

Roberto Bassi

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h-index

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ext. citations

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L-index

#	Paper	IF	Citations
303	Architecture of a charge-transfer state regulating light harvesting in a plant antenna protein. <i>Science</i> , 2008 , 320, 794-7	33.3	449
302	Regulation of photosynthetic light harvesting involves intrathylakoid lumen pH sensing by the PsbS protein. <i>Journal of Biological Chemistry</i> , 2004 , 279, 22866-74	5.4	427
301	Carotenoid-binding proteins of photosystem II. <i>FEBS Journal</i> , 1993 , 212, 297-303		357
300	Zeaxanthin has enhanced antioxidant capacity with respect to all other xanthophylls in Arabidopsis leaves and functions independent of binding to PSII antennae. <i>Plant Physiology</i> , 2007 , 145, 1506-20	6.6	301
299	Quantum coherence enabled determination of the energy landscape in light-harvesting complex II. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 16291-5	3.4	244
298	Light-induced dissociation of an antenna hetero-oligomer is needed for non-photochemical quenching induction. <i>Journal of Biological Chemistry</i> , 2009 , 284, 15255-66	5.4	242
297	Contrasting behavior of higher plant photosystem I and II antenna systems during acclimation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 8947-58	5.4	224
296	Mutational analysis of a higher plant antenna protein provides identification of chromophores bound into multiple sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 10056-61	11.5	208
295	Analysis of LhcSR3, a protein essential for feedback de-excitation in the green alga <i>Chlamydomonas reinhardtii</i> . <i>PLoS Biology</i> , 2011 , 9, e1000577	9.7	204
294	Carotenoid-binding sites of the major light-harvesting complex II of higher plants. <i>Journal of Biological Chemistry</i> , 1999 , 274, 29613-23	5.4	201
293	A mechanism of nonphotochemical energy dissipation, independent from PsbS, revealed by a conformational change in the antenna protein CP26. <i>Plant Cell</i> , 2005 , 17, 1217-32	11.6	195
292	Time-resolved fluorescence analysis of the photosystem II antenna proteins in detergent micelles and liposomes. <i>Biochemistry</i> , 2001 , 40, 12552-61	3.2	194
291	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. <i>BMC Plant Biology</i> , 2006 , 6, 32	5.3	193
290	Chlorophyll binding to monomeric light-harvesting complex. A mutation analysis of chromophore-binding residues. <i>Journal of Biological Chemistry</i> , 1999 , 274, 33510-21	5.4	188
289	The major antenna complex of photosystem II has a xanthophyll binding site not involved in light harvesting. <i>Journal of Biological Chemistry</i> , 2001 , 276, 35924-33	5.4	186
288	Chlorophyll-protein complexes of barley photosystem I. <i>FEBS Journal</i> , 1987 , 163, 221-30		186
287	Carotenoid-to-chlorophyll energy transfer in recombinant major light-harvesting complex (LHCII) of higher plants. I. Femtosecond transient absorption measurements. <i>Biophysical Journal</i> , 2001 , 80, 901-15	2.9	185

286	Zeaxanthin radical cation formation in minor light-harvesting complexes of higher plant antenna. <i>Journal of Biological Chemistry</i> , 2008 , 283, 3550-3558	5.4	184
285	Lateral redistribution of cytochrome b6/f complexes along thylakoid membranes upon state transitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 8262-6	11.5	176
284	Multiple types of association of photosystem II and its light-harvesting antenna in partially solubilized photosystem II membranes. <i>Biochemistry</i> , 1999 , 38, 2233-9	3.2	175
283	Chromophore organization in the higher-plant photosystem II antenna protein CP26. <i>Biochemistry</i> , 2002 , 41, 7334-43	3.2	165
282	Structure, function and regulation of plant photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007 , 1767, 335-52	4.6	161
281	Excited state equilibration in the photosystem I-light-harvesting I complex: P700 is almost isoenergetic with its antenna. <i>Biochemistry</i> , 1996 , 35, 8572-9	3.2	157
280	Physcomitrella patens mutants affected on heat dissipation clarify the evolution of photoprotection mechanisms upon land colonization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 11128-33	11.5	156
279	Lutein accumulation in the absence of zeaxanthin restores nonphotochemical quenching in the Arabidopsis thaliana npq1 mutant. <i>Plant Cell</i> , 2009 , 21, 1798-812	11.6	156
278	Photoprotection in the antenna complexes of photosystem II: role of individual xanthophylls in chlorophyll triplet quenching. <i>Journal of Biological Chemistry</i> , 2008 , 283, 6184-92	5.4	156
277	Pathways of energy flow in LHClI from two-dimensional electronic spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 15352-63	3.4	152
276	CHLOROPHYLL BINDING PROTEINS WITH ANTENNA FUNCTION IN HIGHER PLANTS and GREEN ALGAE. <i>Photochemistry and Photobiology</i> , 1990 , 52, 1187-1206	3.6	152
275	A supramolecular light-harvesting complex from chloroplast photosystem-II membranes. <i>FEBS Journal</i> , 1992 , 204, 317-26		150
274	Acclimation of Chlamydomonas reinhardtii to different growth irradiances. <i>Journal of Biological Chemistry</i> , 2012 , 287, 5833-47	5.4	149
273	Minor antenna proteins CP24 and CP26 affect the interactions between photosystem II subunits and the electron transport rate in grana membranes of Arabidopsis. <i>Plant Cell</i> , 2008 , 20, 1012-28	11.6	149
272	The Arabidopsis aba4-1 mutant reveals a specific function for neoxanthin in protection against photooxidative stress. <i>Plant Cell</i> , 2007 , 19, 1048-64	11.6	141
271	Elucidation of the timescales and origins of quantum electronic coherence in LHClI. <i>Nature Chemistry</i> , 2012 , 4, 389-95	17.6	140
270	The nature of a chlorophyll ligand in Lhca proteins determines the far red fluorescence emission typical of photosystem I. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49223-9	5.4	138
269	A nomenclature for the genes encoding the chlorophylla/b-binding proteins of higher plants. <i>Plant Molecular Biology Reporter</i> , 1992 , 10, 242-253	1.7	138

