

Peter Neil Horton

List of Publications by Year in descending order

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236
papers

22,412
citations

4146

87
h-index

9589

142
g-index

238
all docs

238
docs citations

238
times ranked

10432
citing authors

#	ARTICLE	IF	CITATIONS
1	REGULATION OF LIGHT HARVESTING IN GREEN PLANTS. Annual Review of Plant Biology, 1996, 47, 655-684.	14.3	1,574
2	Identification of a mechanism of photoprotective energy dissipation in higher plants. Nature, 2007, 450, 575-578.	27.8	808
3	Molecular basis of photoprotection and control of photosynthetic light-harvesting. Nature, 2005, 436, 134-137.	27.8	569
4	Control of the light-harvesting function of chloroplast membranes by aggregation of the LHCII chlorophyll-protein complex. FEBS Letters, 1991, 292, 1-4.	2.8	441
5	Acclimation of Arabidopsis thaliana to the light environment: the existence of separate low light and high light responses. Planta, 2001, 213, 794-801.	3.2	384
6	Molecular design of the photosystem II light-harvesting antenna: photosynthesis and photoprotection. Journal of Experimental Botany, 2004, 56, 365-373.	4.8	379
7	Overexpression of β -carotene hydroxylase enhances stress tolerance in Arabidopsis. Nature, 2002, 418, 203-206.	27.8	340
8	Agriculture and the new challenges for photosynthesis research. New Phytologist, 2009, 181, 532-552.	7.3	334
9	Linking drought-resistance mechanisms to drought avoidance in upland rice using a QTL approach: progress and new opportunities to integrate stomatal and mesophyll responses. Journal of Experimental Botany, 2002, 53, 989-1004.	4.8	316
10	Acclimation of photosynthesis to irradiance and spectral quality in British plant species: chlorophyll content, photosynthetic capacity and habitat preference. Plant, Cell and Environment, 1997, 20, 438-448.	5.7	308
11	Studies on the induction of chlorophyll fluorescence in isolated barley protoplasts. IV. Resolution of non-photochemical quenching. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 932, 107-115.	1.0	295
12	Control of the light harvesting function of chloroplast membranes: The LHCII-aggregation model for non-photochemical quenching. FEBS Letters, 2005, 579, 4201-4206.	2.8	286
13	Regulation of Light Harvesting in Green Plants (Indication by Nonphotochemical Quenching of) Tj ETQq1 1 0.784314.rgBT /Overlock 277	4.8	277
14	The dissipation of excess excitation energy in British plant species. Plant, Cell and Environment, 1993, 16, 673-679.	5.7	276
15	The mechanisms contributing to photosynthetic control of electron transport by carbon assimilation in leaves. Photosynthesis Research, 1990, 25, 83-100.	2.9	272
16	Resolution of components of non-photochemical chlorophyll fluorescence quenching in barley leaves. Photosynthesis Research, 1991, 27, 121-133.	2.9	264
17	Regulation of Photosystem II. Photosynthesis Research, 1992, 34, 375-385.	2.9	258
18	A Critical Role for the Var2 FtsH Homologue of Arabidopsis thaliana in the Photosystem II Repair Cycle in Vivo. Journal of Biological Chemistry, 2002, 277, 2006-2011.	3.4	253

