

# 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	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
2	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
3	Trade-off between sex and growth in diatoms: Molecular mechanisms and demographic implications. <i>Science Advances</i> , 2022, 8, eabj9466.	4.7	10
4	Characterization of the Bubblegum acyl-CoA synthetase of <i>Microchloropsis gaditana</i> . <i>Plant Physiology</i> , 2021, 185, 815-835.	2.3	9
5	Catalytic Reactions and Energy Conservation in the Cytochrome <i>b<sub>6</sub></i> and <i>f<sub>6</sub></i> Complexes of Energy-Transducing Membranes. <i>Chemical Reviews</i> , 2021, 121, 2020-2108.	23.0	63
6	Morphological bases of phytoplankton energy management and physiological responses unveiled by 3D subcellular imaging. <i>Nature Communications</i> , 2021, 12, 1049.	5.8	51
7	Regulation of photosynthetic electron flow on dark to light transition by ferredoxin:NADP(H) oxidoreductase interactions. <i>ELife</i> , 2021, 10, .	2.8	18
8	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
9	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
10	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
11	Cytokleptly in the plankton: A host strategy to optimize the bioenergetic machinery of endosymbiotic algae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	27
12	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
13	Mutation of the Atypical Kinase ABC1K3 Partially Rescues the PROTON GRADIENT REGULATION 6 Phenotype in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 337.	1.7	23
14	Embryonic Photosynthesis Affects Post-Germination Plant Growth. <i>Plant Physiology</i> , 2020, 182, 2166-2181.	2.3	33
15	Identification of the <i>Arabidopsis</i> Calmodulin-Dependent NAD <sup>+</sup> Kinase That Sustains the Elicitor-Induced Oxidative Burst. <i>Plant Physiology</i> , 2019, 181, 1449-1458.	2.3	19
16	Plastoquinone homeostasis by <i>Arabidopsis</i> proton gradient regulation 6 is essential for photosynthetic efficiency. <i>Communications Biology</i> , 2019, 2, 220.	2.0	24
17	Algal Remodeling in a Ubiquitous Planktonic Photosymbiosis. <i>Current Biology</i> , 2019, 29, 968-978.e4.	1.8	45
18	Dynamic Changes between Two LHCX-Related Energy Quenching Sites Control Diatom Photoacclimation. <i>Plant Physiology</i> , 2018, 177, 953-965.	2.3	46

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19	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
20	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
21	Plastid thylakoid architecture optimizes photosynthesis in diatoms. <i>Nature Communications</i> , 2017, 8, 15885.	5.8	93
22	An update on the regulation of photosynthesis by thylakoid ion channels and transporters in <i>Arabidopsis</i> . <i>Physiologia Plantarum</i> , 2017, 161, 16-27.	2.6	33
23	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
24	Ultrastructure of the Periplastidial Compartment of the Diatom <i>Phaeodactylum tricornutum</i> . <i>Protist</i> , 2016, 167, 254-267.	0.6	54
25	Cyclic electron flow: facts and hypotheses. <i>Photosynthesis Research</i> , 2016, 129, 227-230.	1.6	17
26	Photoacclimation of photosynthesis in the Eustigmatophycean <i>Nannochloropsis gaditana</i> . <i>Photosynthesis Research</i> , 2016, 129, 291-305.	1.6	34
27	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
28	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
29	The Water to Water Cycles in Microalgae. <i>Plant and Cell Physiology</i> , 2016, 57, pcw048.	1.5	58
30	Ion Channels in Plant Bioenergetic Organelles, Chloroplasts and Mitochondria: From Molecular Identification to Function. <i>Molecular Plant</i> , 2016, 9, 371-395.	3.9	57
31	Energetic coupling between plastids and mitochondria drives CO <sub>2</sub> assimilation in diatoms. <i>Nature</i> , 2015, 524, 366-369.	13.7	311
32	Membrane Glycerolipid Remodeling Triggered by Nitrogen and Phosphorus Starvation in <i>Phaeodactylum tricornutum</i> . <i>Plant Physiology</i> , 2015, 167, 118-136.	2.3	286
33	Ions channels/transporters and chloroplast regulation. <i>Cell Calcium</i> , 2015, 58, 86-97.	1.1	111
34	Adjustments of embryonic photosynthetic activity modulate seed fitness in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2015, 205, 707-719.	3.5	65
35	Regulation of Electron Transport in Photosynthesis. , 2014, , 437-464.		7
36	Glycerolipids in photosynthesis: Composition, synthesis and trafficking. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 470-480.	0.5	296