268	Enhanced photoprotection by protein-bound vs free xanthophyll pools: a comparative analysis of chlorophyll b and xanthophyll biosynthesis mutants. <i>Molecular Plant</i> , 2010 , 3, 576-93	14.4	136
267	The Lhca antenna complexes of higher plants photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002 , 1556, 29-40	4.6	136
266	Lhc proteins and the regulation of photosynthetic light harvesting function by xanthophylls. <i>Photosynthesis Research</i> , 2000 , 64, 243-56	3.7	135
265	Functional architecture of the major light-harvesting complex from higher plants. <i>Journal of Molecular Biology</i> , 2001 , 314, 1157-66	6.5	133
264	Femtosecond transient absorption study of carotenoid to chlorophyll energy transfer in the light-harvesting complex II of photosystem II. <i>Biochemistry</i> , 1997 , 36, 281-7	3.2	127
263	Carotenoid S(1) state in a recombinant light-harvesting complex of Photosystem II. <i>Biochemistry</i> , 2002 , 41, 439-50	3.2	127
262	Analysis of the chloroplast protein kinase Stt7 during state transitions. <i>PLoS Biology</i> , 2009 , 7, e45	9.7	126
261	Chlorophyll-proteins of the photosystem II antenna system.. <i>Journal of Biological Chemistry</i> , 1987 , 262, 13333-13341	5.4	126
260	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, 12375-80	11.5	123
259	The effect of zeaxanthin as the only xanthophyll on the structure and function of the photosynthetic apparatus in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2004 , 279, 13878-88	5.4	123
258	Biochemical properties of the PsbS subunit of photosystem II either purified from chloroplast or recombinant. <i>Journal of Biological Chemistry</i> , 2002 , 277, 22750-8	5.4	123
257	Transcriptome analysis of cold acclimation in barley albina and xantha mutants. <i>Plant Physiology</i> , 2006 , 141, 257-70	6.6	121
256	Reconstitution and pigment-binding properties of recombinant CP29. <i>FEBS Journal</i> , 1996 , 238, 112-20		121
255	Chlorophyll-proteins of the photosystem II antenna system. <i>Journal of Biological Chemistry</i> , 1987 , 262, 13333-41	5.4	121
254	Evolution and functional properties of photosystem II light harvesting complexes in eukaryotes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 143-57	4.6	120
253	A structural basis for the pH-dependent xanthophyll cycle in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009 , 21, 2036-44	11.6	119
252	Subunit stoichiometry of the chloroplast photosystem II antenna system and aggregation state of the component chlorophyll a/b binding proteins. <i>Journal of Biological Chemistry</i> , 1991 , 266, 8136-8142	5.4	119
251	Different roles of alpha- and beta-branch xanthophylls in photosystem assembly and photoprotection. <i>Journal of Biological Chemistry</i> , 2007 , 282, 35056-68	5.4	113

250	Regulation of plant light harvesting by thermal dissipation of excess energy. <i>Biochemical Society Transactions</i> , 2010 , 38, 651-60	5.1	111
249	A look within LHCII: differential analysis of the Lhcb1-3 complexes building the major trimeric antenna complex of higher-plant photosynthesis. <i>Biochemistry</i> , 2004 , 43, 9467-76	3.2	111
248	The neoxanthin binding site of the major light harvesting complex (LHCII) from higher plants. <i>FEBS Letters</i> , 1999 , 456, 1-6	3.8	110
247	Interactions between the photosystem II subunit PsbS and xanthophylls studied in vivo and in vitro. <i>Journal of Biological Chemistry</i> , 2008 , 283, 8434-45	5.4	108
246	The light stress-induced protein ELIP2 is a regulator of chlorophyll synthesis in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007 , 50, 795-809	6.9	108
245	Subunit stoichiometry of the chloroplast photosystem II antenna system and aggregation state of the component chlorophyll a/b binding proteins. <i>Journal of Biological Chemistry</i> , 1991 , 266, 8136-42	5.4	108
244	The interaction between cold and light controls the expression of the cold-regulated barley gene <i>cor14b</i> and the accumulation of the corresponding protein. <i>Plant Physiology</i> , 1999 , 119, 671-80	6.6	107
243	<i>Arabidopsis</i> mutants deleted in the light-harvesting protein Lhcb4 have a disrupted photosystem II macrostructure and are defective in photoprotection. <i>Plant Cell</i> , 2011 , 23, 2659-79	11.6	105
242	The chloroplast gene <i>ycf9</i> encodes a photosystem II (PSII) core subunit, PsbZ, that participates in PSII supramolecular architecture. <i>Plant Cell</i> , 2001 , 13, 1347-67	11.6	104
241	Identification of chlorophyll-a/b proteins as substrates of transglutaminase activity in isolated chloroplasts of <i>Helianthus tuberosus</i> L.. <i>Planta</i> , 1994 , 193, 283-289	4.7	104
240	Xanthophyll cycle pigment localization and dynamics during exposure to low temperatures and light stress in <i>vinca major</i> . <i>Plant Physiology</i> , 1999 , 120, 727-38	6.6	102
239	In silico and biochemical analysis of <i>Physcomitrella patens</i> photosynthetic antenna: identification of subunits which evolved upon land adaptation. <i>PLoS ONE</i> , 2008 , 3, e2033	3.7	101
238	A post-translational modification of the photosystem II subunit CP29 protects maize from cold stress. <i>Journal of Biological Chemistry</i> , 1995 , 270, 8474-81	5.4	100
237	Domestication of the green alga <i>Chlorella sorokiniana</i> : reduction of antenna size improves light-use efficiency in a photobioreactor. <i>Biotechnology for Biofuels</i> , 2014 , 7, 157	7.8	98
236	Distribution of the chlorophyll spectral forms in the chlorophyll-protein complexes of photosystem II antenna. <i>Biochemistry</i> , 1993 , 32, 3203-10	3.2	97
235	Interaction between avoidance of photon absorption, excess energy dissipation and zeaxanthin synthesis against photooxidative stress in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013 , 76, 568-79	6.9	96
234	Two mechanisms for dissipation of excess light in monomeric and trimeric light-harvesting complexes. <i>Nature Plants</i> , 2017 , 3, 17033	11.5	95
233	The <i>Arabidopsis</i> <i>szl1</i> mutant reveals a critical role of β -carotene in photosystem I photoprotection. <i>Plant Physiology</i> , 2012 , 159, 1745-58	6.6	94

