

# Roberto Bassi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

303  
papers

19,103  
citations

83  
h-index

122  
g-index

317  
ext. papers

20,912  
ext. citations

5.8  
avg. IF

6.65  
L-index

#	Paper	IF	Citations
303	Supramolecular assembly of chloroplast NADH dehydrogenase-like complex with photosystem I from <i>Arabidopsis thaliana</i> .. <i>Molecular Plant</i> , <b>2022</b> ,	14.4	2
302	Harnessing the Algal Chloroplast for Heterologous Protein Production.. <i>Microorganisms</i> , <b>2022</b> , 10,	4.9	3
301	Loss of a single chlorophyll in CP29 triggers re-organization of the Photosystem II supramolecular assembly.. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2022</b> , 148555	4.6	0
300	The role of light-harvesting complex I in excitation-energy transfer from LHCII to photosystem I in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2021</b> ,	6.6	1
299	Protein-Protein Interactions Induce pH-Dependent and Zeaxanthin-Independent Photoprotection in the Plant Light-Harvesting Complex, LHCII. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 17577-17586 <sup>5</sup>	16.4	5
298	High Carotenoid Mutants of Show Enhanced Biomass Yield under High Irradiance. <i>Plants</i> , <b>2021</b> , 10,	4.5	4
297	Dissipation of Light Energy Absorbed in Excess: The Molecular Mechanisms. <i>Annual Review of Plant Biology</i> , <b>2021</b> , 72, 47-76	30.7	18
296	A microalgal-based preparation with synergistic cellulolytic and detoxifying action towards chemical-treated lignocellulose. <i>Plant Biotechnology Journal</i> , <b>2021</b> , 19, 124-137	11.6	5
295	Effect of lhcsr gene dosage on oxidative stress and light use efficiency by <i>Chlamydomonas reinhardtii</i> cultures. <i>Journal of Biotechnology</i> , <b>2021</b> , 328, 12-22	3.7	2
294	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> , <b>2021</b> , 1	3.7	1
293	A chimeric hydrolase-PTXD transgene enables chloroplast-based heterologous protein expression and non-sterile cultivation of <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , <b>2021</b> , 59, 102429	5	1
292	A new function for the xanthophyll zeaxanthin: glueing chlorophyll biosynthesis to thylakoid protein assembly. <i>Biochemical Journal</i> , <b>2021</b> , 478, 61-62	3.8	1
291	Observation of dissipative chlorophyll-to-carotenoid energy transfer in light-harvesting complex II in membrane nanodiscs. <i>Nature Communications</i> , <b>2020</b> , 11, 1295	17.4	39
290	Identification of a pigment cluster catalysing fast photoprotective quenching response in CP29. <i>Nature Plants</i> , <b>2020</b> , 6, 303-313	11.5	10
289	Potential and Challenges of Improving Photosynthesis in Algae. <i>Plants</i> , <b>2020</b> , 9,	4.5	31
288	Chlorophyll-Xanthophyll Antenna Complexes: In Between Light Harvesting and Energy Dissipation. <i>Advances in Photosynthesis and Respiration</i> , <b>2020</b> , 27-55	1.7	2
287	Exploring the potential of microalgae in the recycling of dairy wastes. <i>Bioresource Technology Reports</i> , <b>2020</b> , 12, 100604	4.1	10

