Roberto Bassi

List of Publications by Year
in descending order

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311 papers	22,512 citations	4120 87 h-index	13338 130 g-index
317 all docs	317 docs citations	317 times ranked	9394 citing authors

#	Article	IF	Citations
1	Architecture of a Charge-Transfer State Regulating Light Harvesting in a Plant Antenna Protein. Science, 2008, 320, 794-797.	6.0	492
2	Regulation of Photosynthetic Light Harvesting Involves Intrathylakoid Lumen pH Sensing by the PsbS Protein. Journal of Biological Chemistry, 2004, 279, 22866-22874.	1.6	483
3	Carotenoid-binding proteins of photosystem II. FEBS Journal, 1993, 212, 297-303.	0.2	410
4	Zeaxanthin Has Enhanced Antioxidant Capacity with Respect to All Other Xanthophylls in Arabidopsis Leaves and Functions Independent of Binding to PSII Antennae. Plant Physiology, 2007, 145, 1506-1520.	2.3	355
5	Contrasting Behavior of Higher Plant Photosystem I and II Antenna Systems during Acclimation. Journal of Biological Chemistry, 2007, 282, 8947-8958.	1.6	269
6	Light-induced Dissociation of an Antenna Hetero-oligomer Is Needed for Non-photochemical Quenching Induction. Journal of Biological Chemistry, 2009, 284, 15255-15266.	1.6	268
7	Quantum Coherence Enabled Determination of the Energy Landscape in Light-Harvesting Complex II. Journal of Physical Chemistry B, 2009, 113, 16291-16295.	1.2	266
8	Analysis of LhcSR3, a Protein Essential for Feedback De-Excitation in the Green Alga Chlamydomonas reinhardtii. PLoS Biology, 2011, 9, e1000577.	2.6	260
9	Lutein is needed for efficient chlorophyll triplet quenching in the major LHCII antenna complex of higher plants and effective photoprotection in vivo under strong light. BMC Plant Biology, 2006, 6, 32.	1.6	232
10	Mutational analysis of a higher plant antenna protein provides identification of chromophores bound into multiple sites. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10056-10061.	3.3	224
11	A Mechanism of Nonphotochemical Energy Dissipation, Independent from PsbS, Revealed by a Conformational Change in the Antenna Protein CP26. Plant Cell, 2005, 17, 1217-1232.	3.1	224
12	Carotenoid-binding Sites of the Major Light-harvesting Complex II of Higher Plants. Journal of Biological Chemistry, 1999, 274, 29613-29623.	1.6	215
13	The Major Antenna Complex of Photosystem II Has a Xanthophyll Binding Site Not Involved in Light Harvesting. Journal of Biological Chemistry, 2001, 276, 35924-35933.	1.6	215
14	Time-Resolved Fluorescence Analysis of the Photosystem II Antenna Proteins in Detergent Micelles and Liposomesâ€. Biochemistry, 2001, 40, 12552-12561.	1.2	210
15	Carotenoid-to-Chlorophyll Energy Transfer in Recombinant Major Light-Harvesting Complex (LHCII) of Higher Plants. I. Femtosecond Transient Absorption Measurements. Biophysical Journal, 2001, 80, 901-915.	0.2	207
16	Chlorophyll Binding to Monomeric Light-harvesting Complex. Journal of Biological Chemistry, 1999, 274, 33510-33521.	1.6	204
17	Structure, function and regulation of plant photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 335-352.	0.5	198
18	Chlorophyll-protein complexes of barley photosystem I. FEBS Journal, 1987, 163, 221-230.	0.2	196

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19	Zeaxanthin Radical Cation Formation in Minor Light-harvesting Complexes of Higher Plant Antenna. Journal of Biological Chemistry, 2008, 283, 3550-3558.	1.6	193
20	Lateral redistribution of cytochrome b6/f complexes along thylakoid membranes upon state transitions.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 8262-8266.	3.3	191
21	Multiple Types of Association of Photosystem II and Its Light-Harvesting Antenna in Partially Solubilized Photosystem II Membranes. Biochemistry, 1999, 38, 2233-2239.	1.2	191