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37	HMA1 and PAA1, two chloroplast-envelope PIB-ATPases, play distinct roles in chloroplast copper homeostasis. <i>Journal of Experimental Botany</i> , 2014, 65, 1529-1540.	2.4	60
38	Deciphering Thylakoid Sub-compartments using a Mass Spectrometry-based Approach. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2147-2167.	2.5	96
39	A Dual Strategy to Cope with High Light in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2013, 25, 545-557.	3.1	193
40	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. <i>Eukaryotic Cell</i> , 2013, 12, 665-676.	3.4	301
41	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
42	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
43	Thylakoid potassium channel is required for efficient photosynthesis in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11043-11048.	3.3	64
44	Calcium-dependent regulation of cyclic photosynthetic electron transfer by a CAS, ANR1, and PGRL1 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17717-17722.	3.3	151
45	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
46	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
47	Regulation of electron transport in microalgae. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 912-918.	0.5	129
48	Comparative phosphoproteome profiling reveals a function of the STN8 kinase in fine-tuning of cyclic electron flow (CEF). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12955-12960.	3.3	148
49	Electrochromism: a useful probe to study algal photosynthesis. <i>Photosynthesis Research</i> , 2010, 106, 179-189.	1.6	184
50	The onset of NPQ and $\hat{p}H_+$ upon illumination of tobacco plants studied through the influence of mitochondrial electron transport. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 177-188.	0.5	34
51	An atypical member of the light-harvesting complex stress-related protein family modulates diatom responses to light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18214-18219.	3.3	258
52	Proton equilibration in the chloroplast modulates multiphasic kinetics of nonphotochemical quenching of fluorescence in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12728-12733.	3.3	39
53	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
54	Diatom PtCPF1 is a new cryptochrome/photolyase family member with DNA repair and transcription regulation activity. <i>EMBO Reports</i> , 2009, 10, 655-661.	2.0	168

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55	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
56	Alternative photosynthetic electron flow to oxygen in marine <i>Synechococcus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 269-276.	0.5	155
57	The Dynamics of Photosynthesis. <i>Annual Review of Genetics</i> , 2008, 42, 463-515.	3.2	585
58	A Complex Containing PGRL1 and PGR5 Is Involved in the Switch between Linear and Cyclic Electron Flow in <i>Arabidopsis</i> . <i>Cell</i> , 2008, 132, 273-285.	13.5	496
59	An original adaptation of photosynthesis in the marine green alga <i>Ostreococcus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7881-7886.	3.3	154
60	Whole-cell response of the pennate diatom <i>Phaeodactylum tricornutum</i> to iron starvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10438-10443.	3.3	414
61	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
62	Redox Modulation of Cyclic Electron Flow around Photosystem I in C3 Plants. <i>Biochemistry</i> , 2006, 45, 13465-13475.	1.2	120
63	HMA1, a New Cu-ATPase of the Chloroplast Envelope, Is Essential for Growth under Adverse Light Conditions. <i>Journal of Biological Chemistry</i> , 2006, 281, 2882-2892.	1.6	191
64	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
65	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> . <i>Plant Physiology</i> , 2003, 132, 1464-1474.	2.3	55
66	Involvement of state transitions in the switch between linear and cyclic electron flow in <i>Chlamydomonas reinhardtii</i> . <i>EMBO Reports</i> , 2002, 3, 280-285.	2.0	235
67	State transitions, cyclic and linear electron transport and photophosphorylation in <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999, 1413, 117-129.	0.5	158
68	In Vivo Characterization of the Electrochemical Proton Gradient Generated in Darkness in Green Algae and Its Kinetic Effects on Cytochrome b6f Turnover. <i>Biochemistry</i> , 1998, 37, 9999-10005.	1.2	61
69	Function-Directed Mutagenesis of the Cytochrome b6f Complex in <i>Chlamydomonas reinhardtii</i> : Involvement of the cd Loop of Cytochrome b6 in Quinol Binding to the Qo Site. <i>Biochemistry</i> , 1997, 36, 2867-2874.	1.2	46