

# Francesca Sparla

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

2,457  
citations

201575

27  
h-index

243529

44  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2693  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Crystal structure of chloroplastic thioredoxin z defines a type-specific target recognition. <i>Plant Journal</i> , 2021, 107, 434-447.  | 2.8 | 8         |
| 2  | Calvin-Benson cycle regulation is getting complex. <i>Trends in Plant Science</i> , 2021, 26, 898-912.   | 4.3 | 57        |
| 3  | The skeleton of Balanophyllia coral species suggests adaptive traits linked to the onset of mixotrophy. <i>Science of the Total Environment</i> , 2021, 795, 148778.   | 3.9 | 1         |
| 4  | Influence of proteins on mechanical properties of a natural chitin-protein composite. <i>Acta Biomaterialia</i> , 2021, 120, 81-90.  | 4.1 | 13        |
| 5  | A Plant Bioreactor for the Synthesis of Carbon Nanotube Bionic Nanocomposites. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 560349.   | 2.0 | 10        |
| 6  | Impact of Drought on Soluble Sugars and Free Proline Content in Selected Arabidopsis Mutants. <i>Biology</i> , 2020, 9, 367.   | 1.3 | 57        |
| 7  | The Thioredoxin-Regulated Î±-Amylase 3 of Arabidopsis thaliana Is a Target of S-Glutathionylation. <i>Frontiers in Plant Science</i> , 2019, 10, 993.  | 1.7 | 17        |
| 8  | <i>Arabidopsis</i> and <i>Chlamydomonas</i> phosphoribulokinase crystal structures complete the redox structural proteome of the Calvin-Benson cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8048-8053. | 3.3 | 25        |
| 9  | Structural and Biochemical Insights into the Reactivity of Thioredoxin h1 from <i>Chlamydomonas reinhardtii</i> . <i>Antioxidants</i> , 2019, 8, 10.   | 2.2 | 24        |
| 10 | Redox Homeostasis in Photosynthetic Organisms: Novel and Established Thiol-Based Molecular Mechanisms. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 155-210.  | 2.5 | 95        |
| 11 | Combining mutations at genes encoding key enzymes involved in starch synthesis affects the amylose content, carbohydrate allocation and hardness in the wheat grain. <i>Plant Biotechnology Journal</i> , 2018, 16, 1723-1734.                                       | 4.1 | 57        |
| 12 | Redox Regulation of Starch Metabolism. <i>Frontiers in Plant Science</i> , 2018, 9, 1344.  | 1.7 | 52        |
| 13 | The analysis of the different functions of starch-phosphorylating enzymes during the development of <i>Arabidopsis thaliana</i> plants discloses an unexpected role for the cytosolic isoform <i>CWD2</i> . <i>Physiologia Plantarum</i> , 2017, 160, 447-457.       | 2.6 | 10        |
| 14 | Role of the NAD(P)H quinone oxidoreductase NQR and the cytochrome b AIR12 in controlling superoxide generation at the plasma membrane. <i>Planta</i> , 2017, 245, 807-817.   | 1.6 | 17        |
| 15 | Electron current recordings in living cells. <i>Biophysical Chemistry</i> , 2017, 229, 57-61.  | 1.5 | 3         |
| 16 | Photosynthetic properties of spring geophytes assessed by chlorophyll fluorescence analysis. <i>Plant Physiology and Biochemistry</i> , 2017, 118, 510-518.  | 2.8 | 9         |
| 17 | The down-regulation of the genes encoding Isoamylase 1 alters the starch composition of the durum wheat grain. <i>Plant Science</i> , 2016, 252, 230-238.  | 1.7 | 14        |
| 18 | Î²-amylase 1 (BAM1) degrades transitory starch to sustain proline biosynthesis during drought stress. <i>Journal of Experimental Botany</i> , 2016, 67, 1819-1826.   | 2.4 | 156       |