22	Chromophore Organization in the Higher-Plant Photosystem II Antenna Protein CP26. Biochemistry, 2002, 41, 7334-7343.	1.2	186
23	Physcomitrella patens mutants affected on heat dissipation clarify the evolution of photoprotection mechanisms upon land colonization. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11128-11133.	3.3	185
24	Lutein Accumulation in the Absence of Zeaxanthin Restores Nonphotochemical Quenching in the Arabidopsis thaliana npq1 Mutant Â. Plant Cell, 2009, 21, 1798-1812.	3.1	183
25	Acclimation of Chlamydomonas reinhardtii to Different Growth Irradiances. Journal of Biological Chemistry, 2012, 287, 5833-5847.	1.6	179
26	Minor Antenna Proteins CP24 and CP26 Affect the Interactions between Photosystem II Subunits and the Electron Transport Rate in Grana Membranes of Arabidopsis Â. Plant Cell, 2008, 20, 1012-1028.	3.1	178
27	Photoprotection in the Antenna Complexes of Photosystem II. Journal of Biological Chemistry, 2008, 283, 6184-6192.	1.6	177
28	Pathways of Energy Flow in LHCII from Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 15352-15363.	1.2	175
29	A supramolecular light-harvesting complex from chloroplast photosystem-II membranes. FEBS Journal, 1992, 204, 317-326.	0.2	171
30	Excited State Equilibration in the Photosystem Iâ”Light-Harvesting I Complex:â€‰P700 Is Almost Isoenergetic with Its Antenna. Biochemistry, 1996, 35, 8572-8579.	1.2	169
31	Enhanced Photoprotection by Protein-Bound vs Free Xanthophyll Pools: A Comparative Analysis of Chlorophyll b and Xanthophyll Biosynthesis Mutants. Molecular Plant, 2010, 3, 576-593.	3.9	168
32	The Nature of a Chlorophyll Ligand in Lhca Proteins Determines the Far Red Fluorescence Emission Typical of Photosystem I. Journal of Biological Chemistry, 2003, 278, 49223-49229.	1.6	167
33	The Arabidopsis aba4-1 Mutant Reveals a Specific Function for Neoxanthin in Protection against Photooxidative Stress. Plant Cell, 2007, 19, 1048-1064.	3.1	166
34	Transcriptome Analysis of Cold Acclimation in Barley Albina and Xantha Mutants. Plant Physiology, 2006, 141, 257-270.	2.3	164
35	CHLOROPHYLL BINDING PROTEINS WITH ANTENNA FUNCTION IN HIGHER PLANTS and GREEN ALGAE. Photochemistry and Photobiology, 1990, 52, 1187-1206.	1.3	161
36	Chlorophyll-proteins of the photosystem II antenna system.. Journal of Biological Chemistry, 1987, 262, 13333-13341.	1.6	159

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37	Elucidation of the timescales and origins of quantum electronic coherence in LHCII. Nature Chemistry, 2012, 4, 389-395.	6.6	156
38	A nomenclature for the genes encoding the chlorophylla/b-binding proteins of higher plants. Plant Molecular Biology Reporter, 1992, 10, 242-253.	1.0	155
39	The Lhca antenna complexes of higher plants photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1556, 29-40.	0.5	152
40	Molecular mechanisms involved in plant photoprotection. Biochemical Society Transactions, 2018, 46, 467-482.	1.6	151
41	Functional architecture of the major light-harvesting complex from higher plants. Journal of Molecular Biology, 2001, 314, 1157-1166.	2.0	150
42	Lhc proteins and the regulation of photosynthetic light harvesting function by xanthophylls. , 2000, 64, 243-256.		149
43	Subunit stoichiometry of the chloroplast photosystem II antenna system and aggregation state of the component chlorophyll a/b binding proteins. Journal of Biological Chemistry, 1991, 266, 8136-8142.	1.6	149
44	Domestication of the green alga Chlorella sorokiniana: reduction of antenna size improves light-use efficiency in a photobioreactor. Biotechnology for Biofuels, 2014, 7, 157.	6.2	147
45	Analysis of the Chloroplast Protein Kinase Stt7 during State Transitions. PLoS Biology, 2009, 7, e1000045.	2.6	145
46	Evolution and functional properties of Photosystem II light harvesting complexes in eukaryotes. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 143-157.	0.5	144
