Giles N Johnson

List of Publications by Citations

58 papers	11,174 citations	32 h-index	68 g-index
68 ext. papers	12,731 ext. citations	5.3 avg, IF	6.62 L-index

#	Paper	IF	Citations
58	Chlorophyll fluorescence□ practical guide. *Journal of Experimental Botany*, **2000**, 51, 659-668	7	5654
57	Chlorophyll fluorescence--a practical guide. *Journal of Experimental Botany*, **2000**, 51, 659-68	7	1302
56	New Fluorescence Parameters for the Determination of QA Redox State and Excitation Energy Fluxes. *Photosynthesis Research*, **2004**, 79, 209	3.7	1053
55	Contrasting responses of photosynthesis to salt stress in the glycophyte Arabidopsis and the halophyte thellungiella: role of the plastid terminal oxidase as an alternative electron sink. *Plant Physiology*, **2009**, 149, 1154-65	6.6	314
54	Regulation of cyclic and linear electron flow in higher plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 13317-22	11.5	260
53	Down-regulation of linear and activation of cyclic electron transport during drought. *Planta*, **2003**, 218, 107-14	4.7	230
52	Physiology of PSI cyclic electron transport in higher plants. *Biochimica Et Biophysica Acta - Bioenergetics*, **2011**, 1807, 384-9	4.6	165
51	Cyclic electron transport in C3 plants: fact or artefact?. *Journal of Experimental Botany*, **2005**, 56, 407-16	7	137
50	Physiological characterisation of magnesium deficiency in sugar beet: acclimation to low magnesium differentially affects photosystems I and II. *Planta*, **2004**, 220, 344-55	4.7	136
49	Dynamic acclimation of photosynthesis increases plant fitness in changing environments. *Plant Physiology*, **2010**, 152, 366-73	6.6	130
48	A zeaxanthin-independent nonphotochemical quenching mechanism localized in the photosystem II core complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 12375-80	11.5	123
47	The role of PGR5 in the redox poising of photosynthetic electron transport. *Biochimica Et Biophysica Acta - Bioenergetics*, **2007**, 1767, 1252-9	4.6	115
46	Redox modulation of cyclic electron flow around photosystem I in C3 plants. *Biochemistry*, **2006**, 45, 13465-75	3.2	109
45	In vivo temperature dependence of cyclic and pseudocyclic electron transport in barley. *Planta*, **2001**, 212, 808-16	4.7	98
44	A novel mechanism by which silica defends grasses against herbivory. *Annals of Botany*, **2008**, 102, 653-6	4.1	88
43	The origin of 40□0□C thermoluminescence bands in Photosystem II. *Biochimica Et Biophysica Acta - Bioenergetics*, **1994**, 1184, 85-92	4.6	85
42	Nonphotochemical quenching of chlorophyll fluorescence in Chlamydomonas reinhardtii. *Biochemistry*, **2006**, 45, 1490-8	3.2	74

41	Reduction of the thylakoid electron transport chain by stromal reductants--evidence for activation of cyclic electron transport upon dark adaptation or under drought. *Planta*, **2004**, 220, 356-63	4.7	71
40	Regulation of the photosynthetic electron transport chain. *Planta*, **1999**, 209, 250-258	4.7	68
39	Feedback regulation of photosynthetic electron transport by NADP(H) redox poise. *Biochimica Et Biophysica Acta - Bioenergetics*, **2008**, 1777, 433-40	4.6	61
38	Sorghum (Sorghum bicolor) varieties adopt strongly contrasting strategies in response to drought. *Physiologia Plantarum*, **2014**, 152, 389-401	4.6	59
37	Photosynthetic acclimation of higher plants to growth in fluctuating light environments. *Photosynthesis Research*, **2000**, 63, 97-107	3.7	59
36	Exploiting heterogeneous environments: does photosynthetic acclimation optimize carbon gain in fluctuating light?. *Journal of Experimental Botany*, **2015**, 66, 2437-47	7	55
35	Contrasting strategies for UV-B screening in sub-Arctic dwarf shrubs. *Plant, Cell and Environment*, **2003**, 26, 957-964	8.4	55
34	Reprint of: physiology of PSI cyclic electron transport in higher plants. *Biochimica Et Biophysica Acta - Bioenergetics*, **2011**, 1807, 906-11	4.6	52
33	Acclimation of metabolism to light in Arabidopsis thaliana: the glucose 6-phosphate/phosphate translocator GPT2 directs metabolic acclimation. *Plant, Cell and Environment*, **2015**, 38, 1404-17	8.4	51
32	Flux balance analysis reveals acetate metabolism modulates cyclic electron flow and alternative glycolytic pathways in Chlamydomonas reinhardtii. *Frontiers in Plant Science*, **2015**, 6, 474	6.2	44
31	Putative function of cytochrome b559 as a plastoquinol oxidase. *Physiologia Plantarum*, **2010**, 138, 463-73	4.6	38
30	Thiol regulation of the thylakoid electron transport chain--a missing link in the regulation of photosynthesis?. *Biochemistry*, **2003**, 42, 3040-4	3.2	37
29	Biochemical Analyses of Sorghum Varieties Reveal Differential Responses to Drought. *PLoS ONE*, **2016**, 11, e0154423	3.7	36
28	FUM2, a Cytosolic Fumarase, Is Essential for Acclimation to Low Temperature in Arabidopsis thaliana. *Plant Physiology*, **2016**, 172, 118-27	6.6	32
27	Adaptations to extreme low light in the fern Trichomanes speciosum. *New Phytologist*, **2000**, 148, 423-431	3.8	32
26	Drought neutralises plant-soil feedback of two mesic grassland forbs. *Oecologia*, **2018**, 186, 1113-1125	2.9	29
25	Is electron transport to oxygen an important mechanism in photoprotection? Contrasting responses from Antarctic vascular plants. *Physiologia Plantarum*, **2007**, 130, 185-194	4.6	29
24	Activation of non-photochemical quenching in thylakoids and leaves. *Planta*, **1994**, 194, 550-556	4.7	26

