

Eva-Mari Aro

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387
papers

21,619
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81
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130
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405
ext. papers

24,217
ext. citations

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L-index

#	Paper	IF	Citations
387	Photoinhibition of Photosystem II. Inactivation, protein damage and turnover. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993 , 1143, 113-34	4.6	1780
386	Reversible and irreversible intermediates during photoinhibition of photosystem II: stable reduced QA species promote chlorophyll triplet formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 1408-12	11.5	452
385	Manganese Compounds as Water-Oxidizing Catalysts: From the Natural Water-Oxidizing Complex to Nanosized Manganese Oxide Structures. <i>Chemical Reviews</i> , 2016 , 116, 2886-936	68.1	442
384	Dynamics of photosystem II: a proteomic approach to thylakoid protein complexes. <i>Journal of Experimental Botany</i> , 2005 , 56, 347-56	7	386
383	The rate constant of photoinhibition, measured in lincomycin-treated leaves, is directly proportional to light intensity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 2213-8	11.5	364
382	PROTON GRADIENT REGULATIONS is essential for proper acclimation of Arabidopsis photosystem I to naturally and artificially fluctuating light conditions. <i>Plant Cell</i> , 2012 , 24, 2934-48	11.6	329
381	Photoinhibition and D1 Protein Degradation in Peas Acclimated to Different Growth Irradiances. <i>Plant Physiology</i> , 1993 , 103, 835-843	6.6	270
380	Photosynthesis, photorespiration, and light signalling in defence responses. <i>Journal of Experimental Botany</i> , 2012 , 63, 1619-36	7	267
379	Excess copper predisposes photosystem II to photoinhibition in vivo by outcompeting iron and causing decrease in leaf chlorophyll. <i>Plant Physiology</i> , 2002 , 129, 1359-67	6.6	250
378	Cooperative regulation of light-harvesting complex II phosphorylation via the plastoquinol and ferredoxin-thioredoxin system in chloroplasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11644-9	11.5	247
377	Photosystem II photoinhibition-repair cycle protects Photosystem I from irreversible damage. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 210-5	4.6	217
376	Flavodiiron proteins Flv1 and Flv3 enable cyanobacterial growth and photosynthesis under fluctuating light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4111-6	11.5	217
375	Optimized native gel systems for separation of thylakoid protein complexes: novel super- and mega-complexes. <i>Biochemical Journal</i> , 2011 , 439, 207-14	3.8	203
374	Phosphorylation of light-harvesting complex II and photosystem II core proteins shows different irradiance-dependent regulation in vivo. Application of phosphothreonine antibodies to analysis of thylakoid phosphoproteins. <i>Journal of Biological Chemistry</i> , 1997 , 272, 30476-82	5.4	200
373	Thylakoid protein phosphorylation in higher plant chloroplasts optimizes electron transfer under fluctuating light. <i>Plant Physiology</i> , 2010 , 152, 723-35	6.6	199
372	From first generation biofuels to advanced solar biofuels. <i>Ambio</i> , 2016 , 45 Suppl 1, S24-31	6.5	194
371	Photosystem II repair in plant chloroplasts--Regulation, assisting proteins and shared components with photosystem II biogenesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 900-9	4.6	193