232	Zeaxanthin binds to light-harvesting complex stress-related protein to enhance nonphotochemical quenching in <i>Physcomitrella patens</i> . <i>Plant Cell</i> , 2013 , 25, 3519-34	11.6	93
231	Zeaxanthin protects plant photosynthesis by modulating chlorophyll triplet yield in specific light-harvesting antenna subunits. <i>Journal of Biological Chemistry</i> , 2012 , 287, 41820-34	5.4	92
230	Effect of antenna-depletion in Photosystem II on excitation energy transfer in <i>Arabidopsis thaliana</i> . <i>Biophysical Journal</i> , 2010 , 98, 922-31	2.9	92
229	Novel aspects of chlorophyll a/b-binding proteins. <i>Physiologia Plantarum</i> , 1997 , 100, 769-779	4.6	90
228	Three-dimensional structure of the higher-plant photosystem II reaction centre and evidence for its dimeric organization in vivo. <i>FEBS Journal</i> , 1994 , 221, 307-15		88
227	Chlorophyll-proteins of two photosystem I preparations from maize. <i>Carlsberg Research Communications</i> , 1985 , 50, 145-162		87
226	Higher plants light harvesting proteins. Structure and function as revealed by mutation analysis of either protein or chromophore moieties. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998 , 1365, 207-14	4.6	85
225	Dynamics of chromophore binding to Lhc proteins in vivo and in vitro during operation of the xanthophyll cycle. <i>Journal of Biological Chemistry</i> , 2002 , 277, 36913-20	5.4	85
224	Characterization of chlorophyll a/b proteins of photosystem I from <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 1992 , 267, 25714-21	5.4	85
223	The occurrence of the psbS gene product in <i>Chlamydomonas reinhardtii</i> and in other photosynthetic organisms and its correlation with energy quenching. <i>Photochemistry and Photobiology</i> , 2008 , 84, 1359-70	3.6	84
222	Mechanistic aspects of the xanthophyll dynamics in higher plant thylakoids. <i>Physiologia Plantarum</i> , 2003 , 119, 347-354	4.6	84
221	THE RESOLUTION OF CHLOROPHYLL a/b BINDING PROTEINS BY A PREPARATIVE METHOD BASED ON FLAT BED ISOELECTRIC FOCUSING. <i>Photochemistry and Photobiology</i> , 1990 , 51, 693-703	3.6	84
220	Molecular mechanisms involved in plant photoprotection. <i>Biochemical Society Transactions</i> , 2018 , 46, 467-482	5.1	83
219	Characterization of chlorophyll a/b proteins of photosystem I from <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 1992 , 267, 25714-25721	5.4	83
218	Understanding the changes in the circular dichroism of light harvesting complex II upon varying its pigment composition and organization. <i>Biochemistry</i> , 2007 , 46, 4745-54	3.2	82
217	Recombinant Lhca2 and Lhca3 subunits of the photosystem I antenna system. <i>Biochemistry</i> , 2003 , 42, 4226-34	3.2	82
216	Reactive oxygen species and transcript analysis upon excess light treatment in wild-type <i>Arabidopsis thaliana</i> vs a photosensitive mutant lacking zeaxanthin and lutein. <i>BMC Plant Biology</i> , 2011 , 11, 62	5.3	81
215	The Soret absorption properties of carotenoids and chlorophylls in antenna complexes of higher plants. <i>Photosynthesis Research</i> , 2000 , 64, 221-31	3.7	79

214	Trap-limited charge separation kinetics in higher plant photosystem I complexes. <i>Biophysical Journal</i> , 2008 , 94, 3601-12	2.9	78
213	Photoprotection in higher plants: the putative quenching site is conserved in all outer light-harvesting complexes of Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 1263-7	4.6	76
212	Nearest-neighbor analysis of a photosystem II complex from <i>Marchantia polymorpha</i> L. (liverwort), which contains reaction center and antenna proteins. <i>FEBS Journal</i> , 1998 , 255, 196-205		75
211	Multi-Level Light Capture Control in Plants and Green Algae. <i>Trends in Plant Science</i> , 2016 , 21, 55-68	13.1	74
210	Analysis of some optical properties of a native and reconstituted photosystem II antenna complex, CP29: pigment binding sites can be occupied by chlorophyll a or chlorophyll b and determine spectral forms. <i>Biochemistry</i> , 1997 , 36, 12984-93	3.2	74
209	Nonphotochemical quenching of chlorophyll fluorescence in <i>Chlamydomonas reinhardtii</i> . <i>Biochemistry</i> , 2006 , 45, 1490-8	3.2	74
208	Identification of pH-sensing Sites in the Light Harvesting Complex Stress-related 3 Protein Essential for Triggering Non-photochemical Quenching in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2016 , 291, 7334-46	5.4	71
207	A single point mutation (E166Q) prevents dicyclohexylcarbodiimide binding to the photosystem II subunit CP29. <i>FEBS Letters</i> , 1997 , 402, 151-6	3.8	71
206	Sharing light between two photosystems: mechanism of state transitions. <i>Current Opinion in Plant Biology</i> , 2015 , 25, 71-8	9.9	70
205	LHCBM1 and LHCBM2/7 polypeptides, components of major LHClI complex, have distinct functional roles in photosynthetic antenna system of <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2012 , 287, 16276-88	5.4	70
204	Mutation analysis of Lhca1 antenna complex. Low energy absorption forms originate from pigment-pigment interactions. <i>Journal of Biological Chemistry</i> , 2002 , 277, 36253-61	5.4	70
203	Heterogenous lipid distribution among chlorophyll-binding proteins of photosystem II in maize mesophyll chloroplasts. <i>FEBS Journal</i> , 1994 , 221, 721-30		70
202	A specific binding site for neoxanthin in the monomeric antenna proteins CP26 and CP29 of Photosystem II. <i>FEBS Letters</i> , 2007 , 581, 4704-10	3.8	69
201	Light-harvesting chlorophyll a/b proteins (LHClI) populations in phosphorylated membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988 , 936, 29-38	4.6	69
200	Role of PSBS and LHCSR in <i>Physcomitrella patens</i> acclimation to high light and low temperature. <i>Plant, Cell and Environment</i> , 2011 , 34, 922-932	8.4	66
199	Antenna size reduction as a strategy to increase biomass productivity: a great potential not yet realized. <i>Journal of Applied Phycology</i> , 2015 , 27, 1063-1077	3.2	65
198	Lutein can act as a switchable charge transfer quencher in the CP26 light-harvesting complex. <i>Journal of Biological Chemistry</i> , 2009 , 284, 2830-2835	5.4	65
197	Evidence for two spectroscopically different dimers of light-harvesting complex I from green plants. <i>Biochemistry</i> , 2000 , 39, 8625-31	3.2	65