47	A Structural Basis for the pH-Dependent Xanthophyll Cycle in Arabidopsis thaliana Â Â. Plant Cell, 2009, 21, 2036-2044.	3.1	142
48	Arabidopsis Mutants Deleted in the Light-Harvesting Protein Lhcb4 Have a Disrupted Photosystem II Macrostructure and Are Defective in Photoprotection. Plant Cell, 2011, 23, 2659-2679.	3.1	141
49	The Effect of Zeaxanthin as the Only Xanthophyll on the Structure and Function of the Photosynthetic Apparatus in Arabidopsis thaliana. Journal of Biological Chemistry, 2004, 279, 13878-13888.	1.6	140
50	Carotenoid S1 State in a Recombinant Light-Harvesting Complex of Photosystem II. Biochemistry, 2002, 41, 439-450.	1.2	139
51	Biochemical Properties of the PsbS Subunit of Photosystem II Either Purified from Chloroplast or Recombinant. Journal of Biological Chemistry, 2002, 277, 22750-22758.	1.6	137
52	A Look within LHCII:â€‰Differential Analysis of the Lhcb1â^'3 Complexes Building the Major Trimeric Antenna Complex of Higher-Plant Photosynthesis. Biochemistry, 2004, 43, 9467-9476.	1.2	134
53	Different Roles of Î±- and Î²-Branch Xanthophylls in Photosystem Assembly and Photoprotection. Journal of Biological Chemistry, 2007, 282, 35056-35068.	1.6	133
54	Femtosecond Transient Absorption Study of Carotenoid to Chlorophyll Energy Transfer in the Light-Harvesting Complex II of Photosystem II. Biochemistry, 1997, 36, 281-287.	1.2	132

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55	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, 12375-12380.	3.3	132
56	The Arabidopsis szl1 Mutant Reveals a Critical Role of Î²-Carotene in Photosystem I Photoprotection Â Â. Plant Physiology, 2012, 159, 1745-1758.	2.3	131
57	The light stress-induced protein ELIP2 is a regulator of chlorophyll synthesis in Arabidopsis thaliana. Plant Journal, 2007, 50, 795-809.	2.8	128
58	Reconstitution and Pigment-Binding Properties of Recombinant CP29. FEBS Journal, 1996, 238, 112-120.	0.2	127
59	Regulation of plant light harvesting by thermal dissipation of excess energy. Biochemical Society Transactions, 2010, 38, 651-660.	1.6	126
60	Interactions between the Photosystem II Subunit PsbS and Xanthophylls Studied in Vivo and in Vitro. Journal of Biological Chemistry, 2008, 283, 8434-8445.	1.6	125
61	In Silico and Biochemical Analysis of Physcomitrella patens Photosynthetic Antenna: Identification of Subunits which Evolved upon Land Adaptation. PLoS ONE, 2008, 3, e2033.	1.1	121
62	Two mechanisms for dissipation of excess light in monomeric and trimeric light-harvesting complexes. Nature Plants, 2017, 3, 17033.	4.7	121
63	Chlorophyll-proteins of the photosystem II antenna system. Journal of Biological Chemistry, 1987, 262, 13333-41.	1.6	121
64	Zeaxanthin Protects Plant Photosynthesis by Modulating Chlorophyll Triplet Yield in Specific Light-harvesting Antenna Subunits. Journal of Biological Chemistry, 2012, 287, 41820-41834.	1.6	118
65	The neoxanthin binding site of the major light harvesting complex (LHCII) from higher plants. FEBS Letters, 1999, 456, 1-6.	1.3	117
66	Identification of chlorophyll-a/b proteins as substrates of transglutaminase activity in isolated chloroplasts of Helianthus tuberosus L.. Planta, 1994, 193, 283-289.	1.6	116
67	The Physcomitrella patens gene atlas project: largeâ€scale <scp>RNA</scp>â€seq based expression data. Plant Journal, 2018, 95, 168-182.	2.8	115
68	Subunit stoichiometry of the chloroplast photosystem II antenna system and aggregation state of the component chlorophyll a/b binding proteins. Journal of Biological Chemistry, 1991, 266, 8136-42.	1.6	115
69	Interaction between avoidance of photon absorption, excess energy dissipation and zeaxanthin synthesis against photooxidative stress in <scp>A</scp>rabidopsis. Plant Journal, 2013, 76, 568-579.	2.8	114