286	Cell Synchronization Enhances Nuclear Transformation and Genome Editing Cas9 Enabling Homologous Recombination in. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 2840-2850	5.7	9
285	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> , <b>2020</b> , 20, 151-162	3.8	23
284	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> , <b>2020</b> , 1861, 1480-1485	4.6	6
283	A Phosphite Dehydrogenase Variant with Promiscuous Access to Nicotinamide Cofactor Pools Sustains Fast Phosphite-Dependent Growth of Transplastomic. <i>Plants</i> , <b>2020</b> , 9,	4.5	9
282	Plants with less chlorophyll: A global change perspective. <i>Global Change Biology</i> , <b>2020</b> , 27, 959	11.4	4
281	Combined resistance to oxidative stress and reduced antenna size enhance light-to-biomass conversion efficiency in cultures. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 221	7.8	24
280	The Electronic Structure of Lutein 2 Is Optimized for Light Harvesting in Plants. <i>Chem</i> , <b>2019</b> , 5, 575-584	16.2	31
279	Ultrabroadband two-dimensional electronic spectroscopy reveals energy flow pathways in LHCI across the visible spectrum. <i>EPJ Web of Conferences</i> , <b>2019</b> , 205, 09034	0.3	1
278	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> , <b>2019</b> , 116, 11247-11252	11.5	25
277	Design of a highly thermostable hemicellulose-degrading blend from <i>Thermotoga neapolitana</i> for the treatment of lignocellulosic biomass. <i>Journal of Biotechnology</i> , <b>2019</b> , 296, 42-52	3.7	14
276	LHC-like proteins involved in stress responses and biogenesis/repair of the photosynthetic apparatus. <i>Biochemical Journal</i> , <b>2019</b> , 476, 581-593	3.8	24
275	Algae: A New Biomass Resource <b>2019</b> , 165-197		2
274	Functional analysis of LHCSR1, a protein catalyzing NPQ in mosses, by heterologous expression in <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , <b>2019</b> , 142, 249-264	3.7	4
273	LHCSR3 is a nonphotochemical quencher of both photosystems in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 4212-4217	11.5	46
272	Look for methods, not conclusions. <i>Cell Death and Disease</i> , <b>2019</b> , 10, 931	9.8	
271	The <i>Physcomitrella patens</i> gene atlas project: large-scale RNA-seq based expression data. <i>Plant Journal</i> , <b>2018</b> , 95, 168-182	6.9	40
270	Molecular mechanisms involved in plant photoprotection. <i>Biochemical Society Transactions</i> , <b>2018</b> , 46, 467-482	5.1	83
269	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> , <b>2018</b> , 154, 89-98	5.9	1

268	Loss of LHCI system affects LHCI re-distribution between thylakoid domains upon state transitions. <i>Photosynthesis Research</i> , <b>2018</b> , 135, 251-261	3.7	10
267	Magnetosomes Extracted from as Theranostic Agents in an Experimental Model of Glioblastoma. <i>Contrast Media and Molecular Imaging</i> , <b>2018</b> , 2018, 2198703	3.2	23
266	A LHCB9-dependent photosystem I megacomplex induced under low light in <i>Physcomitrella patens</i> . <i>Nature Plants</i> , <b>2018</b> , 4, 910-919	11.5	20
265	Dynamic Changes between Two LHCX-Related Energy Quenching Sites Control Diatom Photoacclimation. <i>Plant Physiology</i> , <b>2018</b> , 177, 953-965	6.6	32
264	Two mechanisms for dissipation of excess light in monomeric and trimeric light-harvesting complexes. <i>Nature Plants</i> , <b>2017</b> , 3, 17033	11.5	95
263	A systems-wide understanding of photosynthetic acclimation in algae and higher plants. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 2667-2681	7	15
262	A Light Harvesting Complex-Like Protein in Maintenance of Photosynthetic Components in. <i>Plant Physiology</i> , <b>2017</b> , 174, 2419-2433	6.6	18
261	Snapshot Transient Absorption Spectroscopy of Carotenoid Radical Cations in High-Light-Acclimating Thylakoid Membranes. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5548-5554	6.4	20
260	Functional modulation of LHCSR1 protein from <i>Physcomitrella patens</i> by zeaxanthin binding and low pH. <i>Scientific Reports</i> , <b>2017</b> , 7, 11158	4.9	20
259	Single-molecule spectroscopy of LHCSR1 protein dynamics identifies two distinct states responsible for multi-timescale photosynthetic photoprotection. <i>Nature Chemistry</i> , <b>2017</b> , 9, 772-778	17.6	57
258	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> , <b>2017</b> , 89, 681-691	6.9	15
257	The function of LHCBM4/6/8 antenna proteins in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 627-641	7	23
256	Increased biomass productivity in green algae by tuning non-photochemical quenching. <i>Scientific Reports</i> , <b>2016</b> , 6, 21339	4.9	56
255	LHCII can substitute for LHCI as an antenna for photosystem I but with reduced light-harvesting capacity. <i>Nature Plants</i> , <b>2016</b> , 2, 16131	11.5	18
254	Characterization of magnetic nanoparticles from <i>Magnetospirillum Gryphiswaldense</i> as potential theranostics tools. <i>Contrast Media and Molecular Imaging</i> , <b>2016</b> , 11, 139-45	3.2	24
253	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> , <b>2016</b> , 291, 7334-46	5.4	71
252	Multi-Level Light Capture Control in Plants and Green Algae. <i>Trends in Plant Science</i> , <b>2016</b> , 21, 55-68	13.1	74
251	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> , <b>2016</b> , 1857, 1870-1878	4.6	40

