

# Giovanni Finazzi

## List of Publications by Year in descending order

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69  
papers

7,615  
citations

53751

45  
h-index

95218

68  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6623  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | The Dynamics of Photosynthesis. Annual Review of Genetics, 2008, 42, 463-515.   | 3.2  | 585       |
| 2  | A Complex Containing PGRL1 and PGR5 Is Involved in the Switch between Linear and Cyclic Electron Flow in Arabidopsis. Cell, 2008, 132, 273-285.   | 13.5 | 496       |
| 3  | Whole-cell response of the pennate diatom <i>Phaeodactylum tricornutum</i> to iron starvation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10438-10443.   | 3.3  | 414       |
| 4  | Energetic coupling between plastids and mitochondria drives CO <sub>2</sub> assimilation in diatoms. Nature, 2015, 524, 366-369.  | 13.7 | 311       |
| 5  | The Response of <i>Nannochloropsis gaditana</i> to Nitrogen Starvation Includes <i>De Novo</i> Biosynthesis of Triacylglycerols, a Decrease of Chloroplast Galactolipids, and Reorganization of the Photosynthetic Apparatus. Eukaryotic Cell, 2013, 12, 665-676. | 3.4  | 301       |
| 6  | Glycerolipids in photosynthesis: Composition, synthesis and trafficking. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 470-480.  | 0.5  | 296       |
| 7  | Membrane Glycerolipid Remodeling Triggered by Nitrogen and Phosphorus Starvation in <i>Phaeodactylum tricornutum</i> . Plant Physiology, 2015, 167, 118-136.  | 2.3  | 286       |
| 8  | An atypical member of the light-harvesting complex stress-related protein family modulates diatom responses to light. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18214-18219.                                    | 3.3  | 258       |
| 9  | Involvement of state transitions in the switch between linear and cyclic electron flow in <i>Chlamydomonas reinhardtii</i> . EMBO Reports, 2002, 3, 280-285.  | 2.0  | 235       |
| 10 | A Dual Strategy to Cope with High Light in <i>Chlamydomonas reinhardtii</i> . Plant Cell, 2013, 25, 545-557.  | 3.1  | 193       |
| 11 | HMA1, a New Cu-ATPase of the Chloroplast Envelope, Is Essential for Growth under Adverse Light Conditions. Journal of Biological Chemistry, 2006, 281, 2882-2892.   | 1.6  | 191       |
| 12 | Electrochromism: a useful probe to study algal photosynthesis. Photosynthesis Research, 2010, 106, 179-189.   | 1.6  | 184       |
| 13 | Diatom PtCPF1 is a new cryptochrome/photolyase family member with DNA repair and transcription regulation activity. EMBO Reports, 2009, 10, 655-661.  | 2.0  | 168       |
| 14 | State transitions, cyclic and linear electron transport and photophosphorylation in <i>Chlamydomonas reinhardtii</i> . Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1413, 117-129.  | 0.5  | 158       |
| 15 | Alternative photosynthetic electron flow to oxygen in marine <i>Synechococcus</i> . Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 269-276.   | 0.5  | 155       |
| 16 | An original adaptation of photosynthesis in the marine green alga <i>Ostreococcus</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7881-7886.  | 3.3  | 154       |
| 17 | Calcium-dependent regulation of cyclic photosynthetic electron transfer by a CAS, ANR1, and PGRL1 complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17717-17722.   | 3.3  | 151       |
| 18 | Comparative phosphoproteome profiling reveals a function of the STN8 kinase in fine-tuning of cyclic electron flow (CEF). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12955-12960.                                | 3.3  | 148       |

