# Marino B Arnao

## List of Publications by Year in Descending Order



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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 | Phytomelatonin: an unexpected molecule with amazing performances in plants.. *Journal of Experimental Botany*, **2022**, | 7 | 8 |
| 104 | Melatonin in : Role in Postharvest and Interesting Phytochemicals.. *Molecules*, **2022**, 27, | 4.8 | 2 |
| 103 | Regulatory Role of Melatonin in the Redox Network of Plants and Plant Hormone Relationship in Stress. *Plant in Challenging Environments*, **2021**, 235-272 | | 2 |
| 102 | Melatonin as a plant biostimulant in crops and during post-harvest: a new approach is needed. *Journal of the Science of Food and Agriculture*, **2021**, 101, 5297-5304 | 4.3 | 9 |
| 101 | Phytomelatonin: An overview of the importance and mediating functions of melatonin against environmental stresses. *Physiologia Plantarum*, **2021**, 172, 820-846 | 4.6 | 25 |
| 100 | Melatonin as a regulatory hub of plant hormone levels and action in stress situations. *Plant Biology*, **2021**, 23 Suppl 1, 7-19 | 3.7 | 24 |
| 99 | Melatonin Against Environmental Plant Stressors: A Review. *Current Protein and Peptide Science*, **2021**, 22, 413-429 | 2.8 | 12 |
| 98 | Melatonin and Carbohydrate Metabolism in Plant Cells. *Plants*, **2021**, 10, | 4.5 | 7 |
| 97 | Adiponectin agonist treatment in diabetic pregnant rats. *Journal of Endocrinology*, **2021**, 251, 1-13 | 4.7 | 0 |
| 96 | Functions of Melatonin During Postharvest of Horticultural Crops.. *Plant and Cell Physiology*, **2021**, | 4.9 | 5 |
| 95 | Chitosan Induces Plant Hormones and Defenses in Tomato Root Exudates. *Frontiers in Plant Science* , **2020**, 11, 572087 | 6.2 | 17 |
| 94 | Melatonin Suppressed the Heat Stress-Induced Damage in Wheat Seedlings by Modulating the Antioxidant Machinery. *Plants*, **2020**, 9, | 4.5 | 35 |
| 93 | Development of a Phytomelatonin-Rich Extract from Cultured Plants with Excellent Biochemical and Functional Properties as an Alternative to Synthetic Melatonin. *Antioxidants*, **2020**, 9, | 7.1 | 10 |
| 92 | Melatonin in flowering, fruit set and fruit ripening. *Plant Reproduction*, **2020**, 33, 77-87 | 3.9 | 56 |
| 91 | Is Phytomelatonin a New Plant Hormone?. *Agronomy*, **2020**, 10, 95 | 3.6 | 54 |
| 90 | Role of Melatonin in Plant Tolerance to Soil Stressors: Salinity, pH and Heavy Metals. *Molecules*, **2020**, 25, | 4.8 | 25 |
| 89 | Melatonin-Induced Water Stress Tolerance in Plants: Recent Advances. *Antioxidants*, **2020**, 9, | 7.1 | 29 |