196	Red Spectral Forms of Chlorophylls in Green Plant PSII Site-Selective and High-Pressure Spectroscopy Study+. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9086-9093	3.4	63
195	Improper excess light energy dissipation in Arabidopsis results in a metabolic reprogramming. <i>BMC Plant Biology</i> , 2009 , 9, 12	5.3	62
194	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. <i>Journal of Experimental Botany</i> , 2005 , 56, 461-8	7	62
193	In vitro reconstitution of the recombinant photosystem II light-harvesting complex CP24 and its spectroscopic characterization. <i>Journal of Biological Chemistry</i> , 1998 , 273, 17154-65	5.4	62
192	Gaussian decomposition of absorption and linear dichroism spectra of outer antenna complexes of photosystem II. <i>Biochemistry</i> , 1994 , 33, 8982-90	3.2	62
191	Identification and characterization of the major components of the <i>Oncorhynchus mykiss</i> egg chorion. <i>Molecular Reproduction and Development</i> , 1991 , 28, 85-93	2.6	62
190	Non-photochemical quenching and xanthophyll cycle activities in six green algal species suggest mechanistic differences in the process of excess energy dissipation. <i>Journal of Plant Physiology</i> , 2015 , 172, 92-103	3.6	61
189	Conformational changes induced by phosphorylation in the CP29 subunit of photosystem II. <i>Biochemistry</i> , 1996 , 35, 11142-8	3.2	61
188	Changes in the organization of stroma membranes induced by in vivo state 1-state 2 transition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988 , 935, 152-165	4.6	61
187	Regulation of the pigment optical density of an algal cell: filling the gap between photosynthetic productivity in the laboratory and in mass culture. <i>Journal of Biotechnology</i> , 2012 , 162, 115-23	3.7	60
186	cor Gene expression in barley mutants affected in chloroplast development and photosynthetic electron transport. <i>Plant Physiology</i> , 2003 , 131, 793-802	6.6	60
185	Regulation of photosystem I light harvesting by zeaxanthin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2431-8	11.5	59
184	Spectroscopic elucidation of uncoupled transition energies in the major photosynthetic light-harvesting complex, LHCII. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13276-81	11.5	59
183	Photosynthetic antenna size in higher plants is controlled by the plastoquinone redox state at the post-transcriptional rather than transcriptional level. <i>Journal of Biological Chemistry</i> , 2007 , 282, 29457-65	5.4	58
182	Elucidation of the beta-carotene hydroxylation pathway in Arabidopsis thaliana. <i>FEBS Letters</i> , 2006 , 580, 4718-22	3.8	58
181	The chlorophyll-a/b proteins of photosystem II in <i>Chlamydomonas reinhardtii</i> : Isolation, characterization and immunological cross-reactivity to higher-plant polypeptides. <i>Planta</i> , 1991 , 183, 423-33	4.7	58
180	Differences in chlorophyll-protein complexes and composition of polypeptides between thylakoids from bundle sheaths and mesophyll cells in maize. <i>FEBS Journal</i> , 1985 , 146, 589-95		58
179	Single-molecule spectroscopy of LHCSR1 protein dynamics identifies two distinct states responsible for multi-timescale photosynthetic photoprotection. <i>Nature Chemistry</i> , 2017 , 9, 772-778	17.6	57

178	Increased biomass productivity in green algae by tuning non-photochemical quenching. <i>Scientific Reports</i> , 2016 , 6, 21339	4.9	56
177	Pigment-pigment interactions in Lhca4 antenna complex of higher plants photosystem I. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20612-9	5.4	56
176	Time-resolved fluorescence analysis of the recombinant photosystem II antenna complex CP29. Effects of zeaxanthin, pH and phosphorylation. <i>FEBS Journal</i> , 2001 , 268, 260-7		56
175	Chlorophyll triplet quenching and photoprotection in the higher plant monomeric antenna protein Lhcb5. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 11337-48	3.4	55
174	Mutagenesis and phenotypic selection as a strategy toward domestication of <i>Chlamydomonas reinhardtii</i> strains for improved performance in photobioreactors. <i>Photosynthesis Research</i> , 2011 , 108, 107-20	3.7	55
173	The low-energy forms of photosystem I light-harvesting complexes: spectroscopic properties and pigment-pigment interaction characteristics. <i>Biophysical Journal</i> , 2007 , 93, 2418-28	2.9	55
172	Immunological characterization of chlorophyll a/b-binding proteins of barley thylakoids. <i>Planta</i> , 1988 , 173, 12-21	4.7	55
171	Carotenoid to chlorophyll energy transfer in light harvesting complex II from <i>Arabidopsis thaliana</i> probed by femtosecond fluorescence upconversion. <i>Chemical Physics Letters</i> , 2003 , 379, 305-313	2.5	53
170	Immunological studies on chlorophyll-a/b proteins and their distribution in thylakoid membrane domains. <i>Planta</i> , 1990 , 181, 275-86	4.7	53
169	Short- and long-term operation of the lutein-epoxide cycle in light-harvesting antenna complexes. <i>Plant Physiology</i> , 2007 , 144, 926-41	6.6	52
168	Biogenesis of light harvesting proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 861-71	4.6	51
167	Light-Harvesting Complex Protein LHCBM9 Is Critical for Photosystem II Activity and Hydrogen Production in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014 , 26, 1598-1611	11.6	51
166	A Zea mays 39-kDa thylakoid transglutaminase catalyses the modification by polyamines of light-harvesting complex II in a light-dependent way. <i>Planta</i> , 2004 , 219, 754-64	4.7	51
165	Suborganellar localisation and effect of light on <i>Helianthus tuberosus</i> chloroplast transglutaminases and their substrates. <i>Planta</i> , 2003 , 217, 84-95	4.7	51
164	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. <i>Biophysical Journal</i> , 2003 , 84, 2517-32	2.9	51
163	Differential accumulation of Lhcb gene products in thylakoid membranes of <i>Zea mays</i> plants grown under contrasting light and temperature conditions. <i>Proteomics</i> , 2005 , 5, 758-68	4.8	51
162	Energy transfer among CP29 chlorophylls: calculated Förster rates and experimental transient absorption at room temperature. <i>Biophysical Journal</i> , 2000 , 79, 1706-17	2.9	51
161	Biochemical and structural analyses of a higher plant photosystem II supercomplex of a photosystem I-less mutant of barley. Consequences of a chronic over-reduction of the plastoquinone pool. <i>FEBS Journal</i> , 2006 , 273, 4616-30	5.7	50

