27, 1523. | 3.8 | 9 |
| 5 | Chamomile (Matricaria chamomilla L.): A Review of Ethnomedicinal Use, Phytochemistry and Pharmacological Uses. Life, 2022, 12, 479. | 2.4 | 57 |
| 6 | Melatonin as a Possible Natural Safener in Crops. Plants, 2022, 11, 890. | 3.5 | 21 |
| 7 | Phytomelatonin: An overview of the importance and mediating functions of melatonin against environmental stresses. Physiologia Plantarum, 2021, 172, 820-846. | 5.2 | 75 |
| 8 | Melatonin as a regulatory hub of plant hormone levels and action in stress situations. Plant Biology, 2021, 23, 7-19. | 3.8 | 99 |
| 9 | Melatonin against environmental plant stressors: a review. Current Protein and Peptide Science, 2021, 21, 413-429. | 1.4 | 31 |
| 10 | 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 |
| 11 | Melatonin and Carbohydrate Metabolism in Plant Cells. Plants, 2021, 10, 1917. | 3.5 | 35 |
| 12 | Adiponectin agonist treatment in diabetic pregnant rats. Journal of Endocrinology, 2021, 251, 1-13. | 2.6 | 6 |
| 13 | 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 |
| 14 | A Phytomelatonin-Rich Extract Obtained from Selected Herbs with Application as Plant Growth Regulator. Plants, 2021, 10, 2143. | 3.5 | 3 |
| 15 | Is Phytomelatonin a New Plant Hormone?. Agronomy, 2020, 10, 95. | 3.0 | 102 |
| 16 | Role of Melatonin in Plant Tolerance to Soil Stressors: Salinity, pH and Heavy Metals. Molecules, 2020, 25, 5359. | 3.8 | 79 |
| 17 | Melatonin-Induced Water Stress Tolerance in Plants: Recent Advances. Antioxidants, 2020, 9, 809. | 5.1 | 95 |
| 18 | Chitosan Induces Plant Hormones and Defenses in Tomato Root Exudates. Frontiers in Plant Science, 2020, 11, 572087. | 3.6 | 50 |

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| 19 | Melatonin Suppressed the Heat Stress-Induced Damage in Wheat Seedlings by Modulating the Antioxidant Machinery. Plants, 2020, 9, 809. | 3.5 | 99 |
| 20 | 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 |
| 21 | Melatonin and Its Protective Role against Biotic Stress Impacts on Plants. Biomolecules, 2020, 10, 54. | 4.0 | 153 |
| 22 | Melatonin in flowering, fruit set and fruit ripening. Plant Reproduction, 2020, 33, 77-87. | 2.2 | 150 |
| 23 | 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 |
| 24 | 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 |
| 25 | Role of Melatonin to Enhance Phytoremediation Capacity. Applied Sciences (Switzerland), 2019, 9, 5293. | 2.5 | 43 |
| 26 | Melatonin: A New Plant Hormone and/or a Plant Master Regulator?. Trends in Plant Science, 2019, 24, 38-48. | 8.8 | 548 |
| 27 | Melatonin and reactive oxygen and nitrogen species: a model for the plant redox network. Melatonin Research, 2019, 2, 152-168. | 1.1 | 118 |
| 28 | Melatonin and its relationship to plant hormones. Annals of Botany, 2018, 121, 195-207. | 2.9 | 415 |
| 29 | Melatonin and Its Effects on Plant Systems. Molecules, 2018, 23, 2352. | 3.8 | 157 |
| 30 | 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 |
| 31 | Relationship of Melatonin and Salicylic Acid in Biotic/Abiotic Plant Stress Responses. Agronomy, 2018, 8, 33. | 3.0 | 100 |
| 32 | The Potential of Phytomelatonin as a Nutraceutical. Molecules, 2018, 23, 238. | 3.8 | 68 |
| 33 | The Multi-Regulatory Properties of Melatonin in Plants. , 2018, , 71-101. | | 10 |
| 34 | Phytomelatonin versus synthetic melatonin in cancer treatments. Biomedical Research and Clinical Practice, 2018, 3, . | 0.3 | 2 |
| 35 | Growth activity, rooting capacity, and tropism: three auxinic precepts fulfilled by melatonin. Acta Physiologiae Plantarum, 2017, 39, 1. | 2.1 | 104 |
| 36 | Longâ€term intake of white tea prevents oxidative damage caused by adriamycin in kidney of rats. Journal of the Science of Food and Agriculture, 2016, 96, 3079-3087. | 3.5 | 17 |