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| 88 | 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 | 3.6 | 28 |
| 87 | Melatonin and Its Protective Role against Biotic Stress Impacts on Plants. *Biomolecules*, **2019**, 10, | 5.9 | 75 |
| 86 | 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 | 2.4 | 2 |
| 85 | Melatonin and reactive oxygen and nitrogen species: a model for the plant redox network. *Melatonin Research*, **2019**, 2, 152-168 | 5.1 | 65 |
| 84 | Role of Melatonin to Enhance Phytoremediation Capacity. *Applied Sciences (Switzerland)*, **2019**, 9, 5293 | 2.6 | 28 |
| 83 | Melatonin: A New Plant Hormone and/or a Plant Master Regulator?. *Trends in Plant Science*, **2019**, 24, 38-48 | 13.1 | 282 |
| 82 | Melatonin and its relationship to plant hormones. *Annals of Botany*, **2018**, 121, 195-207 | 4.1 | 228 |
| 81 | Phytomelatonin, natural melatonin from plants as a novel dietary supplement: Sources, activities and world market. *Journal of Functional Foods*, **2018**, 48, 37-42 | 5.1 | 21 |
| 80 | Relationship of Melatonin and Salicylic Acid in Biotic/Abiotic Plant Stress Responses. *Agronomy*, **2018**, 8, 33 | 3.6 | 58 |
| 79 | The Potential of Phytomelatonin as a Nutraceutical. *Molecules*, **2018**, 23, | 4.8 | 38 |
| 78 | The Multi-Regulatory Properties of Melatonin in Plants **2018**, 71-101 | | 6 |
| 77 | Phytomelatonin versus synthetic melatonin in cancer treatments. *Biomedical Research and Clinical Practice*, **2018**, 3, | 1.3 | 2 |
| 76 | Melatonin and Its Effects on Plant Systems. *Molecules*, **2018**, 23, | 4.8 | 86 |
| 75 | Growth activity, rooting capacity, and tropism: three auxinic precepts fulfilled by melatonin. *Acta Physiologiae Plantarum*, **2017**, 39, 1 | 2.6 | 63 |
| 74 | ABTS/TEAC (2,2-azino-bis(3-ethylbenzothiazoline-6-sulfonic acid)/Trolox® -Equivalent Antioxidant Capacity) radical scavenging mixed-mode assay **2017**, 117-139 | | 4 |
| 73 | Phytomelatonin, an Interesting Tool for Agricultural Crops. *Focus on Sciences*, **2016**, 2, 1-10 | | 10 |
| 72 | Long-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, 3079-87 | 4.3 | 13 |
| 71 | Validation of three automated assays for total antioxidant capacity determination in canine serum samples. *Journal of Veterinary Diagnostic Investigation*, **2016**, 28, 693-698 | 1.5 | 15 |

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| 70 | Phytomelatonin: Searching for Plants with High Levels for Use as a Natural Nutraceutical. *Studies in Natural Products Chemistry*, **2015**, 46, 519-545 | 1.5 | 5 |
| 69 | Functions of melatonin in plants: a review. *Journal of Pineal Research*, **2015**, 59, 133-50 | 10.4 | 433 |
| 68 | Melatonin: synthesis from tryptophan and its role in higher plant. **2015**, 390-435 | | 13 |
| 67 | Chemical and functional properties of the different by-products of artichoke (Cynara scolymus L.) from industrial canning processing. *Food Chemistry*, **2014**, 160, 134-40 | 8.5 | 38 |
| 66 | Melatonin: plant growth regulator and/or biostimulator during stress?. *Trends in Plant Science*, **2014** , 19, 789-97 | 13.1 | 343 |
| 65 | Molecular mechanisms by which white tea prevents oxidative stress. *Journal of Physiology and Biochemistry*, **2014**, 70, 891-900 | 5 | 19 |
| 64 | Phytomelatonin: Discovery, Content, and Role in Plants. *Advances in Botany*, **2014**, 2014, 1-11 | | 66 |
| 63 | Growth conditions determine different melatonin levels in Lupinus albus L. *Journal of Pineal Research*, **2013**, 55, 149-55 | 10.4 | 99 |
| 62 | Growth conditions influence the melatonin content of tomato plants. *Food Chemistry*, **2013**, 138, 1212-48.5 | | 74 |
| 61 | Protective effect of white tea extract against acute oxidative injury caused by adriamycin in different tissues. *Food Chemistry*, **2012**, 134, 1780-5 | 8.5 | 20 |
| 60 | Assessment of different sample processing procedures applied to the determination of melatonin in plants. *Phytochemical Analysis*, **2009**, 20, 14-8 | 3.4 | 41 |
| 59 | Protective effect of melatonin against chlorophyll degradation during the senescence of barley leaves. *Journal of Pineal Research*, **2009**, 46, 58-63 | 10.4 | 240 |
| 58 | Chemical stress by different agents affects the melatonin content of barley roots. *Journal of Pineal Research*, **2009**, 46, 295-9 | 10.4 | 127 |
| 57 | 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, 10567-73 | 5.7 | 83 |
| 56 | Melatonin stimulates the expansion of etiolated lupin cotyledons. *Plant Growth Regulation*, **2008**, 55, 29-34 | 3.2 | 79 |
| 55 | Melatonin promotes adventitious- and lateral root regeneration in etiolated hypocotyls of Lupinus albus L. *Journal of Pineal Research*, **2007**, 42, 147-52 | 10.4 | 199 |
| 54 | Melatonin in Plants: More Studies are Necessary. *Plant Signaling and Behavior*, **2007**, 2, 381-2 | 2.5 | 24 |
| 53 | Inhibition of ACC oxidase activity by melatonin and indole-3-acetic acid in etiolated lupin hypocotyls **2007**, 101-103 | | 8 |

