

Matthew Johnson

List of Publications by Year in descending order

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67
papers

4,422
citations

109321

35
h-index

110387

64
g-index

70
all docs

70
docs citations

70
times ranked

3308
citing authors

#	ARTICLE	IF	CITATIONS
1	FRET measurement of cytochrome bc ₁ and reaction centre complex proximity in live <i>Rhodobacter sphaeroides</i> cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148508.	1.0	5
2	Changes in supramolecular organization of cyanobacterial thylakoid membrane complexes in response to far-red light photoacclimation. <i>Science Advances</i> , 2022, 8, eabj4437.	10.3	9
3	Cryo-EM structures of the <i>Synechocystis</i> sp. PCC 6803 cytochrome <i>b₆f</i> complex with and without the regulatory PetP subunit. <i>Biochemical Journal</i> , 2022, 479, 1487-1503.	3.7	7
4	Developmental acclimation of the thylakoid proteome to light intensity in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2021, 105, 223-244.	5.7	43
5	Dynamic thylakoid stacking and state transitions work synergistically to avoid acceptor-side limitation of photosystem I. <i>Nature Plants</i> , 2021, 7, 87-98.	9.3	42
6	A recombineering pipeline to clone large and complex genes in <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2021, 33, 1161-1181.	6.6	19
7	Cytochrome <i>b₆f</i> – Orchestrator of photosynthetic electron transfer. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148380.	1.0	75
8	Proton motive force in plant photosynthesis dominated by $\hat{p}H$ in both low and high light. <i>Plant Physiology</i> , 2021, 187, 263-275.	4.8	14
9	Membrane-dependent heterogeneity of LHCII characterized using single-molecule spectroscopy. <i>Biophysical Journal</i> , 2021, 120, 3091-3102.	0.5	12
10	Comparative proteomics of thylakoids from <i>Arabidopsis</i> grown in laboratory and field conditions. <i>Plant Direct</i> , 2021, 5, e355.	1.9	4
11	Inhibition of <i>Arabidopsis</i> stomatal development by plastoquinone oxidation. <i>Current Biology</i> , 2021, 31, 5622-5632.e7.	3.9	8
12	The relevance of dynamic thylakoid organisation to photosynthetic regulation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148039.	1.0	59
13	Just the essentials: photoprotective energy dissipation pared-down. <i>Journal of Experimental Botany</i> , 2020, 71, 3380-3382.	4.8	3
14	Modeling the Role of LHCII-LHCII, PSII-LHCII, and Ψ PSI-LHCII Interactions in State Transitions. <i>Biophysical Journal</i> , 2020, 119, 287-299.	0.5	11
15	Xanthophyll carotenoids stabilise the association of cyanobacterial chlorophyll synthase with the LHC-like protein HliD. <i>Biochemical Journal</i> , 2020, 477, 4021-4036.	3.7	15
16	Membrane organization of photosystem I complexes in the most abundant phototroph on Earth. <i>Nature Plants</i> , 2019, 5, 879-889.	9.3	22
17	Single-molecule study of redox control involved in establishing the spinach plastocyanin-cytochrome <i>b₆f</i> electron transfer complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 591-599.	1.0	4
18	Cryo-EM structure of the spinach cytochrome <i>b₆f</i> complex at 3.6 Å resolution. <i>Nature</i> , 2019, 575, 535-539.	23.8	83