370	Expression and functional roles of the two distinct NDH-1 complexes and the carbon acquisition complex NdhD3/NdhF3/CupA/Sll1735 in <i>Synechocystis</i> sp PCC 6803. <i>Plant Cell</i> , 2004 , 16, 3326-40	11.6	190
369	Cyanobacterial NDH-1 complexes: novel insights and remaining puzzles. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011 , 1807, 935-44	4.6	186
368	Biogenesis, assembly and turnover of photosystem II units. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002 , 357, 1451-9; discussion 1459-60	5.8	174
367	Co-translational assembly of the D1 protein into photosystem II. <i>Journal of Biological Chemistry</i> , 1999 , 274, 16062-7	5.4	171
366	Grana stacking and protection of Photosystem II in thylakoid membranes of higher plant leaves under sustained high irradiance: An hypothesis. <i>Photosynthesis Research</i> , 1994 , 41, 315-26	3.7	163
365	The light-harvesting chlorophyll a/b binding proteins Lhcb1 and Lhcb2 play complementary roles during state transitions in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014 , 26, 3646-60	11.6	157
364	Integrative regulatory network of plant thylakoid energy transduction. <i>Trends in Plant Science</i> , 2014 , 19, 10-7	13.1	156
363	Core protein phosphorylation facilitates the repair of photodamaged photosystem II at high light. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 1432-7	4.6	154
362	Synthesis and assembly of thylakoid protein complexes: multiple assembly steps of photosystem II. <i>Biochemical Journal</i> , 2005 , 388, 159-68	3.8	154
361	Differential D1 dephosphorylation in functional and photodamaged photosystem II centers. Dephosphorylation is a prerequisite for degradation of damaged D1. <i>Journal of Biological Chemistry</i> , 1996 , 271, 14870-5	5.4	152
360	Towards functional proteomics of membrane protein complexes in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2004 , 134, 470-81	6.6	151
359	Thylakoid protein phosphorylation in dynamic regulation of photosystem II in higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 232-8	4.6	150
358	Strategies for psbA gene expression in cyanobacteria, green algae and higher plants: from transcription to PSII repair. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 247-57	4.6	148
357	Biogenesis of the chloroplast-encoded D1 protein: regulation of translation elongation, insertion, and assembly into photosystem II. <i>Plant Cell</i> , 2000 , 12, 1769-82	11.6	146
356	NDH-1 and NDH-2 Plastoquinone Reductases in Oxygenic Photosynthesis. <i>Annual Review of Plant Biology</i> , 2016 , 67, 55-80	30.7	145
355	In vitro studies on light-induced inhibition of Photosystem II and D1-protein degradation at low temperatures. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990 , 1019, 269-275	4.6	143
354	Diverse roles for chloroplast stromal and thylakoid-bound ascorbate peroxidases in plant stress responses. <i>Biochemical Journal</i> , 2008 , 412, 275-85	3.8	142
353	Chloroplast-mediated regulation of nuclear genes in <i>Arabidopsis thaliana</i> in the absence of light stress. <i>Physiological Genomics</i> , 2006 , 25, 142-52	3.6	137

352	Steady-state phosphorylation of light-harvesting complex II proteins preserves photosystem I under fluctuating white light. <i>Plant Physiology</i> , 2012 , 160, 1896-910	6.6	134
351	Structure of the chloroplast NADH dehydrogenase-like complex: nomenclature for nuclear-encoded subunits. <i>Plant and Cell Physiology</i> , 2011 , 52, 1560-8	4.9	132
350	Dephosphorylation of photosystem II reaction center proteins in plant photosynthetic membranes as an immediate response to abrupt elevation of temperature. <i>Plant Physiology</i> , 2000 , 123, 1525-36	6.6	127
349	Regulation of root greening by light and auxin/cytokinin signaling in Arabidopsis. <i>Plant Cell</i> , 2012 , 24, 1081-95	11.6	125
348	Photoprotection of photosystems in fluctuating light intensities. <i>Journal of Experimental Botany</i> , 2015 , 66, 2427-36	7	124
347	Proteolytic activities and proteases of plant chloroplasts. <i>Physiologia Plantarum</i> , 1997 , 100, 780-793	4.6	124
346	Light regulation of CaS, a novel phosphoprotein in the thylakoid membrane of Arabidopsis thaliana. <i>FEBS Journal</i> , 2008 , 275, 1767-77	5.7	121
345	Degradation of the D1- and D2-proteins of photosystem II in higher plants is regulated by reversible phosphorylation. <i>Biochemistry</i> , 1995 , 34, 16022-9	3.2	121
344	Comparative metagenomics of microbial traits within oceanic viral communities. <i>ISME Journal</i> , 2011 , 5, 1178-90	11.9	119
343	Nano-sized manganese oxides as biomimetic catalysts for water oxidation in artificial photosynthesis: a review. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 2383-95	4.1	116
342	Flavodiiron proteins in oxygenic photosynthetic organisms: photoprotection of photosystem II by Flv2 and Flv4 in <i>Synechocystis</i> sp. PCC 6803. <i>PLoS ONE</i> , 2009 , 4, e5331	3.7	112
341	Regulation of the photosynthetic apparatus under fluctuating growth light. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 3486-93	5.8	111
340	Light has a specific role in modulating Arabidopsis gene expression at low temperature. <i>BMC Plant Biology</i> , 2008 , 8, 13	5.3	111
339	Protein assembly of photosystem II and accumulation of subcomplexes in the absence of low molecular mass subunits PsbL and PsbJ. <i>FEBS Journal</i> , 2004 , 271, 96-107		108
338	Operon flv4-flv2 provides cyanobacterial photosystem II with flexibility of electron transfer. <i>Plant Cell</i> , 2012 , 24, 1952-71	11.6	106
337	Recovery from Photoinhibition in Peas (<i>Pisum sativum</i> L.) Acclimated to Varying Growth Irradiances (Role of D1 Protein Turnover). <i>Plant Physiology</i> , 1994 , 104, 1033-1041	6.6	106
336	Auxiliary proteins involved in the assembly and sustenance of photosystem II. <i>Photosynthesis Research</i> , 2008 , 98, 489-501	3.7	105
335	Dimeric and monomeric organization of photosystem II. Distribution of five distinct complexes in the different domains of the thylakoid membrane. <i>Journal of Biological Chemistry</i> , 2006 , 281, 14241-9	5.4	105