70	The Interaction between Cold and Light Controls the Expression of the Cold-Regulated Barley Gene cor14b and the Accumulation of the Corresponding Protein1. Plant Physiology, 1999, 119, 671-680.	2.3	113
71	Xanthophyll Cycle Pigment Localization and Dynamics during Exposure to Low Temperatures and Light Stress inVinca major1. Plant Physiology, 1999, 120, 727-738.	2.3	109
72	The Chloroplast Gene ycf9 Encodes a Photosystem II (PSII) Core Subunit, PsbZ, That Participates in PSII Supramolecular Architecture. Plant Cell, 2001, 13, 1347-1368.	3.1	109

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73	Zeaxanthin Binds to Light-Harvesting Complex Stress-Related Protein to Enhance Nonphotochemical Quenching in Physcomitrella patens. Plant Cell, 2013, 25, 3519-3534.	3.1	109
74	Characterization of chlorophyll a/b proteins of photosystem I from Chlamydomonas reinhardtii.. Journal of Biological Chemistry, 1992, 267, 25714-25721.	1.6	107
75	A Post-translational Modification of the Photosystem II Subunit CP29 Protects Maize from Cold Stress. Journal of Biological Chemistry, 1995, 270, 8474-8481.	1.6	106
76	Multi-Level Light Capture Control in Plants and Green Algae. Trends in Plant Science, 2016, 21, 55-68.	4.3	103
77	Distribution of the chlorophyll spectral forms in the chlorophyll-protein complexes of photosystem II antenna. Biochemistry, 1993, 32, 3203-3210.	1.2	100
78	Three-dimensional structure of the higher-plant photosystem II reaction centre and evidence for its dimeric organization in vivo. FEBS Journal, 1994, 221, 307-315.	0.2	100
79	Identification of pH-sensing Sites in the Light Harvesting Complex Stress-related 3 Protein Essential for Triggering Non-photochemical Quenching in Chlamydomonas reinhardtii. Journal of Biological Chemistry, 2016, 291, 7334-7346.	1.6	100
80	Chlorophyll-proteins of two photosystem I preparations from maize. Carlsberg Research Communications, 1985, 50, 145-162.	1.7	97
81	THE RESOLUTION OF CHLOROPHYLL a/b BINDING PROTEINS BY A PREPARATIVE METHOD BASED ON FLAT BED ISOELECTRIC FOCUSING. Photochemistry and Photobiology, 1990, 51, 693-703.	1.3	97
82	Mechanistic aspects of the xanthophyll dynamics in higher plant thylakoids. Physiologia Plantarum, 2003, 119, 347-354.	2.6	96
83	Effect of Antenna-Depletion in Photosystem II on Excitation Energy Transfer in Arabidopsis thaliana. Biophysical Journal, 2010, 98, 922-931.	0.2	96
84	Dynamics of Chromophore Binding to Lhc Proteins in Vivo and in Vitro during Operation of the Xanthophyll Cycle. Journal of Biological Chemistry, 2002, 277, 36913-36920.	1.6	95
85	Novel aspects of chlorophyll a/b-binding proteins. Physiologia Plantarum, 1997, 100, 769-779.	2.6	94
86	The Occurrence of the psbS Gene Product in ChlamydomonasÂreinhardtii and in Other Photosynthetic Organisms and Its Correlation with Energy Quenching^{â€}. Photochemistry and Photobiology, 2008, 84, 1359-1370.	1.3	94
87	Sharing light between two photosystems: mechanism of state transitions. Current Opinion in Plant Biology, 2015, 25, 71-78.	3.5	94
88	Characterization of chlorophyll a/b proteins of photosystem I from Chlamydomonas reinhardtii. Journal of Biological Chemistry, 1992, 267, 25714-21.	1.6	94
89	Understanding the Changes in the Circular Dichroism of Light Harvesting Complex II upon Varying Its Pigment Composition and Organization. Biochemistry, 2007, 46, 4745-4754.	1.2	92
90	Recombinant Lhca2 and Lhca3 Subunits of the Photosystem I Antenna System. Biochemistry, 2003, 42, 4226-4234.	1.2	91

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91	Higher plants light harvesting proteins. Structure and function as revealed by mutation analysis of either protein or chromophore moieties. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1365, 207-214.	0.5	90
92	Dissipation of Light Energy Absorbed in Excess: The Molecular Mechanisms. Annual Review of Plant Biology, 2021, 72, 47-76.	8.6	90