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19	Dynamic Thylakoid Stacking Is Regulated by LHCII Phosphorylation but Not Its interaction with PSI. <i>Plant Physiology</i> , 2019, 180, 2152-2166.	4.8	54
20	Turning the challenge of quantum biology on its head: biological control of quantum optical systems. <i>Faraday Discussions</i> , 2019, 216, 57-71.	3.2	7
21	Dissecting the cytochrome <i>c</i> reaction centre interaction in bacterial photosynthesis using single molecule force spectroscopy. <i>Biochemical Journal</i> , 2019, 476, 2173-2190.	3.7	10
22	Metabolic regulation of photosynthetic membrane structure tunes electron transfer function. <i>Biochemical Journal</i> , 2018, 475, 1225-1233.	3.7	8
23	Dynamic thylakoid stacking regulates the balance between linear and cyclic photosynthetic electron transfer. <i>Nature Plants</i> , 2018, 4, 116-127.	9.3	98
24	Effect of ammonium and high light intensity on the accumulation of lipids in <i>Nannochloropsis oceanica</i> (CCAP 849/10) and <i>Phaeodactylum tricornutum</i> (CCAP 1055/1). <i>Biotechnology for Biofuels</i> , 2018, 11, 60.	6.2	28
25	Correlated fluorescence quenching and topographic mapping of Light-Harvesting Complex II within surface-assembled aggregates and lipid bilayers. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1075-1085.	1.0	24
26	Cryo-FIB Lift-out Sample Preparation Using a Novel Cryo-gripper Tool. <i>Microscopy and Microanalysis</i> , 2017, 23, 844-845.	0.4	2
27	A four state parametric model for the kinetics of the non-photochemical quenching in Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 854-864.	1.0	9
28	Photosynthesis. <i>Essays in Biochemistry</i> , 2016, 60, 255-273.	4.7	177
29	Atomic detail visualization of photosynthetic membranes with GPU-accelerated ray tracing. <i>Parallel Computing</i> , 2016, 55, 17-27.	2.1	37
30	An intact light harvesting complex I antenna system is required for complete state transitions in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2015, 1, 15176.	9.3	74
31	Visualizing the dynamic structure of the plant photosynthetic membrane. <i>Nature Plants</i> , 2015, 1, 15161.	9.3	72
32	Interference lithographic nanopatterning of plant and bacterial light-harvesting complexes on gold substrates. <i>Interface Focus</i> , 2015, 5, 20150005.	3.0	10
33	Nanodomains of Cytochrome <i>b</i> ₆ and Photosystem II Complexes in Spinach Grana Thylakoid Membranes. <i>Plant Cell</i> , 2014, 26, 3051-3061.	6.6	74
34	Rethinking the existence of a steady-state $\Delta\psi$ component of the proton motive force across plant thylakoid membranes. <i>Photosynthesis Research</i> , 2014, 119, 233-242.	2.9	59
35	Disentangling the low-energy states of the major light-harvesting complex of plants and their role in photoprotection. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1027-1038.	1.0	65
36	Reversible Switching between Nonquenched and Quenched States in Nanoscale Linear Arrays of Plant Light-Harvesting Antenna Complexes. <i>Langmuir</i> , 2014, 30, 8481-8490.	3.5	18

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37	The Specificity of Controlled Protein Disorder in the Photoprotection of Plants. <i>Biophysical Journal</i> , 2013, 105, 1018-1026.	0.5	29
38	Changes in the Energy Transfer Pathways within Photosystem II Antenna Induced by Xanthophyll Cycle Activity. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5841-5847.	2.6	10
39	Exciton annihilation as a probe of the light-harvesting antenna transition into the photoprotective mode. <i>Chemical Physics</i> , 2012, 404, 123-128.	1.9	24
40	Controlled Disorder in Plant Light-Harvesting Complex II Explains Its Photoprotective Role. <i>Biophysical Journal</i> , 2012, 102, 2669-2676.	0.5	97
41	Higher Plant Photosystem II Light-Harvesting Antenna, Not the Reaction Center, Determines the Excited-State Lifetime Both the Maximum and the Nonphotochemically Quenched. <i>Biophysical Journal</i> , 2012, 102, 2761-2771.	0.5	122
42	Light-harvesting antenna composition controls the macrostructure and dynamics of thylakoid membranes in Arabidopsis. <i>Plant Journal</i> , 2012, 69, 289-301.	5.7	154
43	The photoprotective molecular switch in the photosystem II antenna. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 167-181.	1.0	627
44	Elevated pH restores rapidly reversible photoprotective energy dissipation in Arabidopsis chloroplasts deficient in lutein and xanthophyll cycle activity. <i>Planta</i> , 2012, 235, 193-204.	3.2	43
45	Origin of Absorption Changes Associated with Photoprotective Energy Dissipation in the Absence of Zeaxanthin. <i>Journal of Biological Chemistry</i> , 2011, 286, 91-98.	3.4	25
46	Photoprotection in Plants Involves a Change in Lutein 1 Binding Domain in the Major Light-harvesting Complex of Photosystem II. <i>Journal of Biological Chemistry</i> , 2011, 286, 27247-27254.	3.4	62
47	Photoprotective Energy Dissipation Involves the Reorganization of Photosystem II Light-Harvesting Complexes in the Grana Membranes of Spinach Chloroplasts. <i>Plant Cell</i> , 2011, 23, 1468-1479.	6.6	305
48	Far-red light-regulated efficient energy transfer from phycobilisomes to photosystem I in the red microalga <i>Galdieria sulphuraria</i> and photosystems-related heterogeneity of phycobilisome population. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 227-235.	1.0	14
49	Natural light harvesting: principles and environmental trends. <i>Energy and Environmental Science</i> , 2011, 4, 1643.	30.8	44
50	Acclimation- and mutation-induced enhancement of PsbS levels affects the kinetics of non-photochemical quenching in Arabidopsis thaliana. <i>Planta</i> , 2011, 233, 1253-1264.	3.2	36
51	Changes in thylakoid membrane thickness associated with the reorganization of photosystem II light harvesting complexes during photoprotective energy dissipation. <i>Plant Signaling and Behavior</i> , 2011, 6, 1386-1390.	2.4	44
52	Restoration of Rapidly Reversible Photoprotective Energy Dissipation in the Absence of PsbS Protein by Enhanced pH. <i>Journal of Biological Chemistry</i> , 2011, 286, 19973-19981.	3.4	116
53	Arabidopsis plants lacking PsbS protein possess photoprotective energy dissipation. <i>Plant Journal</i> , 2010, 61, 283-289.	5.7	104
54	Effect of xanthophyll composition on the chlorophyll excited state lifetime in plant leaves and isolated LHCII. <i>Chemical Physics</i> , 2010, 373, 23-32.	1.9	32

