

Maria C De Pinto

List of Publications by Citations

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51
papers

3,260
citations

27
h-index

53
g-index

53
ext. papers

3,638
ext. citations

5
avg, IF

5.05
L-index

| # | Paper | IF | Citations |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 51 | Production of reactive oxygen species, alteration of cytosolic ascorbate peroxidase, and impairment of mitochondrial metabolism are early events in heat shock-induced programmed cell death in tobacco Bright-Yellow 2 cells. <i>Plant Physiology</i> , 2004 , 134, 1100-12 | 6.6 | 327 |
| 50 | The antioxidant systems vis-à-vis reactive oxygen species during plant-pathogen interaction. <i>Plant Physiology and Biochemistry</i> , 2003 , 41, 863-870 | 5.4 | 293 |
| 49 | Changes in the antioxidant systems as part of the signaling pathway responsible for the programmed cell death activated by nitric oxide and reactive oxygen species in tobacco Bright-Yellow 2 cells. <i>Plant Physiology</i> , 2002 , 130, 698-708 | 6.6 | 236 |
| 48 | Hydrogen peroxide, nitric oxide and cytosolic ascorbate peroxidase at the crossroad between defence and cell death. <i>Plant Journal</i> , 2006 , 48, 784-95 | 6.9 | 180 |
| 47 | Increase in ascorbate-glutathione metabolism as local and precocious systemic responses induced by cadmium in durum wheat plants. <i>Plant and Cell Physiology</i> , 2008 , 49, 362-74 | 4.9 | 171 |
| 46 | Redox regulation in plant programmed cell death. <i>Plant, Cell and Environment</i> , 2012 , 35, 234-44 | 8.4 | 163 |
| 45 | Redox regulation and storage processes during maturation in kernels of <i>Triticum durum</i> . <i>Journal of Experimental Botany</i> , 2003 , 54, 249-58 | 7 | 146 |
| 44 | Salinity-induced changes in S-nitrosylation of pea mitochondrial proteins. <i>Journal of Proteomics</i> , 2013 , 79, 87-99 | 3.9 | 131 |
| 43 | S-nitrosylation of ascorbate peroxidase is part of programmed cell death signaling in tobacco Bright Yellow-2 cells. <i>Plant Physiology</i> , 2013 , 163, 1766-75 | 6.6 | 122 |
| 42 | A comparative study of glutathione and ascorbate metabolism during germination of <i>Pinus pinea</i> L. seeds. <i>Journal of Experimental Botany</i> , 2001 , 52, 1647-1654 | 7 | 119 |
| 41 | Changes in the ascorbate metabolism of apoplastic and symplastic spaces are associated with cell differentiation. <i>Journal of Experimental Botany</i> , 2004 , 55, 2559-69 | 7 | 113 |
| 40 | Production of reactive species and modulation of antioxidant network in response to heat shock: a critical balance for cell fate. <i>Plant, Cell and Environment</i> , 2008 , 31, 1606-19 | 8.4 | 105 |
| 39 | Comparative effects of various nitric oxide donors on ferritin regulation, programmed cell death, and cell redox state in plant cells. <i>Journal of Plant Physiology</i> , 2004 , 161, 777-83 | 3.6 | 101 |
| 38 | Effect of some light rare earth elements on seed germination, seedling growth and antioxidant metabolism in <i>Triticum durum</i> . <i>Chemosphere</i> , 2009 , 75, 900-5 | 8.4 | 97 |
| 37 | Ectopic expression of maize polyamine oxidase and pea copper amine oxidase in the cell wall of tobacco plants. <i>Plant Physiology</i> , 2004 , 134, 1414-26 | 6.6 | 90 |
| 36 | Redox homeostasis in plants. The challenge of living with endogenous oxygen production. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 173 Suppl, S13-9 | 2.8 | 80 |
| 35 | Enzymes of the ascorbate biosynthesis and ascorbate-glutathione cycle in cultured cells of tobacco Bright Yellow 2. <i>Plant Physiology and Biochemistry</i> , 2000 , 38, 541-550 | 5.4 | 80 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 34 | Vitamin C in Plants: From Functions to Biofortification. <i>Antioxidants</i> , 2019 , 8, | 7.1 | 57 |
| 33 | Role of redox homeostasis in thermo-tolerance under a climate change scenario. <i>Annals of Botany</i> , 2015 , 116, 487-96 | 4.1 | 50 |
| 32 | Different involvement of the mitochondrial, plastidial and cytosolic ascorbate-glutathione redox enzymes in heat shock responses. <i>Physiologia Plantarum</i> , 2009 , 135, 296-306 | 4.6 | 50 |
| 31 | Lycorine: A powerful inhibitor of L-galactono- δ -lactone dehydrogenase activity. <i>Journal of Plant Physiology</i> , 1997 , 150, 362-364 | 3.6 | 48 |
| 30 | An interdomain network: the endobacterium of a mycorrhizal fungus promotes antioxidative responses in both fungal and plant hosts. <i>New Phytologist</i> , 2016 , 211, 265-75 | 9.8 | 48 |
| 29 | The occurrence of riboflavin kinase and FAD synthetase ensures FAD synthesis in tobacco mitochondria and maintenance of cellular redox status. <i>FEBS Journal</i> , 2009 , 276, 219-31 | 5.7 | 42 |
| 28 | Changes in antioxidants are critical in determining cell responses to short- and long-term heat stress. <i>Physiologia Plantarum</i> , 2015 , 153, 68-78 | 4.6 | 41 |
| 27 | Effects of storage temperature on viability, germination and antioxidant metabolism in Ginkgo biloba L. seeds. <i>Plant Physiology and Biochemistry</i> , 2006 , 44, 359-68 | 5.4 | 31 |