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|----|---|-----|-----------|
| 19 | A Thylakoid-Located Two-Pore K <sup>+</sup> Channel Controls Photosynthetic Light Utilization in Plants. <i>Science</i> , 2013, 342, 114-118.   | 6.0 | 146       |
| 20 | A zeaxanthin-independent nonphotochemical quenching mechanism localized in the photosystem II core complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12375-12380.  | 3.3 | 132       |
| 21 | Regulation of electron transport in microalgae. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 912-918.   | 0.5 | 129       |
| 22 | The role of PGR5 in the redox poising of photosynthetic electron transport. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 1252-1259.   | 0.5 | 124       |
| 23 | Redox Modulation of Cyclic Electron Flow around Photosystem I in C3 Plants. <i>Biochemistry</i> , 2006, 45, 13465-13475.  | 1.2 | 120       |
| 24 | PGR5-PGRL1-Dependent Cyclic Electron Transport Modulates Linear Electron Transport Rate in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2016, 9, 271-288.   | 3.9 | 119       |
| 25 | Impaired respiration discloses the physiological significance of state transitions in <i>Chlamydomonas</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15979-15984. | 3.3 | 115       |
| 26 | The Biosynthetic Capacities of the Plastids and Integration Between Cytoplasmic and Chloroplast Processes. <i>Annual Review of Genetics</i> , 2012, 46, 233-264.  | 3.2 | 115       |
| 27 | Ions channels/transporters and chloroplast regulation. <i>Cell Calcium</i> , 2015, 58, 86-97.   | 1.1 | 111       |
| 28 | Deciphering Thylakoid Sub-compartments using a Mass Spectrometry-based Approach. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2147-2167.  | 2.5 | 96        |
| 29 | Multisignal control of expression of the LHCX protein family in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 3939-3951.   | 2.4 | 93        |
| 30 | Plastid thylakoid architecture optimizes photosynthesis in diatoms. <i>Nature Communications</i> , 2017, 8, 15885.  | 5.8 | 93        |
| 31 | Plastid terminal oxidase (PTOX) has the potential to act as a safety valve for excess excitation energy in the alpine plant species <i>Ranunculus glacialis</i> ... <i>Plant, Cell and Environment</i> , 2013, 36, 1296-1310. | 2.8 | 88        |
| 32 | Investigating mixotrophic metabolism in the model diatom <i>Phaeodactylum tricornutum</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160404.                              | 1.8 | 85        |
| 33 | PGRL1 Participates in Iron-induced Remodeling of the Photosynthetic Apparatus and in Energy Metabolism in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 32770-32781.                 | 1.6 | 81        |
| 34 | Kinetic properties and physiological role of the plastoquinone terminal oxidase (PTOX) in a vascular plant. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 2140-2148.                                     | 0.5 | 76        |
| 35 | Fine-tuned regulation of the K <sup>+</sup> /H <sup>+</sup> antiporter KEA3 is required to optimize photosynthesis during induction. <i>Plant Journal</i> , 2017, 89, 540-553.  | 2.8 | 74        |
| 36 | Adjustments of embryonic photosynthetic activity modulate seed fitness in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2015, 205, 707-719.  | 3.5 | 65        |

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|----|---|------|-----------|
| 37 | Thylakoid potassium channel is required for efficient photosynthesis in cyanobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11043-11048.   | 3.3  | 64        |
| 38 | Catalytic Reactions and Energy Conservation in the Cytochrome <i>b<sub>6</sub></i> and <i>f</i> Complexes of Energy-Transducing Membranes. Chemical Reviews, 2021, 121, 2020-2108.  | 23.0 | 63        |
| 39 | In Vivo Characterization of the Electrochemical Proton Gradient Generated in Darkness in Green Algae and Its Kinetic Effects on Cytochrome <i>b<sub>6</sub>f</i> Turnover. Biochemistry, 1998, 37, 9999-10005.  | 1.2  | 61        |
| 40 | HMA1 and PAA1, two chloroplast-envelope PIB-ATPases, play distinct roles in chloroplast copper homeostasis. Journal of Experimental Botany, 2014, 65, 1529-1540.  | 2.4  | 60        |
| 41 | The Water to Water Cycles in Microalgae. Plant and Cell Physiology, 2016, 57, pcw048.   | 1.5  | 58        |
| 42 | Ion Channels in Plant Bioenergetic Organelles, Chloroplasts and Mitochondria: From Molecular Identification to Function. Molecular Plant, 2016, 9, 371-395.   | 3.9  | 57        |
| 43 | In Vivo Changes of the Oxidation-Reduction State of NADP and of the ATP/ADP Cellular Ratio Linked to the Photosynthetic Activity in <i>Chlamydomonas reinhardtii</i> . Plant Physiology, 2003, 132, 1464-1474.  | 2.3  | 55        |
| 44 | Ultrastructure of the Periplastidial Compartment of the Diatom <i>Phaeodactylum tricornutum</i> . Protist, 2016, 167, 254-267.  | 0.6  | 54        |
| 45 | Morphological bases of phytoplankton energy management and physiological responses unveiled by 3D subcellular imaging. Nature Communications, 2021, 12, 1049.   | 5.8  | 51        |
| 46 | Function-Directed Mutagenesis of the Cytochrome <i>b<sub>6</sub>f</i> Complex in <i>Chlamydomonas reinhardtii</i> : Involvement of the <i>cd</i> Loop of Cytochrome <i>b<sub>6</sub></i> in Quinol Binding to the <i>Q<sub>o</sub></i> Site. Biochemistry, 1997, 36, 2867-2874. | 1.2  | 46        |
| 47 | Dynamic Changes between Two LHCX-Related Energy Quenching Sites Control Diatom Photoacclimation. Plant Physiology, 2018, 177, 953-965.  | 2.3  | 46        |
| 48 | Algal Remodeling in a Ubiquitous Planktonic Photosymbiosis. Current Biology, 2019, 29, 968-978.e4.  | 1.8  | 45        |
| 49 | Proton equilibration in the chloroplast modulates multiphasic kinetics of nonphotochemical quenching of fluorescence in plants. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12728-12733.  | 3.3  | 39        |
| 50 | The onset of NPQ and $\hat{p}H^+$ upon illumination of tobacco plants studied through the influence of mitochondrial electron transport. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 177-188.  | 0.5  | 34        |
| 51 | Photoacclimation of photosynthesis in the Eustigmatophycean <i>Nannochloropsis gaditana</i> . Photosynthesis Research, 2016, 129, 291-305.  | 1.6  | 34        |
| 52 | An update on the regulation of photosynthesis by thylakoid ion channels and transporters in <i>Arabidopsis</i> . Physiologia Plantarum, 2017, 161, 16-27.   | 2.6  | 33        |
| 53 | Embryonic Photosynthesis Affects Post-Germination Plant Growth. Plant Physiology, 2020, 182, 2166-2181.   | 2.3  | 33        |
| 54 | Cytoklepty in the plankton: A host strategy to optimize the bioenergetic machinery of endosymbiotic algae. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .  | 3.3  | 27        |