93	The Soret absorption properties of carotenoids and chlorophylls in antenna complexes of higher plants. Photosynthesis Research, 2000, 64, 221-231.	1.6	88
94	Trap-Limited Charge Separation Kinetics in Higher Plant Photosystem I Complexes. Biophysical Journal, 2008, 94, 3601-3612.	0.2	88
95	Reactive oxygen species and transcript analysis upon excess light treatment in wild-type Arabidopsis thaliana vs a photosensitive mutant lacking zeaxanthin and lutein. BMC Plant Biology, 2011, 11, 62.	1.6	88
96	Antenna size reduction as a strategy to increase biomass productivity: a great potential not yet realized. Journal of Applied Phycology, 2015, 27, 1063-1077.	1.5	88
97	Photoprotection in higher plants: The putative quenching site is conserved in all outer light-harvesting complexes of Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1263-1267.	0.5	85
98	Regulation of the pigment optical density of an algal cell: Filling the gap between photosynthetic productivity in the laboratory and in mass culture. Journal of Biotechnology, 2012, 162, 115-123.	1.9	83
99	Non-photochemical quenching and xanthophyll cycle activities in six green algal species suggest mechanistic differences in the process of excess energy dissipation. Journal of Plant Physiology, 2015, 172, 92-103.	1.6	82
100	Nonphotochemical Quenching of Chlorophyll Fluorescence inChlamydomonas reinhardtii. Biochemistry, 2006, 45, 1490-1498.	1.2	81
101	LHCBM1 and LHCBM2/7 Polypeptides, Components of Major LHCII Complex, Have Distinct Functional Roles in Photosynthetic Antenna System of Chlamydomonas reinhardtii. Journal of Biological Chemistry, 2012, 287, 16276-16288.	1.6	81
102	Light-harvesting chlorophyll a/b proteins (LHCII) populations in phosphorylated membranes. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 936, 29-38.	0.5	80
103	Nearest-neighbor analysis of a Photosystem II complex from Marchantia polymorpha L. (liverwort), which contains reaction center and antenna proteins. FEBS Journal, 1998, 255, 196-205.	0.2	79
104	Single-molecule spectroscopy of LHCSR1 protein dynamics identifies two distinct states responsible for multi-timescale photosynthetic photoprotection. Nature Chemistry, 2017, 9, 772-778.	6.6	79
105	Heterogenous lipid distribution among chlorophyll-binding proteins of photosystem II in maize mesophyll chloroplasts. FEBS Journal, 1994, 221, 721-730.	0.2	77
106	Mutation Analysis of Lhca1 Antenna Complex. Journal of Biological Chemistry, 2002, 277, 36253-36261.	1.6	77
107	Analysis of Some Optical Properties of a Native and Reconstituted Photosystem II Antenna Complex, CP29:â€‰ Pigment Binding Sites Can Be Occupied by Chlorophyll a or Chlorophyll b and Determine Spectral Forms. Biochemistry, 1997, 36, 12984-12993.	1.2	76
108	Role of PSBS and LHCSR in Physcomitrella patens acclimation to high light and low temperature. Plant, Cell and Environment, 2011, 34, 922-932.	2.8	76

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109	Slowly reversible de-epoxidation of lutein-epoxide in deep shade leaves of a tropical tree legume may 'lock-in' lutein-based photoprotection during acclimation to strong light. Journal of Experimental Botany, 2004, 56, 461-468.	2.4	75
110	A single point mutation (E166Q) prevents dicyclohexylcarbodiimide binding to the photosystem II subunit CP29. FEBS Letters, 1997, 402, 151-156.	1.3	74
111	Observation of dissipative chlorophyll-to-carotenoid energy transfer in light-harvesting complex II in membrane nanodiscs. Nature Communications, 2020, 11, 1295.	5.8	74
112	A specific binding site for neoxanthin in the monomeric antenna proteins CP26 and CP29 of Photosystem II. FEBS Letters, 2007, 581, 4704-4710.	1.3	73
113	Regulation of photosystem I light harvesting by zeaxanthin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2431-8.	3.3	73