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|---|---|---|---|
| 52 | The physiological function of melatonin in plants. *Plant Signaling and Behavior*, **2006**, 1, 89-95 | 2.5 | 187 |
| 51 | 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, 321-7 | 2.6 | 8 |
| 50 | Hydrophilic and Lipophilic Antioxidant Activity in Different Leaves of Three Lettuce Varieties. *International Journal of Food Properties*, **2005**, 8, 521-528 | 3 | 40 |
| 49 | Melatonin acts as a growth-stimulating compound in some monocot species. *Journal of Pineal Research*, **2005**, 39, 137-42 | 10.4 | 218 |
| 48 | Melatonin: a growth-stimulating compound present in lupin tissues. *Planta*, **2004**, 220, 140-4 | 4.7 | 232 |
| 47 | 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 ACTIVIDADE | | 4 |
| 46 | 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 | 2.1 | 13 |
| 45 | Free radical-scavenging activity of indolic compounds in aqueous and ethanolic media. *Analytical and Bioanalytical Chemistry*, **2003**, 376, 33-7 | 4.4 | 62 |
| 44 | Hydrophilic and lipophilic antioxidant activity changes during on-vine ripening of tomatoes (Lycopersicon esculentum Mill.). *Postharvest Biology and Technology*, **2003**, 28, 59-65 | 6.2 | 113 |
| 43 | Total antioxidant activity in Quercus ilex resprouts after fire. *Plant Physiology and Biochemistry*, **2003**, 41, 41-47 | 5.4 | 20 |
| 42 | Hydrophilic and lipophilic antioxidant activities of grapes. *Molecular Nutrition and Food Research*, **2002**, 46, 353-6 | | 27 |
| 41 | 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, 1-7 | 2.8 | 62 |
| 40 | Reactions of the class II peroxidases, lignin peroxidase and Arthromyces ramosus peroxidase, with hydrogen peroxide. Catalase-like activity, compound III formation, and enzyme inactivation. *Journal of Biological Chemistry*, **2002**, 277, 26879-85 | 5.4 | 58 |
| 39 | On-line antioxidant activity determination: comparison of hydrophilic and lipophilic antioxidant activity using the ABTS*+ assay. *Redox Report*, **2002**, 7, 103-9 | 5.9 | 42 |
| 38 | Superoxide scavenging by polyphenols: effect of conjugation and dimerization. *Redox Report*, **2002**, 7, 379-83 | 5.9 | 30 |
| 37 | 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, 287-91 | 5.6 | 4 |
| 36 | Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. *Biochemical Journal*, **2001**, 354, 107-14 | 3.8 | 67 |
| 35 | Detection of a tryptophan radical in the reaction of ascorbate peroxidase with hydrogen peroxide. *FEBS Journal*, **2001**, 268, 3091-8 | | 45 |