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|----|--|-----|-----------|
| 55 | Plastoquinone homeostasis by Arabidopsis proton gradient regulation 6 is essential for photosynthetic efficiency. <i>Communications Biology</i> , 2019, 2, 220.  | 2.0 | 24        |
| 56 | Mixotrophic growth of the extremophile <i>Galdieria sulphuraria</i> reveals the flexibility of its carbon assimilation metabolism. <i>New Phytologist</i> , 2021, 231, 326-338.                            | 3.5 | 24        |
| 57 | Mutation of the Atypical Kinase ABC1K3 Partially Rescues the PROTON GRADIENT REGULATION 6 Phenotype in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2020, 11, 337.                            | 1.7 | 23        |
| 58 | Identification of the Arabidopsis Calmodulin-Dependent NAD <sup>+</sup> Kinase That Sustains the Elicitor-Induced Oxidative Burst. <i>Plant Physiology</i> , 2019, 181, 1449-1458.                         | 2.3 | 19        |
| 59 | Regulation of photosynthetic electron flow on dark to light transition by ferredoxin:NADP(H) oxidoreductase interactions. <i>ELife</i> , 2021, 10, .   | 2.8 | 18        |
| 60 | Cyclic electron flow: facts and hypotheses. <i>Photosynthesis Research</i> , 2016, 129, 227-230.   | 1.6 | 17        |
| 61 | Subcellular architecture and metabolic connection in the planktonic photosymbiosis between <i>Collodaria</i> (radiolarians) and their microalgae. <i>Environmental Microbiology</i> , 2021, 23, 6569-6586. | 1.8 | 14        |
| 62 | Boosting Biomass Quantity and Quality by Improved Mixotrophic Culture of the Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 642199.                               | 1.7 | 12        |
| 63 | Protection of photosystem I during sudden light stress depends on ferredoxin:NADP(H) reductase abundance and interactions. <i>Plant Physiology</i> , 2022, 188, 1028-1042.                                 | 2.3 | 10        |
| 64 | Trade-off between sex and growth in diatoms: Molecular mechanisms and demographic implications. <i>Science Advances</i> , 2022, 8, eabj9466.   | 4.7 | 10        |
| 65 | Characterization of the Bubblegum acyl-CoA synthetase of <i>Microchloropsis gaditana</i> . <i>Plant Physiology</i> , 2021, 185, 815-835.   | 2.3 | 9         |
| 66 | Consequences of Mixotrophy on Cell Energetic Metabolism in <i>Microchloropsis gaditana</i> Revealed by Genetic Engineering and Metabolic Approaches. <i>Frontiers in Plant Science</i> , 2021, 12, 628684. | 1.7 | 8         |
| 67 | Impaired photoprotection in <i>Phaeodactylum tricornutum</i> KEA3 mutants reveals the proton regulatory circuit of diatoms light acclimation. <i>New Phytologist</i> , 2022, 234, 578-591.                 | 3.5 | 8         |
| 68 | Regulation of Electron Transport in Photosynthesis. , 2014, , 437-464.   |     | 7         |
| 69 | Global spectroscopic analysis to study the regulation of the photosynthetic proton motive force: A critical reappraisal. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 676-683.       | 0.5 | 6         |