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19	Absence of the Lhcb1 and Lhcb2 proteins of the light-harvesting complex of photosystem II - effects on photosynthesis, grana stacking and fitness. <i>Plant Journal</i> , 2003, 35, 350-361.	5.7	243
20	The Effects of Illumination on the Xanthophyll Composition of the Photosystem II Light-Harvesting Complexes of Spinach Thylakoid Membranes. <i>Plant Physiology</i> , 1994, 104, 227-234.	4.8	240
21	Determination of the Stoichiometry and Strength of Binding of Xanthophylls to the Photosystem II Light Harvesting Complexes. <i>Journal of Biological Chemistry</i> , 1999, 274, 10458-10465.	3.4	240
22	Induction of Nonphotochemical Energy Dissipation and Absorbance Changes in Leaves (Evidence for) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i> 102, 741-750.	4.8	226
23	Delayed leaf senescence in ethylene-deficient ACC-oxidase antisense tomato plants: molecular and physiological analysis. <i>Plant Journal</i> , 1995, 7, 483-490.	5.7	225
24	Prospects for crop improvement through the genetic manipulation of photosynthesis: morphological and biochemical aspects of light capture. <i>Journal of Experimental Botany</i> , 2000, 51, 475-485.	4.8	225
25	Lack of the Light-Harvesting Complex CP24 Affects the Structure and Function of the Grana Membranes of Higher Plant Chloroplasts. <i>Plant Cell</i> , 2006, 18, 3106-3120.	6.6	221
26	The Arabidopsis Cyclophilin Gene Family. <i>Plant Physiology</i> , 2004, 134, 1268-1282.	4.8	212
27	Photosynthetic acclimation: Does the dynamic structure and macro-organisation of photosystem II in higher plant grana membranes regulate light harvesting states?. <i>FEBS Journal</i> , 2008, 275, 1069-1079.	4.7	208
28	The super-excess energy dissipation in diatom algae: comparative analysis with higher plants. <i>Photosynthesis Research</i> , 2004, 82, 165-175.	2.9	204
29	Dynamics of Xanthophyll-Cycle Activity in Different Antenna Subcomplexes in the Photosynthetic Membranes of Higher Plants (The Relationship between Zeaxanthin Conversion and Nonphotochemical) <i>Tj ETQq1 4378431497BT /Ove</i>	4.8	197
30	Interactions between Senescence and Leaf Orientation Determine in Situ Patterns of Photosynthesis and Photoinhibition in Field-Grown Rice1. <i>Plant Physiology</i> , 1999, 119, 553-564.	4.8	185
31	The relationship between zeaxanthin, energy-dependent quenching of chlorophyll fluorescence, and trans-thylakoid pH gradient in isolated chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1057, 320-330.	1.0	177
32	Regulation of phosphorylation of chloroplast membrane polypeptides by the redox state of plastoquinone. <i>FEBS Letters</i> , 1981, 125, 193-196.	2.8	176
33	Allosteric regulation of the light-harvesting system of photosystem II. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000, 355, 1361-1370.	4.0	174
34	Activation of adenosine 5- α -triphosphate-induced quenching of chlorophyll fluorescence by reduced plastoquinone. <i>FEBS Letters</i> , 1980, 119, 141-144.	2.8	166
35	The PsbS Protein Controls the Organization of the Photosystem II Antenna in Higher Plant Thylakoid Membranes. <i>Journal of Biological Chemistry</i> , 2008, 283, 3972-3978.	3.4	163
36	Elevated Zeaxanthin Bound to Oligomeric LHClI Enhances the Resistance of Arabidopsis to Photooxidative Stress by a Lipid-protective, Antioxidant Mechanism. <i>Journal of Biological Chemistry</i> , 2007, 282, 22605-22618.	3.4	162

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37	The Xanthophyll Cycle Modulates the Kinetics of Nonphotochemical Energy Dissipation in Isolated Light-Harvesting Complexes, Intact Chloroplasts, and Leaves of Spinach. <i>Plant Physiology</i> , 1999, 119, 531-542.	4.8	156
38	Unusual carotenoid composition and a new type of xanthophyll cycle in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 1135-1139.	7.1	154
39	Antisense Inhibition of the Photosynthetic Antenna Proteins CP29 and CP26: Implications for the Mechanism of Protective Energy Dissipation. <i>Plant Cell</i> , 2001, 13, 1193-1204.	6.6	152
40	Plants lacking the main light-harvesting complex retain photosystem II macro-organization. <i>Nature</i> , 2003, 421, 648-652.	27.8	152
41	Mechanism of $\hat{p}H$ -dependent dissipation of absorbed excitation energy by photosynthetic membranes. I. Spectroscopic analysis of isolated light-harvesting complexes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992, 1102, 30-38.	1.0	151
42	Light-dependent quenching of chlorophyll fluorescence in pea chloroplasts induced by adenosine 5 \hat{a} €²-triphosphate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1981, 635, 53-62.	1.0	150
43	Invertase: understanding changes in the photosynthetic and carbohydrate metabolism of barley leaves infected with powdery mildew. <i>New Phytologist</i> , 1994, 126, 213-222.	7.3	142
44	Excitation-energy quenching in aggregates of the LHC II chlorophyll-protein complex: a time-resolved fluorescence study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1141, 23-28.	1.0	141
45	Acclimation of <i>Arabidopsis thaliana</i> to the light environment: Changes in composition of the photosynthetic apparatus. <i>Planta</i> , 1994, 195, 248.	3.2	140
46	Light-Induced Trimer to Monomer Transition in the Main Light-Harvesting Antenna Complex of Plants: \hat{A} Thermo-Optic Mechanism \hat{a} €. <i>Biochemistry</i> , 2002, 41, 15121-15129.	2.5	132
47	Granal stacking of thylakoid membranes in higher plant chloroplasts: the physicochemical forces at work and the functional consequences that ensue. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1081.	2.9	130
48	Aggregation of higher plant xanthophylls: Differences in absorption spectra and in the dependency on solvent polarity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993, 21, 229-234.	3.8	129
49	The Zeaxanthin-Independent and Zeaxanthin-Dependent qE Components of Nonphotochemical Quenching Involve Common Conformational Changes within the Photosystem II Antenna in <i>Arabidopsis</i> \hat{A} . <i>Plant Physiology</i> , 2009, 149, 1061-1075.	4.8	129
50	Dynamic Properties of the Minor Chlorophylla/bBinding Proteins of Photosystem II, an in Vitro Model for Photoprotective Energy Dissipation in the Photosynthetic Membrane of Green Plants \hat{a} €. <i>Biochemistry</i> , 1996, 35, 674-678.	2.5	125
51	Ultrafast Spectroscopy of Trimeric Light-Harvesting Complex II from Higher Plants. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1902-1909.	2.6	124
52	Control of chloroplast electron transport by phosphorylation of thylakoid proteins. <i>FEBS Letters</i> , 1983, 152, 47-52.	2.8	123
53	Studies on the induction of chlorophyll fluorescence in barley protoplasts. II. Resolution of fluorescence quenching by redox state and the transthylakoid pH gradient. <i>Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character</i> , 1984, 220, 371-382.	1.8	120
54	Acclimation of photosynthesis to high irradiance in rice: gene expression and interactions with leaf development. <i>Journal of Experimental Botany</i> , 2005, 56, 449-460.	4.8	120