114	Lutein Can Act as a Switchable Charge Transfer Quencher in the CP26 Light-harvesting Complex. Journal of Biological Chemistry, 2009, 284, 2830-2835.	1.6	72
115	Potential and Challenges of Improving Photosynthesis in Algae. Plants, 2020, 9, 67.	1.6	72
116	Changes in the organization of stroma membranes induced by in vivo state 1-state 2 transition. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 935, 152-165.	0.5	69
117	Red Spectral Forms of Chlorophylls in Green Plant PSIâ˜† A Site-Selective and High-Pressure Spectroscopy Study+. Journal of Physical Chemistry B, 2003, 107, 9086-9093.	1.2	69
118	Photosynthetic Antenna Size in Higher Plants Is Controlled by the Plastoquinone Redox State at the Post-transcriptional Rather than Transcriptional Level. Journal of Biological Chemistry, 2007, 282, 29457-29469.	1.6	69
119	Chlorophyll Triplet Quenching and Photoprotection in the Higher Plant Monomeric Antenna Protein Lhcb5. Journal of Physical Chemistry B, 2013, 117, 11337-11348.	1.2	68
120	Identification and characterization of the major components of theOncorhynchus mykiss Egg Chorion. Molecular Reproduction and Development, 1991, 28, 85-93.	1.0	67
121	Gaussian Decomposition of Absorption and Linear Dichroism Spectra of Outer Antenna Complexes of Photosystem II. Biochemistry, 1994, 33, 8982-8990.	1.2	66
122	Conformational Changes Induced by Phosphorylation in the CP29 Subunit of Photosystem IIâ€‚â€¡. Biochemistry, 1996, 35, 11142-11148.	1.2	66
123	Time-resolved fluorescence analysis of the recombinant photosystem II antenna complex CP29. FEBS Journal, 2001, 268, 260-267.	0.2	66
124	Improper excess light energy dissipation in Arabidopsis results in a metabolic reprogramming. BMC Plant Biology, 2009, 9, 12.	1.6	66
125	Biogenesis of light harvesting proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 861-871.	0.5	66
126	LHCSR3 is a nonphotochemical quencher of both photosystems in Chlamydomonas reinhardtii. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4212-4217.	3.3	66

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127	The chlorophyll-a/b proteins of photosystem II in Chlamydomonas reinhardtii. Planta, 1991, 183, 423-33.	1.6	65
128	In VitroReconstitution of the Recombinant Photosystem II Light-harvesting Complex CP24 and Its Spectroscopic Characterization. Journal of Biological Chemistry, 1998, 273, 17154-17165.	1.6	65
129	Evidence for Two Spectroscopically Different Dimers of Light-Harvesting Complex I from Green Plantsâ€. Biochemistry, 2000, 39, 8625-8631.	1.2	65
130	Differential accumulation ofLhcbgene products in thylakoid membranes ofZea maysplants grown under contrasting light and temperature conditions. Proteomics, 2005, 5, 758-768.	1.3	65
131	The Low-Energy Forms of Photosystem I Light-Harvesting Complexes: Spectroscopic Properties and Pigment-Pigment Interaction Characteristics. Biophysical Journal, 2007, 93, 2418-2428.	0.2	65
132	Mutagenesis and phenotypic selection as a strategy toward domestication of Chlamydomonas reinhardtii strains for improved performance in photobioreactors. Photosynthesis Research, 2011, 108, 107-120.	1.6	65
133	The Chloroplast Gene ycf9 Encodes a Photosystem II (PSII) Core Subunit, PsbZ, That Participates in PSII Supramolecular Architecture. Plant Cell, 2001, 13, 1347-1368.	3.1	65
134	Elucidation of the Î²-carotene hydroxylation pathway inArabidopsis thaliana. FEBS Letters, 2006, 580, 4718-4722.	1.3	64
135	Light-Harvesting Complex Protein LHCBM9 Is Critical for Photosystem II Activity and Hydrogen Production in Chlamydomonas reinhardtii Â Â. Plant Cell, 2014, 26, 1598-1611.	3.1	64
136	Differences in chlorophyll-protein complexes and composition of polypeptides between thylakoids from bundle sheaths and mesophyll cells in maize. FEBS Journal, 1985, 146, 589-595.	0.2	63