160	The role of the light harvesting complex and photosystem II in thylakoid stacking in the chlorina-f2 barley mutant. <i>Carlsberg Research Communications</i> , 1985 , 50, 347-367		50
159	Two-dimensional crystals of the photosystem II reaction center complex from higher plants. <i>European Journal of Cell Biology</i> , 1989 , 50, 84-93	6.1	50
158	Orientation of chlorophyll transition moments in the higher-plant light-harvesting complex CP29. <i>Biochemistry</i> , 1999 , 38, 12974-83	3.2	49
157	Functional analysis of Photosystem I light-harvesting complexes (Lhca) gene products of <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 212-21	4.6	48
156	Cold-Resistant and Cold-Sensitive Maize Lines Differ in the Phosphorylation of the Photosystem II Subunit, CP29. <i>Plant Physiology</i> , 1997 , 115, 171-180	6.6	48
155	Occurrence of the lutein-epoxide cycle in mistletoes of the Loranthaceae and Viscaceae. <i>Planta</i> , 2003 , 217, 868-79	4.7	48
154	Absorption spectra of chlorophyll a and b in Lhcb protein environment. <i>Photosynthesis Research</i> , 2000 , 64, 233-42	3.7	47
153	Coexistence of plant and algal energy dissipation mechanisms in the moss <i>Physcomitrella patens</i> . <i>New Phytologist</i> , 2012 , 196, 763-773	9.8	46
152	LHCSR3 is a nonphotochemical quencher of both photosystems in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4212-4217	11.5	46
151	Light-Harvesting Complex Stress-Related Proteins Catalyze Excess Energy Dissipation in Both Photosystems of <i>Physcomitrella patens</i> . <i>Plant Cell</i> , 2015 , 27, 3213-27	11.6	45
150	Quenching of chlorophyll triplet states by carotenoids in reconstituted Lhca4 subunit of peripheral light-harvesting complex of photosystem I. <i>Biochemistry</i> , 2005 , 44, 8337-46	3.2	45
149	Excitation Energy Transfer in Dimeric Light Harvesting Complex I: A Combined Streak-Camera/Fluorescence Upconversion Study. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10132-10139	3.4	45
148	Photochemical behavior of xanthophylls in the recombinant photosystem II antenna complex, CP26. <i>Biochemistry</i> , 2001 , 40, 1220-5	3.2	45
147	Effects of a non-ionic detergent on the spectral properties and aggregation state of the light-harvesting chlorophyll a/b protein complex (LHCII). <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1991 , 9, 335-353	6.7	45
146	Solving structure in the CP29 light harvesting complex with polarization-phased 2D electronic spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3848-53	11.5	44
145	The calculated in vitro and in vivo chlorophyll a absorption bandshape. <i>Biophysical Journal</i> , 2002 , 82, 378-90	2.9	44
144	On the origin of a slowly reversible fluorescence decay component in the Arabidopsis npq4 mutant. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130221	5.8	43
143	Observation of Electronic Excitation Transfer Through Light Harvesting Complex II Using Two-Dimensional Electronic-Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4197-4206	6.4	43

142	Magnetic nanoparticles from <i>Magnetospirillum gryphiswaldense</i> increase the efficacy of thermotherapy in a model of colon carcinoma. <i>PLoS ONE</i> , 2014 , 9, e108959	3.7	42
141	Retrograde signaling and photoprotection in a <i>gun4</i> mutant of <i>Chlamydomonas reinhardtii</i> . <i>Molecular Plant</i> , 2012 , 5, 1242-62	14.4	42
140	Quenching in <i>Arabidopsis thaliana</i> mutants lacking monomeric antenna proteins of photosystem II. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36830-40	5.4	42
139	Biochemical and functional properties of photosystem II in agranal membranes from maize mesophyll and bundle sheath chloroplasts. <i>FEBS Journal</i> , 1995 , 233, 709-19		42
138	Mutation analysis of violaxanthin de-epoxidase identifies substrate-binding sites and residues involved in catalysis. <i>Journal of Biological Chemistry</i> , 2010 , 285, 23763-70	5.4	41
137	Chlorophyll b to chlorophyll a energy transfer kinetics in the CP29 antenna complex: a comparative femtosecond absorption study between native and reconstituted proteins. <i>Biophysical Journal</i> , 2003 , 84, 2508-16	2.9	41
136	A CK2 site is reversibly phosphorylated in the photosystem II subunit CP29. <i>FEBS Letters</i> , 1996 , 399, 245-50		41
135	The <i>Physcomitrella patens</i> gene atlas project: large-scale RNA-seq based expression data. <i>Plant Journal</i> , 2018 , 95, 168-182	6.9	40
134	Electron transfer between carotenoid and chlorophyll contributes to quenching in the LHCSR1 protein from <i>Physcomitrella patens</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016 , 1857, 1870-1878	4.6	40
133	Observation of dissipative chlorophyll-to-carotenoid energy transfer in light-harvesting complex II in membrane nanodiscs. <i>Nature Communications</i> , 2020 , 11, 1295	17.4	39
132	Role of xanthophylls in light harvesting in green plants: a spectroscopic investigation of mutant LHCII and Lhcb pigment-protein complexes. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 3834-49	3.4	39
131	Dynamics of zeaxanthin binding to the photosystem II monomeric antenna protein Lhcb6 (CP24) and modulation of its photoprotection properties. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 504, 67-77	4.1	39
130	The photosystem II subunit CP29 can be phosphorylated in both C3 and C4 plants as suggested by sequence analysis. <i>Plant Molecular Biology</i> , 1998 , 36, 11-22	4.6	39
129	Probing the structure of Lhca3 by mutation analysis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006 , 1757, 1607-13	4.6	39
128	Singlet and triplet state transitions of carotenoids in the antenna complexes of higher-plant photosystem I. <i>Biochemistry</i> , 2007 , 46, 3846-55	3.2	38
127	Occupancy and functional architecture of the pigment binding sites of photosystem II antenna complex Lhcb5. <i>Journal of Biological Chemistry</i> , 2009 , 284, 8103-13	5.4	37
126	Origin of the 701-nm fluorescence emission of the Lhca2 subunit of higher plant photosystem I. <i>Journal of Biological Chemistry</i> , 2004 , 279, 48543-9	5.4	36
125	Spectral properties and polypeptide composition of the chlorophyll-proteins from thylakoids of granal and agranal chloroplasts of maize (<i>Zea mays</i> L.). <i>Carlsberg Research Communications</i> , 1985 , 50, 127-143		36