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55	Higher Plant Light-Harvesting Complexes LHCIIa and LHCIIc are Bound by Dicyclohexylcarbodiimide During Inhibition of Energy Dissipation. <i>FEBS Journal</i> , 1994, 226, 1063-1069.	0.2	119
56	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
57	Identification of proton-active residues in a higher plant light-harvesting complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 14204-14209.	7.1	116
58	Carotenoid-Dependent Oligomerization of the Major Chlorophyll a/b Light Harvesting Complex of Photosystem II of Plants. <i>Biochemistry</i> , 1997, 36, 7855-7859.	2.5	116
59	A Mutant of <i>Arabidopsis</i> Lacking the Triose-Phosphate/Phosphate Translocator Reveals Metabolic Regulation of Starch Breakdown in the Light. <i>Plant Physiology</i> , 2004, 135, 891-906.	4.8	116
60	Characterization of two quenchers of chlorophyll fluorescence with different midpoint oxidation-reduction potentials in chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1979, 545, 188-201.	1.0	115
61	In vitro reconstitution of the activated zeaxanthin state associated with energy dissipation in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16331-16335.	7.1	114
62	Acclimation of <i>Arabidopsis thaliana</i> to the light environment: the relationship between photosynthetic function and chloroplast composition. <i>Planta</i> , 2004, 218, 793-802.	3.2	114
63	Differential adaptation of two varieties of common bean to abiotic stress. <i>Journal of Experimental Botany</i> , 2006, 57, 685-697.	4.8	114
64	Mechanism of pH-dependent dissipation of absorbed excitation energy by photosynthetic membranes. II. The relationship between LHCII aggregation in vitro and qE in isolated thylakoids. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992, 1102, 39-44.	1.0	113
65	Acclimation of Rice Photosynthesis to Irradiance under Field Conditions. <i>Plant Physiology</i> , 2002, 130, 1999-2010.	4.8	112
66	The Structure of Photosystem II in <i>Arabidopsis</i> : Localization of the CP26 and CP29 Antenna Complexes. <i>Biochemistry</i> , 2003, 42, 608-613.	2.5	108
67	Theoretical assessment of alternative mechanisms for non-photochemical quenching of PS II fluorescence in barley leaves. <i>Photosynthesis Research</i> , 1993, 36, 119-139.	2.9	107
68	Characterisation of LHC II in the aggregated state by linear and circular dichroism spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1997, 1321, 61-70.	1.0	106
69	Acclimation of <i>Arabidopsis thaliana</i> to the light environment: the role of photoreceptors. <i>Planta</i> , 1999, 209, 517-527.	3.2	105
70	Are there associations between grain-filling rate and photosynthesis in the flag leaves of field-grown rice?. <i>Journal of Experimental Botany</i> , 2002, 53, 2217-2224.	4.8	105
71	Configuration and Dynamics of Xanthophylls in Light-harvesting Antennae of Higher Plants. <i>Journal of Biological Chemistry</i> , 2001, 276, 24862-24870.	3.4	103
72	Optimization of light harvesting and photoprotection: molecular mechanisms and physiological consequences. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3455-3465.	4.0	103