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55	Visualizing the mobility and distribution of chlorophyll proteins in higher plant thylakoid membranes: effects of photoinhibition and protein phosphorylation. <i>Plant Journal</i> , 2010, 62, 948.	5.7	52
56	A Theoretical Investigation of the Photophysical Consequences of Major Plant Light-Harvesting Complex Aggregation within the Photosynthetic Membrane. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15244-15253.	2.6	17
57	Xanthophylls as modulators of membrane protein function. <i>Archives of Biochemistry and Biophysics</i> , 2010, 504, 78-85.	3.0	70
58	Visualising the mobility and distribution of chlorophyll-proteins in higher plant thylakoid membranes: effects of photoinhibition and protein phosphorylation. <i>Plant Journal</i> , 2010, 62, 948-59.	5.7	92
59	Photoprotective Energy Dissipation in Higher Plants Involves Alteration of the Excited State Energy of the Emitting Chlorophyll(s) in the Light Harvesting Antenna II (LHCII). <i>Journal of Biological Chemistry</i> , 2009, 284, 23592-23601.	3.4	84
60	The Photosystem II Light-Harvesting Protein Lhcb3 Affects the Macrostructure of Photosystem II and the Rate of State Transitions in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 3245-3256.	6.6	118
61	The Zeaxanthin-Independent and Zeaxanthin-Dependent qE Components of Nonphotochemical Quenching Involve Common Conformational Changes within the Photosystem II Antenna in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009, 149, 1061-1075.	4.8	129
62	Dynamics of higher plant photosystem cross-section associated with state transitions. <i>Photosynthesis Research</i> , 2009, 99, 173-183.	2.9	105
63	Photosynthetic acclimation: Does the dynamic structure and macroorganisation of photosystem II in higher plant grana membranes regulate light harvesting states?. <i>FEBS Journal</i> , 2008, 275, 1069-1079.	4.7	208
64	The xanthophyll cycle pool size controls the kinetics of nonphotochemical quenching in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2008, 582, 262-266.	2.8	94
65	The Lhcb protein and xanthophyll composition of the light harvesting antenna controls the pH-dependency of nonphotochemical quenching in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2008, 582, 1477-1482.	2.8	38
66	Induction of Efficient Energy Dissipation in the Isolated Light-harvesting Complex of Photosystem II in the Absence of Protein Aggregation. <i>Journal of Biological Chemistry</i> , 2008, 283, 29505-29512.	3.4	101
67	Elevated Zeaxanthin Bound to Oligomeric LHCII Enhances the Resistance of <i>Arabidopsis</i> to Photooxidative Stress by a Lipid-protective, Antioxidant Mechanism. <i>Journal of Biological Chemistry</i> , 2007, 282, 22605-22618.	3.4	162