250	Observation of Electronic Excitation Transfer Through Light Harvesting Complex II Using Two-Dimensional Electronic-Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4197-4206	6.4	43
249	Antenna size reduction as a strategy to increase biomass productivity: a great potential not yet realized. <i>Journal of Applied Phycology</i> , <b>2015</b> , 27, 1063-1077	3.2	65
248	Biogenesis of light harvesting proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2015</b> , 1847, 861-714.6	4.6	51
247	Light-Harvesting Complex Stress-Related Proteins Catalyze Excess Energy Dissipation in Both Photosystems of <i>Physcomitrella patens</i> . <i>Plant Cell</i> , <b>2015</b> , 27, 3213-27	11.6	45
246	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 sp.</i> <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 24340-54	5.4	20
245	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> , <b>2015</b> , 66, 7157-64	7.64	28
244	High light-dependent phosphorylation of photosystem II inner antenna CP29 in monocots is STN7 independent and enhances nonphotochemical quenching. <i>Plant Physiology</i> , <b>2015</b> , 167, 457-71	6.6	26
243	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> , <b>2015</b> , 172, 92-103	3.6	61
242	Sharing light between two photosystems: mechanism of state transitions. <i>Current Opinion in Plant Biology</i> , <b>2015</b> , 25, 71-8	9.9	70
241	Light-Harvesting Complex Protein LHCBM9 Is Critical for Photosystem II Activity and Hydrogen Production in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , <b>2014</b> , 26, 1598-1611	11.6	51
240	Integration of carbon assimilation modes with photosynthetic light capture in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Molecular Plant</i> , <b>2014</b> , 7, 1545-59	14.4	20
239	On the origin of a slowly reversible fluorescence decay component in the <i>Arabidopsis npq4</i> mutant. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369, 20130221	5.8	43
238	Regulation of photosystem I light harvesting by zeaxanthin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E2431-8	11.5	59
237	Magnetic nanoparticles from <i>Magnetospirillum gryphiswaldense</i> increase the efficacy of thermotherapy in a model of colon carcinoma. <i>PLoS ONE</i> , <b>2014</b> , 9, e108959	3.7	42
236	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> , <b>2014</b> , 7, 157	7.8	98
235	Photoprotective Mechanisms: Carotenoids <b>2014</b> , 393-435		9
234	Molecular Mechanisms for Activation of Non-Photochemical Fluorescence Quenching: From Unicellular Algae to Mosses and Higher Plants. <i>Advances in Photosynthesis and Respiration</i> , <b>2014</b> , 315-331	17	3
233	Post-transcriptional control of light-harvesting genes expression under light stress. <i>Plant Molecular Biology</i> , <b>2013</b> , 82, 147-54	4.6	31