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73	Heterogeneity in chloroplast photosystem II. <i>Photosynthesis Research</i> , 1986, 8, 193-207.	2.9	102
74	Modulation of chlorophyll fluorescence quenching in isolated light harvesting complex of Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1186, 123-127.	1.0	102
75	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
76	The PsbS protein controls the macro-organisation of photosystem II complexes in the grana membranes of higher plant chloroplasts. <i>FEBS Letters</i> , 2010, 584, 759-764.	2.8	101
77	Activation of Zeaxanthin Is an Obligatory Event in the Regulation of Photosynthetic Light Harvesting. <i>Journal of Biological Chemistry</i> , 2002, 277, 7785-7789.	3.4	99
78	Plant immunophilins: functional versatility beyond protein maturation. <i>New Phytologist</i> , 2005, 166, 753-769.	7.3	99
79	Regulation of Non-Photochemical Quenching of Chlorophyll Fluorescence in Plants. <i>Functional Plant Biology</i> , 1995, 22, 221.	2.1	97
80	Controlled Disorder in Plant Light-Harvesting Complex II Explains Its Photoprotective Role. <i>Biophysical Journal</i> , 2012, 102, 2669-2676.	0.5	97
81	Electron acceptors in isolated intact spinach chloroplasts act hierarchically to prevent over-reduction and competition for electrons. <i>Photosynthesis Research</i> , 2000, 64, 1-13.	2.9	95
82	The xanthophyll cycle pool size controls the kinetics of non-photochemical quenching in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2008, 582, 262-266.	2.8	94
83	An Investigation of the Sustained Component of Nonphotochemical Quenching of Chlorophyll Fluorescence in Isolated Chloroplasts and Leaves of Spinach. <i>Plant Physiology</i> , 1995, 108, 721-726.	4.8	93
84	CHLOROPLAST MEMBRANE PROTEIN PHOSPHORYLATION. <i>Photochemistry and Photobiology</i> , 1982, 36, 743-748.	2.5	92
85	Bryophyte physiological responses to, and recovery from, long-term nitrogen deposition and phosphorus fertilisation in acidic grassland. <i>New Phytologist</i> , 2008, 180, 864-874.	7.3	92
86	Long-wavelength chlorophyll species are associated with amplification of high-energy-state excitation quenching in higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1059, 355-360.	1.0	91
87	Insights into the molecular dynamics of plant light-harvesting proteins in vivo. <i>Trends in Plant Science</i> , 2004, 9, 385-390.	8.8	91
88	Enhancement of the pH-dependent dissipation of excitation energy in spinach chloroplasts by light-activation: correlation with the synthesis of zeaxanthin. <i>FEBS Letters</i> , 1989, 256, 85-90.	2.8	90
89	Trends in leaf photosynthesis in historical rice varieties developed in the Philippines since 1966. <i>Journal of Experimental Botany</i> , 2007, 58, 3429-3438.	4.8	87
90	The photoprotective protein PsbS exerts control over CO ₂ assimilation rate in fluctuating light in rice. <i>Plant Journal</i> , 2012, 71, 402-412.	5.7	87