124	Carotenoids: Localization and Function 1996 , 539-563		34
123	The association of the antenna system to photosystem I in higher plants. Cooperative interactions stabilize the supramolecular complex and enhance red-shifted spectral forms. <i>Journal of Biological Chemistry</i> , 2005 , 280, 31050-8	5.4	34
122	Enhancement of non-photochemical quenching in the Bryophyte <i>Physcomitrella patens</i> during acclimation to salt and osmotic stress. <i>Plant and Cell Physiology</i> , 2012 , 53, 1815-25	4.9	33
121	The relationship between the binding of dicyclohexylcarbodiimide and quenching of chlorophyll fluorescence in the light-harvesting proteins of photosystem II. <i>Biochemistry</i> , 1998 , 37, 11586-91	3.2	32
120	Dynamic Changes between Two LHCX-Related Energy Quenching Sites Control Diatom Photoacclimation. <i>Plant Physiology</i> , 2018 , 177, 953-965	6.6	32
119	The Electronic Structure of Lutein 2 Is Optimized for Light Harvesting in Plants. <i>CheM</i> , 2019 , 5, 575-584	16.2	31
118	Potential and Challenges of Improving Photosynthesis in Algae. <i>Plants</i> , 2020 , 9,	4.5	31
117	Post-transcriptional control of light-harvesting genes expression under light stress. <i>Plant Molecular Biology</i> , 2013 , 82, 147-54	4.6	31
116	Identification of the chromophores involved in aggregation-dependent energy quenching of the monomeric photosystem II antenna protein Lhcb5. <i>Journal of Biological Chemistry</i> , 2010 , 285, 28309-21	5.4	31
115	Excitation decay pathways of Lhca proteins: a time-resolved fluorescence study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21150-8	3.4	31
114	Differential expression of LHCII genes in mesophyll and bundle sheath cells of maize. <i>Carlsberg Research Communications</i> , 1986 , 51, 363-370		31
113	The Chloroplast Gene <i>ycf9</i> Encodes a Photosystem II (PSII) Core Subunit, PsbZ, That Participates in PSII Supramolecular Architecture. <i>Plant Cell</i> , 2001 , 13, 1347-1368	11.6	30
112	Xanthophyll binding sites of the CP29 (Lhcb4) subunit of higher plant photosystem II investigated by domain swapping and mutation analysis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 19190-8	5.4	29
111	Long-term acclimatory response to excess excitation energy: evidence for a role of hydrogen peroxide in the regulation of photosystem II antenna size. <i>Journal of Experimental Botany</i> , 2015 , 66, 7157-64		28
110	A quadruple mutant of <i>Arabidopsis</i> reveals a β -carotene hydroxylation activity for LUT1/CYP97C1 and a regulatory role of xanthophylls on determination of the PSI/PSII ratio. <i>BMC Plant Biology</i> , 2012 , 12, 50	5.3	28
109	The <i>Arabidopsis</i> <i>nox</i> mutant lacking carotene hydroxylase activity reveals a critical role for xanthophylls in photosystem I biogenesis. <i>Plant Cell</i> , 2013 , 25, 591-608	11.6	28
108	A study of Photosystem II fluorescence emission in terms of the antenna chlorophyll-protein complexes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993 , 1183, 194-200	4.6	28
107	High light-dependent phosphorylation of photosystem II inner antenna CP29 in monocots is STN7 independent and enhances nonphotochemical quenching. <i>Plant Physiology</i> , 2015 , 167, 457-71	6.6	26

106	Pigment-binding properties of the recombinant photosystem II subunit CP26 reconstituted in vitro. <i>FEBS Journal</i> , 1998 , 253, 653-8		26
105	Calcium binding to the photosystem II subunit CP29. <i>Journal of Biological Chemistry</i> , 2000 , 275, 12781-8	5.4	26
104	Microsecond and millisecond dynamics in the photosynthetic protein LHCSR1 observed by single-molecule correlation spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11247-11252	11.5	25
103	Ionic permeability of the mitochondrial outer membrane. <i>European Biophysics Journal</i> , 1992 , 20, 311-9	1.9	25
102	Antenna structure and energy transfer in higher plant photosystems. <i>Topics in Current Chemistry</i> , 1996 , 147-181		25
101	Combined resistance to oxidative stress and reduced antenna size enhance light-to-biomass conversion efficiency in cultures. <i>Biotechnology for Biofuels</i> , 2019 , 12, 221	7.8	24
100	LHC-like proteins involved in stress responses and biogenesis/repair of the photosynthetic apparatus. <i>Biochemical Journal</i> , 2019 , 476, 581-593	3.8	24
99	Characterization of magnetic nanoparticles from <i>Magnetospirillum Gryphiswaldense</i> as potential theranostics tools. <i>Contrast Media and Molecular Imaging</i> , 2016 , 11, 139-45	3.2	24
98	Investigating energy partitioning during photosynthesis using an expanded quantum yield convention. <i>Chemical Physics</i> , 2009 , 357, 151-158	2.3	24
97	Kinetic modeling of charge-transfer quenching in the CP29 minor complex. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13418-23	3.4	24
96	Magnetosomes Extracted from as Theranostic Agents in an Experimental Model of Glioblastoma. <i>Contrast Media and Molecular Imaging</i> , 2018 , 2018, 2198703	3.2	23
95	Regenerative therapies for diabetic microangiopathy. <i>Experimental Diabetes Research</i> , 2012 , 2012, 916560		23
94	The function of LHCBM4/6/8 antenna proteins in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , 2017 , 68, 627-641	7	23
93	Optimized Cas9 expression systems for highly efficient Arabidopsis genome editing facilitate isolation of complex alleles in a single generation. <i>Functional and Integrative Genomics</i> , 2020 , 20, 151-162	3.8	23
92	An NMR comparison of the light-harvesting complex II (LHCII) in active and photoprotective states reveals subtle changes in the chlorophyll a ground-state electronic structures. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013 , 1827, 738-44	4.6	22
91	A red-shifted antenna protein associated with photosystem II in <i>Physcomitrella patens</i> . <i>Journal of Biological Chemistry</i> , 2011 , 286, 28978-28987	5.4	22
90	Excitation energy transfer pathways in Lhca4. <i>Biophysical Journal</i> , 2005 , 88, 1959-69	2.9	22
89	Characterisation of stroma membranes from <i>Zea mays</i> L. chloroplasts. <i>Carlsberg Research Communications</i> , 1988 , 53, 221-232		21