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| 37 | 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 |
| 38 | Phytomelatonin, an Interesting Tool for Agricultural Crops. Focus on Sciences, 2016, 2, 1-10. | 0.2 | 10 |
| 39 | Functions of melatonin in plants: a review. Journal of Pineal Research, 2015, 59, 133-150. | 7.4 | 644 |
| 40 | 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 |
| 41 | Melatonin: synthesis from tryptophan and its role in higher plant.. , 2015, , 390-435. | | 21 |
| 42 | Phytomelatonin: Discovery, Content, and Role in Plants. Advances in Botany, 2014, 2014, 1-11. | 3.4 | 105 |
| 43 | Chemical and functional properties of the different by-products of artichoke (Cynara scolymus L.) from industrial canning processing. Food Chemistry, 2014, 160, 134-140. | 8.2 | 58 |
| 44 | Melatonin: plant growth regulator and/or biostimulator during stress?. Trends in Plant Science, 2014, 19, 789-797. | 8.8 | 502 |
| 45 | Molecular mechanisms by which white tea prevents oxidative stress. Journal of Physiology and Biochemistry, 2014, 70, 891-900. | 3.0 | 20 |
| 46 | 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 |
| 47 | Growth conditions influence the melatonin content of tomato plants. Food Chemistry, 2013, 138, 1212-1214. | 8.2 | 99 |
| 48 | Protective effect of white tea extract against acute oxidative injury caused by adriamycin in different tissues. Food Chemistry, 2012, 134, 1780-1785. | 8.2 | 28 |
| 49 | Assessment of different sample processing procedures applied to the determination of melatonin in plants. Phytochemical Analysis, 2009, 20, 14-18. | 2.4 | 53 |
| 50 | Protective effect of melatonin against chlorophyll degradation during the senescence of barley leaves. Journal of Pineal Research, 2009, 46, 58-63. | 7.4 | 319 |
| 51 | Chemical stress by different agents affects the melatonin content of barley roots. Journal of Pineal Research, 2009, 46, 295-299. | 7.4 | 165 |
| 52 | Melatonin stimulates the expansion of etiolated lupin cotyledons. Plant Growth Regulation, 2008, 55, 29-34. | 3.4 | 96 |
| 53 | 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 |
| 54 | Melatonin in Plants. Plant Signaling and Behavior, 2007, 2, 381-382. | 2.4 | 30 |

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| 55 | 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 |
| 56 | Inhibition of ACC oxidase activity by melatonin and indole-3-acetic acid in etiolated lupin hypocotyls. , 2007, , 101-103. | | 13 |
| 57 | 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 |
| 58 | The Physiological Function of Melatonin in Plants. Plant Signaling and Behavior, 2006, 1, 89-95. | 2.4 | 242 |
| 59 | Melatonin acts as a growthâ€stimulating compound in some monocot species. Journal of Pineal Research, 2005, 39, 137-142. | 7.4 | 278 |
| 60 | Hydrophilic and Lipophilic Antioxidant Activity in Different Leaves of Three Lettuce Varieties. International Journal of Food Properties, 2005, 8, 521-528. | 3.0 | 45 |
| 61 | Melatonin: a growth-stimulating compound present in lupin tissues. Planta, 2004, 220, 140-144. | 3.2 | 289 |
| 62 | ACTIVIDAD ANTIOXIDANTE HIDROFÃLICA Y LIPOFÃLICA Y CONTENIDO EN VITAMINA C DE ZUMOS DE NARANJA COMERCIALES: RELACIÃ“N CON SUS CARACTERÃSTICAS ORGANOLÃ‰PTICAS LIPOPHILIC AND HYDROPHILIC ANTIOXIDANT ACTIVITY AND VITAMIN C CONTENT OF COMMERCIAL ORANGE JUICES: CORRELATION WITH ORGANOLEPTIC PARAMETERS ACTIVIDADE ANTIOXIDANTE HIDROFÃLICA E LIPOFÃLICA E CONTIDO EN VITAMINA C DE ZUMOS DE LARANXA COMERCIAIS: RELACIÃ“N COAS CARACTERÃSTICAS ORGANOLÃ‰PTICAS. Ciencia Y Tecnologia Alimentaria, 2004, 4, 185-189. | 0.4 | 5 |
| 63 | Polar Transport of Indole-3-Acetic Acid in Relation to Rooting in Carnation Cuttings: Influence of Cold Storage Duration and Cultivar. Biologia Plantarum, 2003, 46, 481-485. | 1.9 | 14 |
| 64 | Free radical-scavenging activity of indolic compounds in aqueous and ethanolic media. Analytical and Bioanalytical Chemistry, 2003, 376, 33-37. | 3.7 | 73 |
| 65 | Hydrophilic and lipophilic antioxidant activity changes during on-vine ripening of tomatoes (Lycopersicon esculentum Mill.). Postharvest Biology and Technology, 2003, 28, 59-65. | 6.0 | 134 |
| 66 | Total antioxidant activity in Quercus ilex resprouts after fire. Plant Physiology and Biochemistry, 2003, 41, 41-47. | 5.8 | 21 |
| 67 | 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 |
| 68 | On-line antioxidant activity determination: comparison of hydrophilic and lipophilic antioxidant activity using the ABTSâ€¢+assay. Redox Report, 2002, 7, 103-109. | 4.5 | 52 |
| 69 | Superoxide scavenging by polyphenols: effect of conjugation and dimerization. Redox Report, 2002, 7, 379-383. | 4.5 | 33 |
| 70 | 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 |
| 71 | Hydrophilic and lipophilic antioxidant activities of grapes. Molecular Nutrition and Food Research, 2002, 46, 353-356. | 0.0 | 33 |
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| 73 | 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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| 75 | Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. Biochemical Journal, 2001, 354, 107. | 3.7 | 86 |
| 76 | Detection of a tryptophan radical in the reaction of ascorbate peroxidase with hydrogen peroxide. FEBS Journal, 2001, 268, 3091-3098. | 0.2 | 52 |
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| 78 | 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 |
| 79 | The hydrophilic and lipophilic contribution to total antioxidant activity. Food Chemistry, 2001, 73, 239-244. | 8.2 | 1,019 |
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| 82 | Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. Biochemical Journal, 2000, 348, 321-328. | 3.7 | 87 |
| 83 | A method to measure antioxidant activity in organic media: application to lipophilic vitamins. Redox Report, 2000, 5, 365-370. | 4.5 | 128 |
| 84 | Characterization of isoperoxidase-B2 inactivation in etiolated Lupinus albus hypocotyls. BBA - Proteins and Proteomics, 2000, 1478, 78-88. | 2.1 | 9 |
| 85 | Some methodological problems in the determination of antioxidant activity using chromogen radicals: a practical case. Trends in Food Science and Technology, 2000, 11, 419-421. | 15.1 | 427 |
| 86 | Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. Biochemical Journal, 2000, 348 Pt 2, 321-8. | 3.7 | 22 |
| 87 | Methods to Measure the Antioxidant Activity in Plant Material. A Comparative Discussion. Free Radical Research, 1999, 31, 89-96. | 3.3 | 144 |
| 88 | An end-point method for estimation of the total antioxidant activity in plant material. Phytochemical Analysis, 1998, 9, 196-202. | 2.4 | 296 |
| 89 | The Inactivation and Catalytic Pathways of Horseradish Peroxidase with m-Chloroperoxybenzoic Acid. Journal of Biological Chemistry, 1997, 272, 5469-5476. | 3.4 | 75 |
| 90 | Influence of peroxides, ascorbate and glutathione on germination and growth in Lupinus albus L.. Biologia Plantarum, 1997, 39, 457-461. | 1.9 | 6 |