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91	The xanthophyll cycle and carotenoid-mediated dissipation of excess excitation energy in photosynthesis. <i>Pure and Applied Chemistry</i> , 1997, 69, 2125-2130.	1.9	85
92	Contrasting patterns of photosynthetic acclimation to the light environment are dependent on the differential expression of the responses to altered irradiance and spectral quality. <i>Plant, Cell and Environment</i> , 1998, 21, 139-148.	5.7	85
93	Relationships between carotenoid composition and growth habit in British plant species. <i>Plant, Cell and Environment</i> , 1993, 16, 681-686.	5.7	84
94	Towards elucidation of dynamic structural changes of plant thylakoid architecture. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3515-3524.	4.0	84
95	Modulation of \hat{I} pH-dependent nonphotochemical quenching of chlorophyll fluorescence in spinach chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1183, 339-344.	1.0	82
96	Identification of Mutants of Arabidopsis Defective in Acclimation of Photosynthesis to the Light Environment. <i>Plant Physiology</i> , 2003, 131, 472-481.	4.8	80
97	PsbS enhances nonphotochemical fluorescence quenching in the absence of zeaxanthin. <i>FEBS Letters</i> , 2006, 580, 2053-2058.	2.8	80
98	pH dependent chlorophyll fluorescence quenching in spinach thylakoids from light treated or dark adapted leaves. <i>Photosynthesis Research</i> , 1992, 31, 11-19.	2.9	79
99	Short-term effects of nitrate, nitrite and ammonium assimilation on photosynthesis, carbon partitioning and protein phosphorylation in maize. <i>Planta</i> , 1994, 192, 211-220.	3.2	79
100	Transgenic potato plants with altered expression levels of chloroplast NADP-malate dehydrogenase: interactions between photosynthetic electron transport and malate metabolism in leaves and in isolated intact chloroplasts. <i>Planta</i> , 1998, 207, 105-114.	3.2	78
101	Phosphorylation of chloroplast membrane proteins partially protects against photoinhibition. <i>Planta</i> , 1985, 165, 37-42.	3.2	77
102	A study of the regulation and function of energy-dependent quenching in pea chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 934, 135-143.	1.0	76
103	The effect of high-energy-state excitation quenching on maximum and dark level chlorophyll fluorescence yield. <i>Photosynthesis Research</i> , 1990, 25, 199-211.	2.9	74
104	An intact light harvesting complex I antenna system is required for complete state transitions in Arabidopsis. <i>Nature Plants</i> , 2015, 1, 15176.	9.3	74
105	Decreased Content of Leaf Ferredoxin Changes Electron Distribution and Limits Photosynthesis in Transgenic Potato Plants. <i>Plant Physiology</i> , 2003, 133, 1768-1778.	4.8	71
106	The environmental impact of fertilizer embodied in a wheat-to-bread supply chain. <i>Nature Plants</i> , 2017, 3, 17012.	9.3	71
107	Ultrafast Evolution of the Excited States in the Chlorophyll a/b Complex CP29 from Green Plants Studied by Energy-Selective Pump-Probe Spectroscopy. <i>Biochemistry</i> , 1998, 37, 1143-1149.	2.5	69
108	The molecular mechanism of the control of excitation energy dissipation in chloroplast membranes Inhibition of \hat{I} pH-dependent quenching of chlorophyll fluorescence by dicyclohexylcarbodiimide. <i>FEBS Letters</i> , 1992, 309, 175-179.	2.8	68

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109	Resonance Raman Spectroscopy of the Photosystem II Light-Harvesting Complex of Green Plants: A Comparison of Trimeric and Aggregated States. <i>Biochemistry</i> , 1995, 34, 2333-2337.	2.5	67
110	Differential adaptation of two varieties of common bean to abiotic stress. <i>Journal of Experimental Botany</i> , 2006, 57, 699-709.	4.8	67
111	Characterisation of the effects of Antimycin A upon high energy state quenching of chlorophyll fluorescence (qE) in spinach and pea chloroplasts. <i>Photosynthesis Research</i> , 1987, 12, 119-127.	2.9	65
112	Spectroscopy of non-photochemical and photochemical quenching of chlorophyll fluorescence in leaves; evidence for a role of the light harvesting complex of Photosystem II in the regulation of energy dissipation. <i>Photosynthesis Research</i> , 1994, 40, 181-190.	2.9	65
113	Chlorophyll fluorescence quenching in isolated light harvesting complexes induced by zeaxanthin. <i>FEBS Letters</i> , 2000, 471, 71-74.	2.8	65
114	Quenching of chlorophyll fluorescence in the major light-harvesting complex of photosystem II: a systematic study of the effect of carotenoid structure.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 1492-1497.	7.1	64
115	Thermodynamic Investigation into the Mechanism of the Chlorophyll Fluorescence Quenching in Isolated Photosystem II Light-harvesting Complexes. <i>Journal of Biological Chemistry</i> , 2003, 278, 21845-21850.	3.4	64
116	The relationship between the activity of chloroplast Photosystem II and the midpoint oxidation-reduction potential of cytochrome b-559. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1977, 462, 86-101.	1.0	63
117	An agenda for integrated system-wide interdisciplinary agri-food research. <i>Food Security</i> , 2017, 9, 195-210.	5.3	63
118	Technologies to deliver food and climate security through agriculture. <i>Nature Plants</i> , 2021, 7, 250-255.	9.3	63
119	Molecular Configuration of Xanthophyll Cycle Carotenoids in Photosystem II Antenna Complexes. <i>Journal of Biological Chemistry</i> , 2002, 277, 42937-42942.	3.4	62
120	Acclimation of <i>Arabidopsis thaliana</i> to the light environment: regulation of chloroplast composition. <i>Planta</i> , 1995, 197, 475-81.	3.2	60
121	Chloroplast protein phosphorylation and chlorophyll fluorescence quenching. Activation by tetramethyl-p-hydroquinone, an electron donor to plastoquinone. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1981, 638, 290-295.	1.0	59
122	Relations between electron transport and carbon assimilation; simultaneous measurement of chlorophyll fluorescence, transthylakoid pH gradient and O ₂ evolution in isolated chloroplasts. <i>Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character</i> , 1983, 217, 405-416.	1.8	58
123	Molecular Adaptation of Photoprotection: Triplet States in Light-Harvesting Proteins. <i>Biophysical Journal</i> , 2011, 101, 934-942.	0.5	58
124	On the nature of the fluorescence decrease due to phosphorylation of chloroplast membrane proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1982, 680, 22-27.	1.0	57
125	A comparison between cation and protein phosphorylation effects on the fluorescence induction curve in chloroplasts treated with 3-(3,4-dichlorophenyl)-1,1-dimethylurea. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1983, 722, 214-218.	1.0	57
126	Increase in the level of thylakoid protein phosphorylation in maize mesophyll chloroplasts by decrease in the transthylakoid pH gradient. <i>FEBS Letters</i> , 1984, 176, 133-138.	2.8	54