88	Snapshot Transient Absorption Spectroscopy of Carotenoid Radical Cations in High-Light-Acclimating Thylakoid Membranes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5548-5554	6.4	20
87	Heterologous expression of moss light-harvesting complex stress-related 1 (LHCSR1), the chlorophyll a-xanthophyll pigment-protein complex catalyzing non-photochemical quenching, in <i>Nicotiana</i> sp. <i>Journal of Biological Chemistry</i> , 2015 , 290, 24340-54	5.4	20
86	Integration of carbon assimilation modes with photosynthetic light capture in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Molecular Plant</i> , 2014 , 7, 1545-59	14.4	20
85	Functional modulation of LHCSR1 protein from <i>Physcomitrella patens</i> by zeaxanthin binding and low pH. <i>Scientific Reports</i> , 2017 , 7, 11158	4.9	20
84	Chlorophyll-proteins from maize seedlings grown under intermittent light conditions. <i>Planta</i> , 1993 , 191, 265	4.7	20
83	A LHCB9-dependent photosystem I megacomplex induced under low light in <i>Physcomitrella patens</i> . <i>Nature Plants</i> , 2018 , 4, 910-919	11.5	20
82	Effects of altered β and β -branch carotenoid biosynthesis on photoprotection and whole-plant acclimation of <i>Arabidopsis</i> to photo-oxidative stress. <i>Plant, Cell and Environment</i> , 2013 , 36, 438-53	8.4	19
81	Biogenesis of photosynthetic complexes in the chloroplast of <i>Chlamydomonas reinhardtii</i> requires ARSA1, a homolog of prokaryotic arsenite transporter and eukaryotic TRC40 for guided entry of tail-anchored proteins. <i>Plant Journal</i> , 2013 , 73, 850-61	6.9	19
80	A Light Harvesting Complex-Like Protein in Maintenance of Photosynthetic Components in. <i>Plant Physiology</i> , 2017 , 174, 2419-2433	6.6	18
79	LHCII can substitute for LHCI as an antenna for photosystem I but with reduced light-harvesting capacity. <i>Nature Plants</i> , 2016 , 2, 16131	11.5	18
78	Purification of structurally intact grana from plants thylakoids membranes. <i>Journal of Bioenergetics and Biomembranes</i> , 2010 , 42, 37-45	3.7	18
77	Dissipation of Light Energy Absorbed in Excess: The Molecular Mechanisms. <i>Annual Review of Plant Biology</i> , 2021 , 72, 47-76	30.7	18
76	Genetic analysis of the expression of the cold-regulated gene <i>cor14b</i> : a way toward the identification of components of the cold response signal transduction in Triticeae. <i>Canadian Journal of Botany</i> , 2003 , 81, 1162-1167		17
75	The Light-Harvesting Complex of Photosystem I: Pigment Composition and Stoichiometry 1998 , 421-424		17
74	A Stepanov relation analysis of steady-state absorption and fluorescence spectra in the isolated D1/D2/cytochrome b-559 complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1995 , 1229, 59-63	4.6	17
73	Isolation and characterization of chloroplast Photosystem II antenna of spinach by reversed-phase liquid chromatography. <i>Photosynthesis Research</i> , 1999 , 61, 281-290	3.7	16
72	A systems-wide understanding of photosynthetic acclimation in algae and higher plants. <i>Journal of Experimental Botany</i> , 2017 , 68, 2667-2681	7	15
71	Enhance knowledge on sustainable use of plant protection products within the framework of the sustainable use directive. <i>Pest Management Science</i> , 2013 , 69, 883-8	4.6	15

70	The STN8 kinase-PBCP phosphatase system is responsible for high-light-induced reversible phosphorylation of the PSII inner antenna subunit CP29 in rice. <i>Plant Journal</i> , 2017 , 89, 681-691	6.9	15
69	First solid-state NMR analysis of uniformly ^{13}C -enriched major light-harvesting complexes from <i>Chlamydomonas reinhardtii</i> and identification of protein and cofactor spin clusters. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011 , 1807, 437-43	4.6	15
68	Design of a highly thermostable hemicellulose-degrading blend from <i>Thermotoga neapolitana</i> for the treatment of lignocellulosic biomass. <i>Journal of Biotechnology</i> , 2019 , 296, 42-52	3.7	14
67	Parallel pigment and transcriptomic analysis of four barley albina and xantha mutants reveals the complex network of the chloroplast-dependent metabolism. <i>Plant Molecular Biology</i> , 2009 , 71, 173-91	4.6	14
66	Effect of growth conditions on carboxylating enzymes of <i>Zea mays</i> plants. <i>Photosynthesis Research</i> , 1982 , 3, 53-8	3.7	13
65	Formate binding near the redox-active tyrosineD in photosystem II: consequences on the properties of tyrD. <i>Photosynthesis Research</i> , 2005 , 84, 139-44	3.7	12
64	Stark effect measurements on monomers and trimers of reconstituted light-harvesting complex II of plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004 , 1656, 177-88	4.6	11
63	Identification of a pigment cluster catalysing fast photoprotective quenching response in CP29. <i>Nature Plants</i> , 2020 , 6, 303-313	11.5	10
62	Loss of LHCI system affects LHCII re-distribution between thylakoid domains upon state transitions. <i>Photosynthesis Research</i> , 2018 , 135, 251-261	3.7	10
61	A structural investigation of the central chlorophyll a binding sites in the minor photosystem II antenna protein, Lhcb4. <i>Biochemistry</i> , 2002 , 41, 2305-10	3.2	10
60	Exploring the potential of microalgae in the recycling of dairy wastes. <i>Bioresource Technology Reports</i> , 2020 , 12, 100604	4.1	10
59	The low energy emitting states of the Lhca4 subunit of higher plant photosystem I. <i>FEBS Letters</i> , 2005 , 579, 2071-6	3.8	9
58	The relation between the minor chlorophyll spectral forms and fluorescence quenching in aggregated light harvesting chlorophyll ab complex II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994 , 1184, 279-283	4.6	9
57	Photoprotective Mechanisms: Carotenoids 2014 , 393-435		9
56	Assembly of Light Harvesting Pigment-Protein Complexes in Photosynthetic Eukaryotes. <i>Advances in Photosynthesis and Respiration</i> , 2012 , 113-126	1.7	9
55	The Organisation of Photosystem II Chlorophyll-Proteins 1987 , 81-88		9
54	Novel aspects of chlorophyll a/b-binding proteins. <i>Physiologia Plantarum</i> , 1997 , 100, 769-779	4.6	9
53	Cell Synchronization Enhances Nuclear Transformation and Genome Editing Cas9 Enabling Homologous Recombination in. <i>ACS Synthetic Biology</i> , 2020 , 9, 2840-2850	5.7	9

52	A Phosphite Dehydrogenase Variant with Promiscuous Access to Nicotinamide Cofactor Pools Sustains Fast Phosphite-Dependent Growth of Transplastomic. <i>Plants</i> , 2020 , 9,	4.5	9
51	Biochemistry and Molecular Biology of Pigment Binding Proteins 1996 , 41-63		8
50	Photosynthesis research in Italy: a review. <i>Photosynthesis Research</i> , 2006 , 88, 211-40	3.7	8
49	Pigment conformation and pigment-protein interactions in the reconstituted Lhcb4 antenna protein. <i>FEBS Letters</i> , 2001 , 492, 54-7	3.8	8
48	Multiple light-harvesting II polypeptides from maize mesophyll chloroplasts are distinct gene products. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999 , 49, 50-60	6.7	7
47	Studies on the Herbicide Binding Site in Isolated Photosystem II Core Complexes from a Flat-Bed Isoelectrofocusing Method. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1990 , 45, 366-372	1.7	7
46	LHCI: The Antenna Complex of Photosystem I in Plants and Green Algae 2006 , 119-137		7
45	Monomeric light harvesting complexes enhance excitation energy transfer from LHCI to PSII and control their lateral spacing in thylakoids. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020 , 1861, 148035	4.6	6
44	Protein-Protein Interactions Induce pH-Dependent and Zeaxanthin-Independent Photoprotection in the Plant Light-Harvesting Complex, LHCI. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17577-17586	16.4	5
43	A microalgal-based preparation with synergistic cellulolytic and detoxifying action towards chemical-treated lignocellulose. <i>Plant Biotechnology Journal</i> , 2021 , 19, 124-137	11.6	5
42	Functional analysis of LHCSR1, a protein catalyzing NPQ in mosses, by heterologous expression in <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , 2019 , 142, 249-264	3.7	4
41	High Carotenoid Mutants of Show Enhanced Biomass Yield under High Irradiance. <i>Plants</i> , 2021 , 10,	4.5	4
40	Plants with less chlorophyll: A global change perspective. <i>Global Change Biology</i> , 2020 , 27, 959	11.4	4
39	Probing in vitro translation products with monoclonal antibodies to chlorophyll a/b-binding proteins of barley thylakoids. <i>Carlsberg Research Communications</i> , 1988 , 53, 297-308		3
38	Studies on the composition, structure and differentiation of fish egg chorion. <i>Cell Biology International Reports</i> , 1986 , 10, 471		3
37	Molecular Mechanisms for Activation of Non-Photochemical Fluorescence Quenching: From Unicellular Algae to Mosses and Higher Plants. <i>Advances in Photosynthesis and Respiration</i> , 2014 , 315-331	1.7	3
36	Harnessing the Algal Chloroplast for Heterologous Protein Production.. <i>Microorganisms</i> , 2022 , 10,	4.9	3
35	Algae: A New Biomass Resource 2019 , 165-197		2