334	Towards a critical understanding of the photosystem II repair mechanism and its regulation during stress conditions. <i>FEBS Letters</i> , 2013 , 587, 3372-81	3.8	104
333	Increase in the quantum yield of photoinhibition contributes to copper toxicity in vivo. <i>Plant Physiology</i> , 1998 , 117, 619-27	6.6	104
332	Flavodiiron proteins act as safety valve for electrons in <i>Physcomitrella patens</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12322-12327	11.5	103
331	Requirement of phosphatidylglycerol for maintenance of photosynthetic machinery. <i>Plant Physiology</i> , 2003 , 133, 1376-84	6.6	103
330	Cyanobacterial Oxygenic Photosynthesis is Protected by Flavodiiron Proteins. <i>Life</i> , 2015 , 5, 716-43	3	102
329	Multiple strategies to prevent oxidative stress in <i>Arabidopsis</i> plants lacking the malate valve enzyme NADP-malate dehydrogenase. <i>Journal of Experimental Botany</i> , 2012 , 63, 1445-59	7	102
328	The thylakoid membrane proteome of two marine diatoms outlines both diatom-specific and species-specific features of the photosynthetic machinery. <i>Journal of Proteome Research</i> , 2011 , 10, 5338-53	5.6	102
327	Role of phosphorylation in the repair cycle and oligomeric structure of photosystem II. <i>Planta</i> , 1999 , 208, 196-204	4.7	101
326	Photodamage of iron-sulphur clusters in photosystem I induces non-photochemical energy dissipation. <i>Nature Plants</i> , 2016 , 2, 16035	11.5	99
325	Redox regulation of thylakoid protein phosphorylation. <i>Antioxidants and Redox Signaling</i> , 2003 , 5, 55-67	8.4	99
324	Interplay between flavodiiron proteins and photorespiration in <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 2011 , 286, 24007-14	5.4	98
323	PsbR, a missing link in the assembly of the oxygen-evolving complex of plant photosystem II. <i>Journal of Biological Chemistry</i> , 2006 , 281, 145-50	5.4	98
322	Mechanisms of Photodamage and Protein Turnover in Photoinhibition. <i>Trends in Plant Science</i> , 2018 , 23, 667-676	13.1	97
321	Proteomic profiles of thylakoid membranes and changes in response to iron deficiency. <i>Photosynthesis Research</i> , 2006 , 89, 141-55	3.7	92
320	Depletion of the photosystem II core complex in mature tobacco leaves infected by the flavum strain of tobacco mosaic virus. <i>Molecular Plant-Microbe Interactions</i> , 2003 , 16, 1135-44	3.6	91
319	Coregulation of light-harvesting complex II phosphorylation and lhcb mRNA accumulation in winter rye. <i>Plant Journal</i> , 2001 , 26, 317-27	6.9	88
318	Cyanobacterial psbA gene family: optimization of oxygenic photosynthesis. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 3697-710	10.3	87
317	AtCYP38 ensures early biogenesis, correct assembly and sustenance of photosystem II. <i>Plant Journal</i> , 2008 , 55, 639-51	6.9	87