| 26 | Proteasome function is required for activation of programmed cell death in heat shocked tobacco Bright-Yellow 2 cells. <i>FEBS Letters</i> , 2007 , 581, 917-22 | 3.8 | 27 |
| 25 | Exopolysaccharides produced by plant pathogenic bacteria affect ascorbate metabolism in <i>Nicotiana tabacum</i> . <i>Plant and Cell Physiology</i> , 2003 , 44, 803-10 | 4.9 | 27 |
| 24 | Galactone- δ -lactone-dependent ascorbate biosynthesis alters wheat kernel maturation. <i>Plant Biology</i> , 2012 , 14, 652-8 | 3.7 | 26 |
| 23 | In the early phase of programmed cell death in Tobacco Bright Yellow 2 cells the mitochondrial adenine nucleotide translocator, adenylate kinase and nucleoside diphosphate kinase are impaired in a reactive oxygen species-dependent manner. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007 , 1767, 66-78 | 4.6 | 26 |
| 22 | Nitric Oxide and Reactive Oxygen Species in PCD Signaling. <i>Advances in Botanical Research</i> , 2016 , 165-192 | 2.2 | 24 |
| 21 | Involvement of DNA methylation in the control of cell growth during heat stress in tobacco BY-2 cells. <i>Protoplasma</i> , 2015 , 252, 1451-9 | 3.4 | 23 |
| 20 | Constitutive cyclic GMP accumulation in <i>Arabidopsis thaliana</i> compromises systemic acquired resistance induced by an avirulent pathogen by modulating local signals. <i>Scientific Reports</i> , 2016 , 6, 36423 | 4.9 | 23 |
| 19 | Glutamine synthetase in Durum Wheat: Genotypic Variation and Relationship with Grain Protein Content. <i>Frontiers in Plant Science</i> , 2016 , 7, 971 | 6.2 | 21 |
| 18 | Exploring the soluble proteome of Tobacco Bright Yellow-2 cells at the switch towards different cell fates in response to heat shocks. <i>Plant, Cell and Environment</i> , 2010 , 33, 1161-75 | 8.4 | 18 |
| 17 | Cyclic AMP: A Polyhedral Signalling Molecule in Plants. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 16 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 16 | The soluble proteome of tobacco Bright Yellow-2 cells undergoing H ₂ O ₂ induced programmed cell death. <i>Journal of Experimental Botany</i> , 2012 , 63, 3137-55 | 7 | 14 |
| 15 | Genetic buffering of cyclic AMP in <i>Arabidopsis thaliana</i> compromises the plant immune response triggered by an avirulent strain of <i>Pseudomonas syringae</i> pv. tomato. <i>Plant Journal</i> , 2019 , 98, 590-606 | 6.9 | 12 |
| 14 | <i>Gigaspora margarita</i> with and without its endobacterium shows adaptive responses to oxidative stress. <i>Mycorrhiza</i> , 2017 , 27, 747-759 | 3.9 | 12 |
| 13 | <i>Chaetomorpha linum</i> in the bioremediation of aquaculture wastewater: Optimization of nutrient removal efficiency at the laboratory scale. <i>Aquaculture</i> , 2020 , 523, 735133 | 4.4 | 11 |
| 12 | Cyclic AMP deficiency negatively affects cell growth and enhances stress-related responses in tobacco Bright Yellow-2 cells. <i>Plant Molecular Biology</i> , 2016 , 90, 467-83 | 4.6 | 11 |
| 11 | Phenols and Antioxidant Activity in Vitro and in Vivo of Aqueous Extracts Obtained by Ultrasound-Assisted Extraction from Artichoke By-Products. <i>Natural Product Communications</i> , 2014 , 9, 1934578X1400900 | 0.9 | 10 |
| 10 | Dynamic DNA Methylation Patterns in Stress Response. <i>RNA Technologies</i> , 2017 , 281-302 | 0.2 | 9 |
| 9 | Bioremediation of dry olive-mill residue removes inhibition of growth induced by this waste in tomato plants. <i>International Journal of Environmental Science and Technology</i> , 2014 , 11, 21-32 | 3.3 | 8 |
| 8 | Cyclic AMP mediates heat stress response by the control of redox homeostasis and ubiquitin-proteasome system. <i>Plant, Cell and Environment</i> , 2020 , 43, 2727-2742 | 8.4 | 7 |
| 7 | Effects of mineral and organic fertilization with the use of wet olive pomace on durum wheat performance. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2019 , 8, 245-254 | 3.1 | 5 |
| 6 | Plant Cell Cultures as Model Systems to Study Programmed Cell Death. <i>Methods in Molecular Biology</i> , 2018 , 1743, 173-186 | 1.4 | 3 |
| 5 | Chemistry, Biosynthesis, and Antioxidative Function of Glutathione in Plants 2017 , 1-27 | | 3 |
| 4 | The efficient physiological strategy of a novel tomato genotype to adapt to chronic combined water and heat stress. <i>Plant Biology</i> , 2022 , 24, 62-74 | 3.7 | 2 |
| 3 | Nitrogen Metabolism at Tillering Stage Differently Affects the Grain Yield and Grain Protein Content in Two Durum Wheat Cultivars. <i>Diversity</i> , 2019 , 11, 186 | 2.5 | 1 |
| 2 | Filtering Activity and Nutrient Release by the Keratose Sponge <i>Sarcotragus spinosulus</i> Schmidt, 1862 (Porifera, Demospongiae) at the Laboratory Scale. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 178 | 2.4 | 0 |
| 1 | GUN1 involvement in the redox changes occurring during biogenic retrograde signaling. <i>Plant Science</i> , 2022 , 320, 111265 | 5.3 | 0 |