23	Dynamic Acclimation to High Light in Involves Widespread Reengineering of the Leaf Proteome. *Frontiers in Plant Science*, **2017**, 8, 1239	6.2	22
22	GPT2: a glucose 6-phosphate/phosphate translocator with a novel role in the regulation of sugar signalling during seedling development. *Annals of Botany*, **2014**, 113, 643-52	4.1	22
21	Thermoluminescence as a probe of Photosystem II in intact leaves: Non-photochemical fluorescence quenching in peas grown in an intermittent light regime. *Photosynthesis Research*, **1994**, 41, 371-9	3.7	22
20	Flux sampling is a powerful tool to study metabolism under changing environmental conditions. *Npj Systems Biology and Applications*, **2019**, 5, 32	5	19
19	Plastid Terminal Oxidase as a Route to Improving Plant Stress Tolerance: Known Knowns and Known Unknowns. *Plant and Cell Physiology*, **2016**, 57, 1387-1396	4.9	19
18	Competition between linear and cyclic electron flow in plants deficient in Photosystem I. *Biochimica Et Biophysica Acta - Bioenergetics*, **2008**, 1777, 1173-83	4.6	17
17	Equilibration between cytochrome f and P700 in intact leaves. *Biochimica Et Biophysica Acta - Bioenergetics*, **2005**, 1706, 105-9	4.6	17
16	Metabolic acclimation-a key to enhancing photosynthesis in changing environments?. *Journal of Experimental Botany*, **2019**, 70, 3043-3056	7	16
15	From empirical to theoretical models of light response curves - linking photosynthetic and metabolic acclimation. *Photosynthesis Research*, **2020**, 145, 5-14	3.7	16
14	Plastid terminal oxidase requires translocation to the grana stacks to act as a sink for electron transport. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9634-9639	11.5	16
13	Inhibition of electron transport at the cytochrome b(6)f complex protects photosystem II from photoinhibition. *FEBS Letters*, **2000**, 486, 191-4	3.8	15
12	Controversy remains: regulation of pH gradient across the thylakoid membrane. *Trends in Plant Science*, **2004**, 9, 570-1; author reply 571-2	13.1	10
11	Gas exchange measurements for the determination of photosynthetic efficiency in Arabidopsis leaves. *Methods in Molecular Biology*, **2011**, 775, 311-26	1.4	9
10	Photosynthesis in variable environments. *Journal of Experimental Botany*, **2015**, 66, 2371-2	7	7
9	A Holistic Approach to Study Photosynthetic Acclimation Responses of Plants to Fluctuating Light. *Frontiers in Plant Science*, **2021**, 12, 668512	6.2	6
8	Contrasting Responses to Stress Displayed by Tobacco Overexpressing an Algal Plastid Terminal Oxidase in the Chloroplast. *Frontiers in Plant Science*, **2020**, 11, 501	6.2	5
7	The effects of elevated light on Photosystem II function: A thermoluminescence study. *Photosynthesis Research*, **1997**, 54, 169-183	3.7	5
6	Regulation of Electron Transport in Photosynthesis **2014**, 437-464		4

5	Cyclic decomposition explains a photosynthetic down regulation for Chlamydomonas reinhardtii. *BioSystems*, **2017**, 162, 119-127	1.9	2
4	Metabolic flux from the chloroplast provides signals controlling photosynthetic acclimation to cold in Arabidopsis thaliana. *Plant, Cell and Environment*, **2021**, 44, 171-185	8.4	2
3	The Cytochrome b6f Complex: A Regulatory Hub Controlling Electron Flow and the Dynamics of Photosynthesis?. *Advances in Photosynthesis and Respiration*, **2016**, 437-452	1.7	0
2	Acclimation of Photosynthesis to Changes in the Environment Results in Decreases of Oxidative Stress in. *Frontiers in Plant Science*, **2021**, 12, 683986	6.2	0
1	Genetically based adaptive trait shifts at an expanding mangrove range margin. *Hydrobiologia*, **2022** , 849, 1777-1794	2.4	