137	Pigment-Pigment Interactions in Lhca4 Antenna Complex of Higher Plants Photosystem I. Journal of Biological Chemistry, 2005, 280, 20612-20619.	1.6	63
138	cor Gene Expression in Barley Mutants Affected in Chloroplast Development and Photosynthetic Electron Transport. Plant Physiology, 2003, 131, 793-802.	2.3	62
139	Spectroscopic elucidation of uncoupled transition energies in the major photosynthetic light-harvesting complex, LHCII. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13276-13281.	3.3	62
140	Coexistence of plant and algal energy dissipation mechanisms in the moss Physcomitrella patens. New Phytologist, 2012, 196, 763-773.	3.5	61
141	Immunological studies on chlorophyll-a/b proteins and their distribution in thylakoid membrane domains. Planta, 1990, 181, 275-286.	1.6	60
142	Short- and Long-Term Operation of the Lutein-Epoxide Cycle in Light-Harvesting Antenna Complexes. Plant Physiology, 2007, 144, 926-941.	2.3	59
143	Mutation Analysis of Violaxanthin De-epoxidase Identifies Substrate-binding Sites and Residues Involved in Catalysis. Journal of Biological Chemistry, 2010, 285, 23763-23770.	1.6	59
144	Suborganellar localisation and effect of light on Helianthus tuberosus chloroplast transglutaminases and their substrates. Planta, 2003, 217, 84-95.	1.6	58

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145	Carotenoid to chlorophyll energy transfer in light harvesting complex II from Arabidopsis thaliana probed by femtosecond fluorescence upconversion. Chemical Physics Letters, 2003, 379, 305-313.	1.2	58
146	A Zea mays 39-kDa thylakoid transglutaminase catalyses the modification by polyamines of light-harvesting complexï¿½II in a light-dependent way. Planta, 2004, 219, 754-64.	1.6	58
147	Biochemical and structural analyses of a higher plant photosystem II supercomplex of a photosystem I-less mutant of barley. FEBS Journal, 2006, 273, 4616-4630.	2.2	58
148	Functional analysis of Photosystem I light-harvesting complexes (Lhca) gene products of Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 212-221.	0.5	58
149	Immunological characterization of chlorophyll a/b-binding proteins of barley thylakoids. Planta, 1988, 173, 12-21.	1.6	57
150	Carotenoids: Localization and Function. , 1996, , 539-563.		57
151	LHC-like proteins involved in stress responses and biogenesis/repair of the photosynthetic apparatus. Biochemical Journal, 2019, 476, 581-593.	1.7	57
152	Energy Transfer among CP29 Chlorophylls: Calculated FÃ¶rster Rates and Experimental Transient Absorption at Room Temperature. Biophysical Journal, 2000, 79, 1706-1717.	0.2	55
153	The role of the light harvesting complex and photosystem II in thylakoid stacking in thechlorina-f2 barley mutant. Carlsberg Research Communications, 1985, 50, 347-367.	1.7	54
154	Occurrence of the lutein-epoxide cycle in mistletoes of the Loranthaceae and Viscaceae. Planta, 2003, 217, 868-879.	1.6	54
155	Energy Transfer Pathways in the Minor Antenna Complex CP29 of Photosystem II: A Femtosecond Study of Carotenoid to Chlorophyll Transfer on Mutant and WT Complexes. Biophysical Journal, 2003, 84, 2517-2532.	0.2	54
156	Post-transcriptional control of light-harvesting genes expression under light stress. Plant Molecular Biology, 2013, 82, 147-154.	2.0	54
157	Light-Harvesting Complex Stress-Related Proteins Catalyze Excess Energy Dissipation in Both Photosystems of Physcomitrella patens. Plant Cell, 2015, 27, 3213-3227.	3.1	54
158	Enhancement of Non-Photochemical Quenching in the Bryophyte Physcomitrella patens During Acclimation to Salt and Osmotic Stress. Plant and Cell Physiology, 2012, 53, 1815-1825.	1.5	53
159	Orientation of Chlorophyll Transition Moments in the Higher-Plant Light-Harvesting Complex CP29. Biochemistry, 1999, 38, 12974-12983.	1.2	52
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