34	Identification and characterization of photosystem II chlorophyll a/b binding proteins in <i>Marchantia polymorpha</i> L. <i>Planta</i> , 1998 , 204, 260-7	4.7	2
33	Supramolecular assembly of chloroplast NADH dehydrogenase-like complex with photosystem I from <i>Arabidopsis thaliana</i> .. <i>Molecular Plant</i> , 2022 ,	14.4	2
32	Chlorophyll-Xanthophyll Antenna Complexes: In Between Light Harvesting and Energy Dissipation. <i>Advances in Photosynthesis and Respiration</i> , 2020 , 27-55	1.7	2
31	Light-Harvesting Chlorophyll-Proteins of Barley Photosystem I 1987 , 61-64		2
30	The Role of LHCII in Thylakoid Membranes 1987 , 277-280		2
29	Effect of lhcsr gene dosage on oxidative stress and light use efficiency by <i>Chlamydomonas reinhardtii</i> cultures. <i>Journal of Biotechnology</i> , 2021 , 328, 12-22	3.7	2
28	Reorganization of Thylakoid Membrane Lateral Heterogeneity Following State I ↔ State II Transition 1992 , 511-520		2
27	Ultrabroadband two-dimensional electronic spectroscopy reveals energy flow pathways in LHCII across the visible spectrum. <i>EPJ Web of Conferences</i> , 2019 , 205, 09034	0.3	1
26	Light harvesting complex I is essential for Photosystem II photoprotection under variable light conditions in <i>Arabidopsis thaliana</i> . <i>Environmental and Experimental Botany</i> , 2018 , 154, 89-98	5.9	1
25	The Chloroplast Gene <i>ycf9</i> Encodes a Photosystem II (PSII) Core Subunit, <i>PsbZ</i> , That Participates in PSII Supramolecular Architecture. <i>Plant Cell</i> , 2001 , 13, 1347	11.6	1
24	The role of light-harvesting complex I in excitation-energy transfer from LHCII to photosystem I in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2021 ,	6.6	1
23	Elucidation of Electronic Structure and Quantum Coherence in LHCII with Polarized 2D Spectroscopy 2010 ,		1
22	Optimized Cas9 expression systems for highly efficient <i>Arabidopsis</i> genome editing facilitate isolation of complex alleles in a single generation		1
21	cDNA Deduced Amino Acid Sequences of Maize CP24 and CP26, the Two Major Zeaxanthin-Binding Proteins of Photosystem II 1995 , 199-202		1
20	In Vitro Reconstitution and Pigment Binding Properties of Recombinant CP29 and CP24 1995 , 271-274		1
19	Zeaxanthin-induced fluorescence quenching in the minor antenna CP29 1998 , 333-336		1
18	Light-harvesting complex stress-related proteins play crucial roles in the acclimation of <i>Physcomitrella patens</i> under fluctuating light conditions. <i>Photosynthesis Research</i> , 2021 , 1	3.7	1
17	A chimeric hydrolase-PTXD transgene enables chloroplast-based heterologous protein expression and non-sterile cultivation of <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , 2021 , 59, 102429	5	1

- 16 A new function for the xanthophyll zeaxanthin: glueing chlorophyll biosynthesis to thylakoid protein assembly. *Biochemical Journal*, **2021**, 478, 61-62 3.8 1
- 15 Loss of a single chlorophyll in CP29 triggers re-organization of the Photosystem II supramolecular assembly.. *Biochimica Et Biophysica Acta - Bioenergetics*, **2022**, 148555 4.6 0
- 14 Renewable Energy Systems **2013**, 1-26
- 13 In Vitro Reconstitution and Pigment Binding Properties of Recombinant CP29 and CP24. *Giornale Botanico Italiano (Florence, Italy: 1962)*, **1995**, 129, 1073-1074
- 12 Xantophyll Cycle Pigments in Wild Type Arabidopsis and in aba Mutants Blocked in Zeaxanthin Epoxidation. *Giornale Botanico Italiano (Florence, Italy: 1962)*, **1995**, 129, 1077-1078
- 11 Polyamines in Chloroplasts: Post-Translational Modification of Chlorophyll-a/b Proteins. *Giornale Botanico Italiano (Florence, Italy: 1962)*, **1994**, 128, 329-329
- 10 Kinetic Description of Energy and Charge transfer Processes in PSI from Arabidopsis thaliana **2008**, 323-326
- 9 The Role of Light Harvesting Complex II and of the Minor Chlorophyll a/b Proteins in the Organization of the Photosystem II Antenna System **1990**, 1169-1176
- 8 Properties of the Minor Chlorophyll a/b Proteins CP29, CP26 and CP24 from Zea mays Photosystem II Membranes **1990**, 1209-1212
- 7 Organization of the Photosystem II Antenna System of Maize Plants Grown Under Intermittent Light Condition **1992**, 405-410
- 6 Xantophyll Cycle Pigments in Wild Type Arabidopsis and in aba Mutants Blocked in Zeaxanthin Epoxidation **1995**, 3059-3062
- 5 Thermal Equilibration of Excited States in Antenna of PSI-200 **1995**, 183-186
- 4 Mutation analysis of either protein or chromophore moieties in Higher Plants Light Harvesting Proteins **1998**, 253-258
- 3 Cell-Specific Expression of LHCII and The Organisation of the Photosynthetic Reaction Centres in Chloroplast Thylakoids **1987**, 93-104
- 2 Look for methods, not conclusions. *Cell Death and Disease*, **2019**, 10, 931 9.8
- 1 The intrusion of ecology into hydrology and morphodynamics. *Rendiconti Lincei*, **1** 1.7