316	Membrane lipid unsaturation modulates processing of the photosystem II reaction-center protein D1 at low temperatures. <i>Plant Physiology</i> , 1997 , 114, 841-9	6.6	86
315	Alternative electron transport mediated by flavodiiron proteins is operational in organisms from cyanobacteria up to gymnosperms. <i>New Phytologist</i> , 2017 , 214, 967-972	9.8	85
314	Rubisco activase: an enzyme with a temperature-dependent dual function?. <i>Plant Journal</i> , 2001 , 25, 463-471	7.1	85
313	PGR5-PGRL1-Dependent Cyclic Electron Transport Modulates Linear Electron Transport Rate in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2016 , 9, 271-288	14.4	84
312	Regulation of translation elongation in cyanobacteria: membrane targeting of the ribosome nascent-chain complexes controls the synthesis of D1 protein. <i>Molecular Microbiology</i> , 2001 , 40, 476-84	4.1	82
311	Electron flow from PSII to PSI under high light is controlled by PGR5 but not by PSBS. <i>Frontiers in Plant Science</i> , 2015 , 6, 521	6.2	81
310	Structural and functional characterization of ferredoxin-NADP ⁺ -oxidoreductase using knock-out mutants of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2007 , 49, 1041-52	6.9	81
309	TLP18.3, a novel thylakoid lumen protein regulating photosystem II repair cycle. <i>Biochemical Journal</i> , 2007 , 406, 415-25	3.8	81
308	A SecY homologue is involved in chloroplast-encoded D1 protein biogenesis. <i>Journal of Biological Chemistry</i> , 2001 , 276, 37809-14	5.4	81
307	Synthesis, membrane insertion and assembly of the chloroplast-encoded D1 protein into photosystem II. <i>FEBS Letters</i> , 2002 , 512, 13-8	3.8	81
306	Light-harvesting II antenna trimers connect energetically the entire photosynthetic machinery - including both photosystems II and I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 607-19	4.6	80
305	Phosphorylation-dependent regulation of excitation energy distribution between the two photosystems in higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 425-32	4.6	80
304	Novel insights into plant light-harvesting complex II phosphorylation and 'state transitions'. <i>Trends in Plant Science</i> , 2011 , 16, 126-31	13.1	79
303	Identification of NdhL and Ssl1690 (NdhO) in NDH-1L and NDH-1M complexes of <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 2005 , 280, 2587-95	5.4	79
302	Isolation, subunit composition and interaction of the NDH-1 complexes from <i>Thermosynechococcus elongatus</i> BP-1. <i>Biochemical Journal</i> , 2005 , 390, 513-20	3.8	76
301	<i>Arabidopsis</i> plants lacking PsbQ and PsbR subunits of the oxygen-evolving complex show altered PSII super-complex organization and short-term adaptive mechanisms. <i>Plant Journal</i> , 2013 , 75, 671-84	6.9	75
300	Drought stress-induced upregulation of components involved in ferredoxin-dependent cyclic electron transfer. <i>Journal of Plant Physiology</i> , 2010 , 167, 1018-22	3.6	75
299	Cyanobacterial NDH-1 complexes: multiplicity in function and subunit composition. <i>Physiologia Plantarum</i> , 2007 , 131, 22-32	4.6	75