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| 91 | Influence of cold storage period and auxin treatment on the subsequent rooting of carnation cuttings. Scientia Horticulturae, 1996, 65, 73-84. | 3.6 | 27 |
| 92 | Inhibition of Etiolated Lupin Hypocotyl Growth and Rooting by Peroxides, Ascorbate and Glutathione. Journal of Plant Physiology, 1996, 147, 721-728. | 3.5 | 13 |
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| 96 | 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 |
| 97 | 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 |
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| 99 | Mechanistic Aspects of ACC Oxidation to Ethylene. Current Plant Science and Biotechnology in Agriculture, 1993, , 53-58. | 0.0 | 0 |
| 100 | 1-Aminocyclopropane-1-carâ˜ylic acid as a substrate of peroxidase: conditions for oxygen consumption, hydroperoxide generation and ethylene production. BBA - Proteins and Proteomics, 1991, 1077, 273-280. | 2.1 | 8 |
| 101 | Inactivation of peroxidase by hydrogen peroxide and its protection by a reductant agent. BBA - Proteins and Proteomics, 1990, 1038, 85-89. | 2.1 | 166 |
| 102 | A kinetic study on the suicide inactivation of peroxidase by hydrogen peroxide. BBA - Proteins and Proteomics, 1990, 1041, 43-47. | 2.1 | 256 |
| 103 | An enzymatic colorimetric method for measuring naringin using 2,2â€²-azino-bis-(3-ethylbenzthiazoline-6-sulfonic acid) (ABTS) in the presence of peroxidase. Analytical Biochemistry, 1990, 185, 335-338. | 2.4 | 79 |
| 104 | Polyamine and Ethylene Metabolisms During Tomato Fruit Ripening. , 1990, , 429-433. | | 0 |
| 105 | Kinetic characterization of the inactivation process of two peroxidase isoenzymes in the oxidation of indolyl-3-acetic acid. BBA - Proteins and Proteomics, 1989, 996, 7-12. | 2.1 | 26 |
| 106 | Oxygen consumption and enzyme inactivation in the indolyl-3-acetic acid oxidation catalyzed by peroxidase. BBA - Proteins and Proteomics, 1988, 955, 194-202. | 2.1 | 21 |
| 107 | ABTS/TEAC (2,2â€™-azino-bis(3-ethylbenzothiazoline-6-sulfonic acid)/TroloxÂ®-Equivalent Antioxidant) Tj ETQq1 1 0.784314 rgBT /Ov | | 5 |
| 108 | Phytomelatonin content in Valeriana officinalis L. and some related phytotherapeutic supplements. , 0, , . | | 2 |

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| 109 | Melatonin Alleviates Chilling Injury Symptom Development in Mango Fruit by Maintaining Intracellular Energy and Cell Wall and Membrane Stability. Frontiers in Nutrition, 0, 9, . | 3.7 | 16 |