232	Interaction between avoidance of photon absorption, excess energy dissipation and zeaxanthin synthesis against photooxidative stress in Arabidopsis. <i>Plant Journal</i> , <b>2013</b> , 76, 568-79	6.9	96
231	Renewable Energy Systems <b>2013</b> , 1-26		
230	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> , <b>2013</b> , 1827, 738-44	4.6	22
229	Zeaxanthin binds to light-harvesting complex stress-related protein to enhance nonphotochemical quenching in <i>Physcomitrella patens</i> . <i>Plant Cell</i> , <b>2013</b> , 25, 3519-34	11.6	93
228	Enhance knowledge on sustainable use of plant protection products within the framework of the sustainable use directive. <i>Pest Management Science</i> , <b>2013</b> , 69, 883-8	4.6	15
227	Effects of altered $\delta$ and $\epsilon$ branch carotenoid biosynthesis on photoprotection and whole-plant acclimation of Arabidopsis to photo-oxidative stress. <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 438-53	8.4	19
226	The Arabidopsis nox mutant lacking carotene hydroxylase activity reveals a critical role for xanthophylls in photosystem I biogenesis. <i>Plant Cell</i> , <b>2013</b> , 25, 591-608	11.6	28
225	Chlorophyll triplet quenching and photoprotection in the higher plant monomeric antenna protein Lhcb5. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 11337-48	3.4	55
224	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> , <b>2013</b> , 73, 850-61	6.9	19
223	Evolution and functional properties of photosystem II light harvesting complexes in eukaryotes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 143-57	4.6	120
222	Acclimation of <i>Chlamydomonas reinhardtii</i> to different growth irradiances. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 5833-47	5.4	149
221	Coexistence of plant and algal energy dissipation mechanisms in the moss <i>Physcomitrella patens</i> . <i>New Phytologist</i> , <b>2012</b> , 196, 763-773	9.8	46
220	Zeaxanthin protects plant photosynthesis by modulating chlorophyll triplet yield in specific light-harvesting antenna subunits. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 41820-34	5.4	92
219	Retrograde signaling and photoprotection in a gun4 mutant of <i>Chlamydomonas reinhardtii</i> . <i>Molecular Plant</i> , <b>2012</b> , 5, 1242-62	14.4	42
218	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> , <b>2012</b> , 162, 115-23	3.7	60
217	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> , <b>2012</b> , 116, 3834-49	3.4	39
216	The Arabidopsis szl1 mutant reveals a critical role of $\epsilon$ carotene in photosystem I photoprotection. <i>Plant Physiology</i> , <b>2012</b> , 159, 1745-58	6.6	94
215	A quadruple mutant of Arabidopsis reveals a $\epsilon$ carotene hydroxylation activity for LUT1/CYP97C1 and a regulatory role of xanthophylls on determination of the PSI/PSII ratio. <i>BMC Plant Biology</i> , <b>2012</b> , 12, 50	5.3	28

214	Elucidation of the timescales and origins of quantum electronic coherence in LHCII. <i>Nature Chemistry</i> , <b>2012</b> , 4, 389-95	17.6	140
213	Regenerative therapies for diabetic microangiopathy. <i>Experimental Diabetes Research</i> , <b>2012</b> , 2012, 916560		23
212	LHCBM1 and LHCBM2/7 polypeptides, components of major LHCII complex, have distinct functional roles in photosynthetic antenna system of <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 16276-88	5.4	70
211	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> , <b>2012</b> , 53, 1815-25	4.9	33
210	Assembly of Light Harvesting Pigment-Protein Complexes in Photosynthetic Eukaryotes. <i>Advances in Photosynthesis and Respiration</i> , <b>2012</b> , 113-126	1.7	9
209	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> , <b>2011</b> , 108, 3848-53	11.5	44
208	Role of PSBS and LHCSR in <i>Physcomitrella patens</i> acclimation to high light and low temperature. <i>Plant, Cell and Environment</i> , <b>2011</b> , 34, 922-932	8.4	66
207	First solid-state NMR analysis of uniformly $^{13}\text{C}$ -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> , <b>2011</b> , 1807, 437-43	4.6	15
206	Mutagenesis and phenotypic selection as a strategy toward domestication of <i>Chlamydomonas reinhardtii</i> strains for improved performance in photobioreactors. <i>Photosynthesis Research</i> , <b>2011</b> , 108, 107-20	3.7	55
205	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> , <b>2011</b> , 11, 62	5.3	81
204	Quenching in <i>Arabidopsis thaliana</i> mutants lacking monomeric antenna proteins of photosystem II. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 36830-40	5.4	42
203	<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> , <b>2011</b> , 23, 2659-79	11.6	105
202	A red-shifted antenna protein associated with photosystem II in <i>Physcomitrella patens</i> . <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 28978-28987	5.4	22
201	Analysis of LhcSR3, a protein essential for feedback de-excitation in the green alga <i>Chlamydomonas reinhardtii</i> . <i>PLoS Biology</i> , <b>2011</b> , 9, e1000577	9.7	204
200	Enhanced photoprotection by protein-bound vs free xanthophyll pools: a comparative analysis of chlorophyll b and xanthophyll biosynthesis mutants. <i>Molecular Plant</i> , <b>2010</b> , 3, 576-93	14.4	136
199	Identification of the chromophores involved in aggregation-dependent energy quenching of the monomeric photosystem II antenna protein Lhcb5. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 28309-21	5.4	31
198	Mutation analysis of violaxanthin de-epoxidase identifies substrate-binding sites and residues involved in catalysis. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 23763-70	5.4	41
197	Effect of antenna-depletion in Photosystem II on excitation energy transfer in <i>Arabidopsis thaliana</i> . <i>Biophysical Journal</i> , <b>2010</b> , 98, 922-31	2.9	92