298	ATP and light regulate D1 protein modification and degradation. Role of D1* in photoinhibition. <i>FEBS Letters</i> , 1992 , 297, 29-33	3.8	75
297	Enhancing power density of biophotovoltaics by decoupling storage and power delivery. <i>Nature Energy</i> , 2018 , 3, 75-81	62.3	73
296	Slow degradation of the d1 protein is related to the susceptibility of low-light-grown pumpkin plants to photoinhibition. <i>Plant Physiology</i> , 1992 , 100, 1310-7	6.6	73
295	State transitions revisited-a buffering system for dynamic low light acclimation of Arabidopsis. <i>Plant Molecular Biology</i> , 2006 , 62, 779-93	4.6	71
294	The redox state of the plastoquinone pool controls the level of the light-harvesting chlorophyll a/b binding protein complex II (LHC II) during photoacclimation. <i>Photosynthesis Research</i> , 2001 , 68, 163-74	3.7	71
293	Flavodiiron protein Flv2/Flv4-related photoprotective mechanism dissipates excitation pressure of PSII in cooperation with phycobilisomes in Cyanobacteria. <i>Plant Physiology</i> , 2014 , 164, 805-18	6.6	70
292	Positive regulation of psbA gene expression by cis-encoded antisense RNAs in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2012 , 160, 1000-10	6.6	70
291	Genetic Enhancement of the Ability to Tolerate Photoinhibition by Introduction of Unsaturated Bonds into Membrane Glycerolipids. <i>Plant Physiology</i> , 1997 , 115, 551-559	6.6	69
290	Identification of novel Ssl0352 protein (NdhS), essential for efficient operation of cyclic electron transport around photosystem I, in NADPH:plastoquinone oxidoreductase (NDH-1) complexes of <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36992-7001	5.4	68
289	Hunting the main player enabling <i>Chlamydomonas reinhardtii</i> growth under fluctuating light. <i>Plant Journal</i> , 2018 , 94, 822-835	6.9	67
288	Synthesis and assembly of the D1 protein into photosystem II: processing of the C-terminus and identification of the initial assembly partners and complexes during photosystem II repair. <i>Biochemistry</i> , 1997 , 36, 6178-86	3.2	66
287	Thylakoid protein phosphorylation in evolutionally divergent species with oxygenic photosynthesis. <i>FEBS Letters</i> , 1998 , 423, 178-82	3.8	66
286	Expression, assembly and auxiliary functions of photosystem II oxygen-evolving proteins in higher plants. <i>Photosynthesis Research</i> , 2007 , 93, 89-100	3.7	66
285	Towards characterization of the chloroplast NAD(P)H dehydrogenase complex. <i>Molecular Plant</i> , 2009 , 2, 1127-40	14.4	65
284	Expression of protein complexes and individual proteins upon transition of etioplasts to chloroplasts in pea (<i>Pisum sativum</i>). <i>Plant and Cell Physiology</i> , 2008 , 49, 396-410	4.9	65
283	The antisense RNA As1_flv4 in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 prevents premature expression of the flv4-2 operon upon shift in inorganic carbon supply. <i>Journal of Biological Chemistry</i> , 2012 , 287, 33153-62	5.4	64
282	Regulatory subunit B'gamma of protein phosphatase 2A prevents unnecessary defense reactions under low light in Arabidopsis. <i>Plant Physiology</i> , 2011 , 156, 1464-80	6.6	63
281	Chloroplast transcription at different light intensities. Glutathione-mediated phosphorylation of the major RNA polymerase involved in redox-regulated organellar gene expression. <i>Plant Physiology</i> , 2001 , 127, 1044-52	6.6	63

280	Plants Actively Avoid State Transitions upon Changes in Light Intensity: Role of Light-Harvesting Complex II Protein Dephosphorylation in High Light. <i>Plant Physiology</i> , 2015 , 168, 721-34	6.6	62
279	Photosynthetic light reactions: integral to chloroplast retrograde signalling. <i>Current Opinion in Plant Biology</i> , 2015 , 27, 180-91	9.9	62
278	Dynamic changes in the proteome of <i>Synechocystis</i> 6803 in response to CO ₂ limitation revealed by quantitative proteomics. <i>Journal of Proteome Research</i> , 2010 , 9, 5896-912	5.6	62
277	Modulation of photosynthetic electron transport in the absence of terminal electron acceptors: characterization of the <i>rbcl</i> deletion mutant of tobacco. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005 , 1709, 69-83	4.6	62
276	Regulation of D1-protein degradation during photoinhibition of photosystem II in vivo: Phosphorylation of the D1 protein in various plant groups. <i>Planta</i> , 1995 , 195, 379	4.7	62
275	<i>Arabidopsis</i> RCD1 coordinates chloroplast and mitochondrial functions through interaction with ANAC transcription factors. <i>ELife</i> , 2019 , 8,	8.9	62
274	Functional flexibility and acclimation of the thylakoid membrane. <i>Photochemical and Photobiological Sciences</i> , 2005 , 4, 1072-80	4.2	61
273	D1 protein degradation during photoinhibition of intact leaves. A modification of the D1 protein precedes degradation. <i>FEBS Letters</i> , 1991 , 290, 153-6	3.8	61
272	Small chloroplast-targeted DnaJ proteins are involved in optimization of photosynthetic reactions in <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2010 , 10, 43	5.3	60
271	Degradation pattern of photosystem II reaction center protein D1 in intact leaves. The major photoinhibition-induced cleavage site in D1 polypeptide is located amino terminally of the DE loop. <i>Plant Physiology</i> , 1996 , 111, 1183-90	6.6	57
270	Acclimation of Oxygenic Photosynthesis to Iron Starvation Is Controlled by the sRNA <i>IsaR1</i> . <i>Current Biology</i> , 2017 , 27, 1425-1436.e7	6.3	56
269	Transcriptional and translational adjustments of <i>psbA</i> gene expression in mature chloroplasts during photoinhibition and subsequent repair of photosystem II. <i>FEBS Journal</i> , 1997 , 247, 441-8		55
268	Understanding the roles of the thylakoid lumen in photosynthesis regulation. <i>Frontiers in Plant Science</i> , 2013 , 4, 434	6.2	54
267	Comparative analysis of leaf-type ferredoxin-NADP oxidoreductase isoforms in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2009 , 57, 1103-15	6.9	54
266	Kinetic resolution of the incorporation of the D1 protein into photosystem II and localization of assembly intermediates in thylakoid membranes of spinach chloroplasts. <i>Journal of Biological Chemistry</i> , 1996 , 271, 9627-36	5.4	54
265	Changes of amino acid sequence in PEST-like area and QEEET motif affect degradation rate of D1 polypeptide in photosystem II. <i>Plant Molecular Biology</i> , 1994 , 25, 517-26	4.6	54
264	Purification and characterization of photosystem I complex from <i>Synechocystis</i> sp. PCC 6803 by expressing histidine-tagged subunits. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 98-105	4.6	53
263	A previously found thylakoid membrane protein of 14kDa (TMP14) is a novel subunit of plant photosystem I and is designated PSI-P. <i>FEBS Letters</i> , 2005 , 579, 4808-12	3.8	53

