# MariCruz GonzÃ¡lez GarcÃ-a

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 31 papers | 2,530 citations | 304743 22 h-index | 414414 32 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 2927 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Function and regulation of plant invertases: sweet sensations. Trends in Plant Science, 2004, 9, 606-613. | 8.8 | 761 |
| 2 | Extracellular Invertase Is an Essential Component of Cytokinin-Mediated Delay of Senescence[W]. Plant Cell, 2004, 16, 1276-1287. | 6.6 | 316 |
| 3 | Functional analysis of the pathways for 2-Cys peroxiredoxin reduction in Arabidopsis thaliana chloroplasts. Journal of Experimental Botany, 2010, 61, 4043-4054. | 4.8 | 183 |
| 4 | Extracellular invertase is involved in the regulation of clubroot disease in Arabidopsis thaliana. Molecular Plant Pathology, 2011, 12, 247-262. | 4.2 | 91 |
| 5 | NADPH Thioredoxin Reductase C Is Localized in Plastids of Photosynthetic and Nonphotosynthetic Tissues and Is Involved in Lateral Root Formation in Arabidopsis. Plant Cell, 2012, 24, 1534-1548. | 6.6 | 82 |
| 6 | Expression and Localization of Phosphoenolpyruvate Carboxylase in Developing and Germinating Wheat Grains1. Plant Physiology, 1998, 116, 1249-1258. | 4.8 | 79 |
| 7 | NADPH Thioredoxin Reductase C Controls the Redox Status of Chloroplast 2-Cys Peroxiredoxins in Arabidopsis thaliana. Molecular Plant, 2009, 2, 298-307. | 8.3 | 75 |
| 8 | Ectopic overexpression of the cell wall invertase gene CIN1 leads to dehydration avoidance in tomato. Journal of Experimental Botany, 2015, 66, 863-878. | 4.8 | 75 |
| 9 | Abiotic stresses affecting water balance induce phosphoenolpyruvate carboxylase expression in roots of wheat seedlings. Planta, 2003, 216, 985-992. | 3.2 | 69 |
| 10 | Metabolic Control of Tobacco Pollination by Sugars and Invertases. Plant Physiology, 2017, 173, 984-997. | 4.8 | 67 |
| 11 | Regulation of Arbuscular Mycorrhization by Carbon. The Symbiotic Interaction Cannot Be Improved by Increased Carbon Availability Accomplished by Root-Specifically Enhanced Invertase Activity. Plant Physiology, 2007, 143, 1827-1840. | 4.8 | 65 |
| 12 | NTRC new ways of using NADPH in the chloroplast. Physiologia Plantarum, 2008, 133, 516-524. | 5.2 | 63 |
| 13 | NADPH Thioredoxin Reductase C and Thioredoxins Act Concertedly in Seedling Development. Plant Physiology, 2017, 174, 1436-1448. | 4.8 | 62 |
| 14 | Hormonal and metabolic regulation of tomato fruit sink activity and yield under salinity. Journal of Experimental Botany, 2014, 65, 6081-6095. | 4.8 | 61 |
| 15 | Chloroplast Redox Regulatory Mechanisms in Plant Adaptation to Light and Darkness. Frontiers in Plant Science, 2019, 10, 380. | 3.6 | 61 |
| 16 | Redox regulation of chloroplast metabolism. Plant Physiology, 2021, 186, 9-21. | 4.8 | 51 |
| 17 | In Vivo and in Vitro Phosphorylation of the Phosphoenolpyruvate Carboxylase from Wheat Seeds during Germination. Plant Physiology, 1996, 111, 551-558. | 4.8 | 49 |
| 18 | A germination-related gene encoding a serine carboxypeptidase is expressed during the differentiation of the vascular tissue in wheat grains and seedlings. Planta, 2002, 215, 727-734. | 3.2 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Circadian and developmental regulation of vacuolar invertase expression in petioles of sugar beet plants. Planta, 2005, 222, 386-395. | 3.2 | 38 |
| 20 | Gibberellin-dependent induction of tomato extracellular invertase Lin7 is required for pollen development. Functional Plant Biology, 2006, 33, 547. | 2.1 | 33 |
| 21 | Evidence for a Slow-Turnover Form of the Ca2+-Independent Phosphoenolpyruvate Carboxylase Kinase in the Aleurone-Endosperm Tissue of Germinating Barley Seeds1. Plant Physiology, 1999, 119, 511-520. | 4.8 | 31 |
| 22 | Insights into the function of NADPH thioredoxin reductase C (NTRC) based on identification of NTRC-interacting proteins in vivo. Journal of Experimental Botany, 2019, 70, 5787-5798. | 4.8 | 28 |
| 23 | Isolation and characterisation of a wheat phosphoenolpyruvate carboxylase gene. Modelling of the encoded protein. Plant Science, 2002, 162, 233-238. | 3.6 | 23 |
| 24 | The Quaternary Structure of NADPH Thioredoxin Reductase C Is Redox-Sensitive. Molecular Plant, 2009, 2, 457-467. | 8.3 | 23 |
| 25 | Overoxidation of chloroplast 2-Cys peroxiredoxins: balancing toxic and signaling activities of hydrogen peroxide. Frontiers in Plant Science, 2013, 4, 310. | 3.6 | 21 |
| 26 | Gibberellin-regulated expression of neutral and vacuolar invertase genes in petioles of sugar beet plants. Plant Science, 2007, 172, 839-846. | 3.6 | 17 |
| 27 | An event of alternative splicing affects the expression of the NTRC gene, encoding NADPH-thioredoxin reductase C, in seed plants. Plant Science, 2017, 258, 21-28. | 3.6 | 14 |
| 28 | Metabolic control of seedling development by invertases. Functional Plant Biology, 2007, 34, 508. | 2.1 | 13 |
| 29 | Chloroplast redox homeostasis is essential for lateral root formation in Arabidopsis. Plant Signaling and Behavior, 2012, 7, 1177-1179. | 2.4 | 12 |
| 30 | Current Knowledge on Mechanisms Preventing Photosynthesis Redox Imbalance in Plants. Antioxidants, 2021, 10, 1789. | 5.1 | 9 |
| 31 | Photosynthetic activity of cotyledons is critical during post-germinative growth and seedling establishment. Plant Signaling and Behavior, 2017, 12, e1347244. | 2.4 | 7 |