196	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> , <b>2010</b> , 504, 67-77	4.1	39
195	Spectroscopic elucidation of uncoupled transition energies in the major photosynthetic light-harvesting complex, LHCI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 13276-81	11.5	59
194	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> , <b>2010</b> , 107, 11128-33	11.5	156
193	Regulation of plant light harvesting by thermal dissipation of excess energy. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 651-60	5.1	111
192	Purification of structurally intact grana from plants thylakoids membranes. <i>Journal of Bioenergetics and Biomembranes</i> , <b>2010</b> , 42, 37-45	3.7	18
191	Functional analysis of Photosystem I light-harvesting complexes (Lhca) gene products of Chlamydomonas reinhardtii. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 212-21	4.6	48
190	Elucidation of Electronic Structure and Quantum Coherence in LHCI with Polarized 2D Spectroscopy <b>2010</b> ,		1
189	Analysis of the chloroplast protein kinase Stt7 during state transitions. <i>PLoS Biology</i> , <b>2009</b> , 7, e45	9.7	126
188	Light-induced dissociation of an antenna hetero-oligomer is needed for non-photochemical quenching induction. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 15255-66	5.4	242
187	Lutein can act as a switchable charge transfer quencher in the CP26 light-harvesting complex. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 2830-2835	5.4	65
186	Occupancy and functional architecture of the pigment binding sites of photosystem II antenna complex Lhcb5. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 8103-13	5.4	37
185	A structural basis for the pH-dependent xanthophyll cycle in Arabidopsis thaliana. <i>Plant Cell</i> , <b>2009</b> , 21, 2036-44	11.6	119
184	Improper excess light energy dissipation in Arabidopsis results in a metabolic reprogramming. <i>BMC Plant Biology</i> , <b>2009</b> , 9, 12	5.3	62
183	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> , <b>2009</b> , 71, 173-91	4.6	14
182	Investigating energy partitioning during photosynthesis using an expanded quantum yield convention. <i>Chemical Physics</i> , <b>2009</b> , 357, 151-158	2.3	24
181	Quantum coherence enabled determination of the energy landscape in light-harvesting complex II. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 16291-5	3.4	244
180	Pathways of energy flow in LHCI from two-dimensional electronic spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 15352-63	3.4	152
179	Lutein accumulation in the absence of zeaxanthin restores nonphotochemical quenching in the Arabidopsis thaliana npq1 mutant. <i>Plant Cell</i> , <b>2009</b> , 21, 1798-812	11.6	156

178	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> , <b>2008</b> , 84, 1359-70	3.6	84
177	Trap-limited charge separation kinetics in higher plant photosystem I complexes. <i>Biophysical Journal</i> , <b>2008</b> , 94, 3601-12	2.9	78
176	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> , <b>2008</b> , 1777, 1263-7	4.6	76
175	Architecture of a charge-transfer state regulating light harvesting in a plant antenna protein. <i>Science</i> , <b>2008</b> , 320, 794-7	33.3	449
174	Kinetic modeling of charge-transfer quenching in the CP29 minor complex. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 13418-23	3.4	24
173	Zeaxanthin radical cation formation in minor light-harvesting complexes of higher plant antenna. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 3550-3558	5.4	184
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