

Monica Balsera

List of Publications by Year in descending order

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28
papers

1,035
citations

471509

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501196

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docs citations

29
times ranked

1352
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Evolution of oxygenic photosynthesis: genome-wide analysis of the OEC extrinsic proteins. Trends in Plant Science, 2004, 9, 18-25. | 8.8 | 95 |
| 2 | Evolutionary Development of Redox Regulation in Chloroplasts. Antioxidants and Redox Signaling, 2014, 21, 1327-1355. | 5.4 | 89 |
| 3 | Characterization of Tic110, a Channel-forming Protein at the Inner Envelope Membrane of Chloroplasts, Unveils a Response to Ca ²⁺ and a Stromal Regulatory Disulfide Bridge. Journal of Biological Chemistry, 2009, 284, 2603-2616. | 3.4 | 88 |
| 4 | TIC62 Redox-regulated Translocon Composition and Dynamics. Journal of Biological Chemistry, 2008, 283, 6656-6667. | 3.4 | 83 |
| 5 | Evolution of the thioredoxin system as a step enabling adaptation to oxidative stress. Free Radical Biology and Medicine, 2019, 140, 28-35. | 2.9 | 77 |
| 6 | Protein import machineries in endosymbiotic organelles. Cellular and Molecular Life Sciences, 2009, 66, 1903-1923. | 5.4 | 66 |
| 7 | Guanine nucleotide binding to the Bateman domain mediates the allosteric inhibition of eukaryotic IMP dehydrogenases. Nature Communications, 2015, 6, 8923. | 12.8 | 63 |
| 8 | The 1.49Å... Resolution Crystal Structure of PsbQ from Photosystem II of Spinacia oleracea Reveals a PPII Structure in the N-terminal Region. Journal of Molecular Biology, 2005, 350, 1051-1060. | 4.2 | 60 |
| 9 | Three-dimensional Electron Cryo-microscopy Study of the Extrinsic Domains of the Oxygen-evolving Complex of Spinach. Journal of Biological Chemistry, 2002, 277, 15006-15012. | 3.4 | 49 |
| 10 | Tic62: a protein family from metabolism to protein translocation. BMC Evolutionary Biology, 2007, 7, 43. | 3.2 | 45 |
| 11 | An Arabidopsis soluble chloroplast proteomic analysis reveals the participation of the Executer pathway in response to increased light conditions. Journal of Experimental Botany, 2015, 66, 2067-2077. | 4.8 | 43 |
| 12 | Thioredoxin targets fundamental processes in a methane-producing archaeon, <i>Methanocaldococcus jannaschii</i> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2608-2613. | 7.1 | 41 |
| 13 | Redox extends its regulatory reach to chloroplast protein import. Trends in Plant Science, 2010, 15, 515-521. | 8.8 | 39 |
| 14 | Ferredoxin:thioredoxin reductase (FTR) links the regulation of oxygenic photosynthesis to deeply rooted bacteria. Planta, 2013, 237, 619-635. | 3.2 | 31 |
| 15 | Increased riboflavin production by manipulation of inosine 5- α -monophosphate dehydrogenase in <i>Ashbya gossypii</i> . Applied Microbiology and Biotechnology, 2015, 99, 9577-9589. | 3.6 | 31 |
| 16 | Structural Analysis of the PsbQ Protein of Photosystem II by Fourier Transform Infrared and Circular Dichroic Spectroscopy and by Bioinformatic Methods. Biochemistry, 2003, 42, 1000-1007. | 2.5 | 22 |
| 17 | Atomic Force Microscopy to Elicit Conformational Transitions of Ferredoxin-Dependent Flavin Thioredoxin Reductases. Antioxidants, 2021, 10, 1437. | 5.1 | 22 |
| 18 | Quaternary Structure of the Oxaloacetate Decarboxylase Membrane Complex and Mechanistic Relationships to Pyruvate Carboxylases. Journal of Biological Chemistry, 2011, 286, 9457-9467. | 3.4 | 15 |

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|----|--|-----|-----------|
| 19 | A New Member of the Thioredoxin Reductase Family from Early Oxygenic Photosynthetic Organisms. <i>Molecular Plant</i> , 2017, 10, 212-215. | 8.3 | 15 |
| 20 | Unprecedented pathway of reducing equivalents in a diflavin-linked disulfide oxidoreductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12725-12730. | 7.1 | 12 |
| 21 | Ferredoxin-linked flavoenzyme defines a family of pyridine nucleotide-independent thioredoxin reductases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12967-12972. | 7.1 | 11 |
| 22 | The single tryptophan of the PsbQ protein of photosystem II is at the end of a 4- α -helical bundle domain. <i>FEBS Journal</i> , 2003, 270, 3916-3927. | 0.2 | 10 |
| 23 | Structure and dynamics of the N-terminal loop of PsbQ from photosystem II of <i>Spinacia oleracea</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 287-291. | 2.1 | 7 |
| 24 | Chapter 10 Protein Import in Chloroplasts. <i>Advances in Botanical Research</i> , 2009, , 277-332. | 1.1 | 5 |
| 25 | Crystal Structure of the Apo-Form of NADPH-Dependent Thioredoxin Reductase from a Methane-Producing Archaeon. <i>Antioxidants</i> , 2018, 7, 166. | 5.1 | 5 |
| 26 | Unexpected diversity of ferredoxin-dependent thioredoxin reductases in cyanobacteria. <i>Plant Physiology</i> , 2021, 186, 285-296. | 4.8 | 5 |
| 27 | Structural Stability of the PsbQ Protein of Higher Plant Photosystem II. <i>Biochemistry</i> , 2004, 43, 14171-14179. | 2.5 | 4 |
| 28 | Thioredoxin Dependent Changes in the Redox States of FurA from <i>Anabaena</i> sp. PCC 7120. <i>Antioxidants</i> , 2021, 10, 913. | 5.1 | 2 |