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| 34 | Estimation of free radical-quenching activity of leaf pigment extracts. *Phytochemical Analysis*, **2001**, 12, 138-43 | 3.4 | 49 |
| 33 | The inactivation of horseradish peroxidase isoenzyme A2 by hydrogen peroxide: an example of partial resistance due to the formation of a stable enzyme intermediate. *Journal of Biological Inorganic Chemistry*, **2001**, 6, 504-16 | 3.7 | 39 |
| 32 | The hydrophilic and lipophilic contribution to total antioxidant activity. *Food Chemistry*, **2001**, 73, 239-244 | 3.5 | 791 |
| 31 | QUANTITATION OF INDOLE-3-ACETIC ACID BY LC WITH ELECTROCHEMICAL DETECTION IN ETIOLATED HYPOCOTYLS OF LUPINUS ALBUS. *Journal of Liquid Chromatography and Related Technologies*, **2001**, 24, 3095-3104 | 1.3 | 17 |
| 30 | Catalase-like oxygen production by horseradish peroxidase must predominantly be an enzyme-catalyzed reaction. *Archives of Biochemistry and Biophysics*, **2001**, 392, 295-302 | 4.1 | 51 |
| 29 | Catalase-like activity of horseradish peroxidase: relationship to enzyme inactivation by H2O2. *Biochemical Journal*, **2001**, 354, 107-114 | 3.8 | 127 |
| 28 | Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. *Biochemical Journal*, **2000**, 348, 321 | 3.8 | 31 |
| 27 | Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. *Biochemical Journal*, **2000**, 348, 321-328 | 3.8 | 74 |
| 26 | A method to measure antioxidant activity in organic media: application to lipophilic vitamins. *Redox Report*, **2000**, 5, 365-70 | 5.9 | 101 |
| 25 | Characterization of isoperoxidase-B2 inactivation in etiolated Lupinus albus hypocotyls. *BBA - Proteins and Proteomics*, **2000**, 1478, 78-88 | | 7 |
| 24 | 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 | 15.3 | 325 |
| 23 | Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide. *Biochemical Journal*, **2000**, 348 Pt 2, 321-8 | 3.8 | 21 |
| 22 | Methods to measure the antioxidant activity in plant material. A comparative discussion. *Free Radical Research*, **1999**, 31 Suppl, S89-96 | 4 | 118 |
| 21 | An end-point method for estimation of the total antioxidant activity in plant material. *Phytochemical Analysis*, **1998**, 9, 196-202 | 3.4 | 264 |
| 20 | The inactivation and catalytic pathways of horseradish peroxidase with m-chloroperoxybenzoic acid. A spectrophotometric and transient kinetic study. *Journal of Biological Chemistry*, **1997**, 272, 5469-76 | 5.4 | 60 |
| 19 | Influence of peroxides, ascorbate and glutathione on germination and growth in Lupinus albus L.. *Biologia Plantarum*, **1997**, 39, 457-461 | 2.1 | 6 |
| 18 | Influence of cold storage period and auxin treatment on the subsequent rooting of carnation cuttings. *Scientia Horticulturae*, **1996**, 65, 73-84 | 4.1 | 18 |
| 17 | Inhibition of Etiolated Lupin Hypocotyl Growth and Rooting by Peroxides, Ascorbate and Glutathione. *Journal of Plant Physiology*, **1996**, 147, 721-728 | 3.6 | 12 |

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|---|---|---|---|
| 16 | Role of the reductant substrates on the inactivation of horseradish peroxidase by m-chloroperoxybenzoic acid. *IUBMB Life*, **1996**, 39, 97-107 | 4.7 | 4 |
| 15 | Indole-3-carbinol as a scavenger of free radicals. *IUBMB Life*, **1996**, 39, 1125-34 | 4.7 | 18 |
| 14 | 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, 655-62 | 4.9 | 71 |
| 13 | 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. *Analytical Biochemistry*, **1996**, 236, 255-61 | 3.1 | 133 |
| 12 | The inactivation of horseradish peroxidase by m-chloroperoxybenzoic acid, a xenobiotic hydroperoxide. *Journal of Molecular Catalysis A*, **1995**, 104, 179-191 | | 9 |
| 11 | 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, 506-12 | | 54 |
| 10 | Mechanistic Aspects of ACC Oxidation to Ethylene. *Current Plant Science and Biotechnology in Agriculture*, **1993**, 53-58 | | |
| 9 | 1-Aminocyclopropane-1-carboxylic acid as a substrate of peroxidase: conditions for oxygen consumption, hydroperoxide generation and ethylene production. *BBA - Proteins and Proteomics*, **1991**, 1077, 273-80 | | 8 |
| 8 | Inactivation of peroxidase by hydrogen peroxide and its protection by a reductant agent. *BBA - Proteins and Proteomics*, **1990**, 1038, 85-9 | | 138 |
| 7 | A kinetic study on the suicide inactivation of peroxidase by hydrogen peroxide. *BBA - Proteins and Proteomics*, **1990**, 1041, 43-7 | | 223 |
| 6 | An enzymatic colorimetric method for measuring naringin using 2,2'-azino-bis-(3-ethylbenzthiazoline-6-sulfonic acid)(ABTS) in the presence of peroxidase. *Analytical Biochemistry*, **1990**, 185, 335-8 | 3.1 | 68 |
| 5 | Polyamine and Ethylene Metabolisms During Tomato Fruit Ripening **1990**, 429-433 | | |
| 4 | 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 | | 23 |
| 3 | Oxygen consumption and enzyme inactivation in the indolyl-3-acetic acid oxidation catalyzed by peroxidase. *BBA - Proteins and Proteomics*, **1988**, 955, 194-202 | | 20 |
| 2 | Chitosan induces plant hormones and defences in tomato root exudates | | 1 |
| 1 | Exogenous Melatonin Enhances Cd Tolerance and Phytoremediation Efficiency by Ameliorating Cd-Induced Stress in Oilseed Crops: A Review. *Journal of Plant Growth Regulation*,1 | 4.7 | 6 |