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127	The Functional Significance of the Monomeric and Trimeric States of the Photosystem II Light Harvesting Complexes. <i>Biochemistry</i> , 2004, 43, 501-509.	2.5	54
128	Chloroplast Acclimation in Leaves of <i>Guzmania monostachia</i> in Response to High Light. <i>Plant Physiology</i> , 1999, 121, 89-96.	4.8	53
129	The mechanisms of changes in Photosystem II efficiency in spinach thylakoids. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990, 1016, 219-227.	1.0	51
130	Acclimation of <i>Arabidopsis thaliana</i> to the light environment: changes in photosynthetic function. <i>Planta</i> , 1995, 197, 306-12.	3.2	51
131	Spectroscopic characterization of the spinach Lhcb4 protein (CP29), a minor light-harvesting complex of photosystem II. <i>FEBS Journal</i> , 1999, 262, 817-823.	0.2	51
132	The accessibility of the chloroplast cytochromes $\text{P}680$ and b-559 to ferricyanide. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1974, 368, 348-360.	1.0	50
133	TEMPERATURE DEPENDENCE OF CHLOROPHYLL FLUORESCENCE FROM THE LIGHT HARVESTING COMPLEX II OF HIGHER PLANTS. <i>Photochemistry and Photobiology</i> , 1995, 61, 216-221.	2.5	50
134	Entropy-assisted stacking of thylakoid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1708, 187-195.	1.0	50
135	Studies on the induction of chlorophyll fluorescence in barley protoplasts. I. Factors affecting the observation of oscillations in the yield of chlorophyll fluorescence and the rate of oxygen evolution. <i>Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character</i> , 1984, 220, 361-370.	1.8	49
136	Phosphorylation of chloroplast thylakoids decreases the maximum capacity of photosystem-II electron transfer. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1984, 767, 563-567.	1.0	47
137	An integrated theoretical framework to enhance resource efficiency, sustainability and human health in agri-food systems. <i>Journal of Cleaner Production</i> , 2016, 120, 164-169.	9.3	46
138	Effects of season-dependent irradiance levels and nitrogen-deficiency on photosynthesis and photoinhibition in field-grown rice (<i>Oryza sativa</i>). <i>Physiologia Plantarum</i> , 2003, 117, 343-351.	5.2	45
139	Resistance of photosynthesis to high temperature in two bean varieties (<i>Phaseolus vulgaris</i> L.). <i>Photosynthesis Research</i> , 1999, 62, 197-203.	2.9	44
140	Plasticity in the Composition of the Light Harvesting Antenna of Higher Plants Preserves Structural Integrity and Biological Function. <i>Journal of Biological Chemistry</i> , 2006, 281, 14981-14990.	3.4	44
141	The influence of metabolic state on the level of phosphorylation of the light-harvesting chlorophyll-protein complex in chloroplasts isolated from maize mesophyll. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1983, 725, 155-161.	1.0	43
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