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|----|--|-----|-----------|
| 19 | Tuning Cysteine Reactivity and Sulfenic Acid Stability by Protein Microenvironment in Glycerinaldehyde-3-Phosphate Dehydrogenases of <i>Arabidopsis thaliana</i> . <i>Antioxidants and Redox Signaling</i> , 2016, 24, 502-517.                                  | 2.5 | 31        |
| 20 | AIR12, a b-type cytochrome of the plasma membrane of <i>Arabidopsis thaliana</i> is a negative regulator of resistance against <i>Botrytis cinerea</i> . <i>Plant Science</i> , 2015, 233, 32-43.  | 1.7 | 10        |
| 21 | New insights into redox control of starch degradation. <i>Current Opinion in Plant Biology</i> , 2015, 25, 1-9.  | 3.5 | 47        |
| 22 | Direct Recording of Trans-Plasma Membrane Electron Currents Mediated by a Member of the Cytochrome b561 Family of Soybean. <i>Plant Physiology</i> , 2015, 169, 986-995.   | 2.3 | 21        |
| 23 | Unravelling the shape and structural assembly of the photosynthetic GAPDH-CP12-PRK complex from <i>Arabidopsis thaliana</i> by small-angle X-ray scattering analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 2372-2385. | 2.5 | 13        |
| 24 | How Are Cytochrome b561 Electron Currents Controlled by Membrane Voltage and Substrate Availability?. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 384-391.   | 2.5 | 15        |
| 25 | CP12-mediated protection of Calvin-Benson cycle enzymes from oxidative stress. <i>Biochimie</i> , 2014, 97, 228-237.   | 1.3 | 55        |
| 26 | Biom mineralization in Mediterranean Corals: The Role of the Intraskel etal Organic Matrix. <i>Crystal Growth and Design</i> , 2014, 14, 4310-4320.  | 1.4 | 30        |
| 27 | New Starch Phenotypes Produced by TILLING in Barley. <i>PLoS ONE</i> , 2014, 9, e107779.   | 1.1 | 59        |
| 28 | <i>Arabidopsis thaliana</i> AMY3 Is a Unique Redox-regulated Chloroplastic $\alpha$ -Amylase. <i>Journal of Biological Chemistry</i> , 2013, 288, 33620-33633.   | 1.6 | 79        |
| 29 | Redox regulation of the Calvin-Benson cycle: something old, something new. <i>Frontiers in Plant Science</i> , 2013, 4, 470.   | 1.7 | 355       |
| 30 | Conformational Selection and Folding-upon-binding of Intrinsically Disordered Protein CP12 Regulate Photosynthetic Enzymes Assembly. <i>Journal of Biological Chemistry</i> , 2012, 287, 21372-21383.  | 1.6 | 57        |
| 31 | Starch metabolism mutants in barley: A TILLING approach. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2011, 9, 170-173.  | 0.4 | 7         |
| 32 | Thioredoxin-regulated $\alpha$ -amylase (BAM1) triggers diurnal starch degradation in guard cells, and in mesophyll cells under osmotic stress. <i>Journal of Experimental Botany</i> , 2011, 62, 545-555.   | 2.4 | 182       |
| 33 | The Skeletal Organic Matrix from Mediterranean Coral <i>Balanophyllia europaea</i> Influences Calcium Carbonate Precipitation. <i>PLoS ONE</i> , 2011, 6, e22338.  | 1.1 | 69        |
| 34 | In vitro characterization of <i>Arabidopsis</i> CP12 isoforms reveals common biochemical and molecular properties. <i>Journal of Plant Physiology</i> , 2010, 167, 939-950.  | 1.6 | 39        |
| 35 | Prompt and Easy Activation by Specific Thioredoxins of Calvin Cycle Enzymes of <i>Arabidopsis thaliana</i> Associated in the GAPDH/CP12/PRK Supramolecular Complex. <i>Molecular Plant</i> , 2009, 2, 259-269.   | 3.9 | 136       |
| 36 | Spontaneous Assembly of Photosynthetic Supramolecular Complexes as Mediated by the Intrinsically Unstructured Protein CP12. <i>Journal of Biological Chemistry</i> , 2008, 283, 1831-1838.   | 1.6 | 69        |

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|----|---|-----|-----------|
| 37 | Redox Regulation of a Novel Plastid-Targeted $\hat{I}^2$ -Amylase of Arabidopsis. <i>Plant Physiology</i> , 2006, 141, 840-850.   | 2.3 | 144       |
| 38 | Reconstitution and Properties of the Recombinant Glyceraldehyde-3-Phosphate Dehydrogenase/CP12/Phosphoribulokinase Supramolecular Complex of Arabidopsis. <i>Plant Physiology</i> , 2005, 139, 1433-1443.   | 2.3 | 74        |
| 39 | Regulation of Photosynthetic GAPDH Dissected by Mutants. <i>Plant Physiology</i> , 2005, 138, 2210-2219.  | 2.3 | 52        |
| 40 | Systemic resistance induced by benzothiadiazole in pear inoculated with the agent of fire blight ( <i>Erwinia amylovora</i> ). <i>Scientia Horticulturae</i> , 2004, 101, 269-279.  | 1.7 | 35        |
| 41 | Coenzyme Site-directed Mutants of Photosynthetic A4-GAPDH Show Selectively Reduced NADPH-dependent Catalysis, Similar to Regulatory AB-GAPDH Inhibited by Oxidized Thioredoxin. <i>Journal of Molecular Biology</i> , 2004, 340, 1025-1037.       | 2.0 | 40        |
| 42 | The C-terminal Extension of Glyceraldehyde-3-phosphate Dehydrogenase Subunit B Acts as an Autoinhibitory Domain Regulated by Thioredoxins and Nicotinamide Adenine Dinucleotide. <i>Journal of Biological Chemistry</i> , 2002, 277, 44946-44952. | 1.6 | 97        |
| 43 | Purification of cytochrome b-561 from bean hypocotyls plasma membrane. Evidence for the presence of two heme centers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1468, 1-5.  | 1.4 | 29        |
| 44 | The specificity of mitochondrial complex I for ubiquinones. <i>Biochemical Journal</i> , 1996, 313, 327-334.  | 1.7 | 87        |