262	Thylakoid protein phosphorylation and the thiol redox state. <i>Biochemistry</i> , 1999 , 38, 3197-204	3.2	53
261	Low unsaturation level of thylakoid membrane lipids limits turnover of the D1 protein of photosystem II at high irradiance. <i>FEBS Letters</i> , 1995 , 364, 239-42	3.8	53
260	Light acclimation involves dynamic re-organization of the pigment-protein megacomplexes in non-appressed thylakoid domains. <i>Plant Journal</i> , 2015 , 84, 360-73	6.9	52
259	Structural characterization of NDH-1 complexes of <i>Thermosynechococcus elongatus</i> by single particle electron microscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006 , 1757, 1469-75	4.6	52
258	Damage Management in Water-Oxidizing Catalysts: From Photosystem II to Nanosized Metal Oxides. <i>ACS Catalysis</i> , 2015 , 5, 1499-1512	13.1	51
257	Very rapid phosphorylation kinetics suggest a unique role for Lhcb2 during state transitions in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013 , 76, 236-46	6.9	50
256	Extended H ₂ photoproduction by N ₂ -fixing cyanobacteria immobilized in thin alginate films. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 151-161	6.7	49
255	Mutagenesis of the D-E loop of photosystem II reaction centre protein D1. Function and assembly of photosystem II. <i>Plant Molecular Biology</i> , 1997 , 33, 1059-71	4.6	49
254	Novel nuclear-encoded subunits of the chloroplast NAD(P)H dehydrogenase complex. <i>Journal of Biological Chemistry</i> , 2009 , 284, 905-12	5.4	48
253	Transcription of a "silent" cyanobacterial psbA gene is induced by microaerobic conditions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 105-12	4.6	47
252	Deletion of the tobacco plastid psbA gene triggers an upregulation of the thylakoid-associated NAD(P)H dehydrogenase complex and the plastid terminal oxidase (PTOX). <i>Plant Journal</i> , 2003 , 35, 704-16	6.9	47
251	Action spectrum of psbA gene transcription is similar to that of photoinhibition in <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Letters</i> , 2002 , 516, 167-71	3.8	47
250	Stepwise photoinhibition of photosystem II. Studies with <i>Synechocystis</i> species PCC 6803 mutants with a modified D-E loop of the reaction center polypeptide D1. <i>Plant Physiology</i> , 1998 , 117, 483-90	6.6	47
249	In vitro synthesis and assembly of photosystem II core proteins. The D1 protein can be incorporated into photosystem II in isolated chloroplasts and thylakoids. <i>Journal of Biological Chemistry</i> , 1995 , 270, 25685-95	5.4	47
248	Restoration of light induced photosystem II inhibition without de novo protein synthesis. <i>FEBS Letters</i> , 1990 , 267, 203-6	3.8	46
247	A new approach for sustained and efficient H ₂ photoproduction by <i>Chlamydomonas reinhardtii</i> . <i>Energy and Environmental Science</i> , 2018 , 11, 1431-1436	35.4	45
246	Physiological tolerance and stoichiometric potential of cyanobacteria for hydrocarbon fuel production. <i>Journal of Biotechnology</i> , 2012 , 162, 67-74	3.7	45
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