

# Eva-mari Aro

## List of Publications by Year in descending order

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370  
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26,030  
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9730

139  
g-index

413  
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413  
docs citations

413  
times ranked

15746  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinhibition of Photosystem II. Inactivation, protein damage and turnover. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1143, 113-134.	1.6	2,098
2	Manganese Compounds as Water-Oxidizing Catalysts: From the Natural Water-Oxidizing Complex to Nanosized Manganese Oxide Structures. <i>Chemical Reviews</i> , 2016, 116, 2886-2936.	50.5	570
3	PROTON GRADIENT REGULATION5 Is Essential for Proper Acclimation of <i>Arabidopsis</i> Photosystem I to Naturally and Artificially Fluctuating Light Conditions. <i>Plant Cell</i> , 2012, 24, 2934-2948.	6.7	442
4	Dynamics of photosystem II: a proteomic approach to thylakoid protein complexes. <i>Journal of Experimental Botany</i> , 2004, 56, 347-356.	4.9	437
5	Photosynthesis, photorespiration, and light signalling in defence responses. <i>Journal of Experimental Botany</i> , 2012, 63, 1619-1636.	4.9	340
6	Excess Copper Predisposes Photosystem II to Photoinhibition in Vivo by Outcompeting Iron and Causing Decrease in Leaf Chlorophyll. <i>Plant Physiology</i> , 2002, 129, 1359-1367.	5.0	305
7	Photosystem II photoinhibition-repair cycle protects Photosystem I from irreversible damage. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 210-215.	1.6	304
8	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, 4111-4116.	7.5	301
9	From first generation biofuels to advanced solar biofuels. <i>Ambio</i> , 2016, 45, 24-31.	5.7	285
10	Optimized native gel systems for separation of thylakoid protein complexes: novel super- and mega-complexes. <i>Biochemical Journal</i> , 2011, 439, 207-214.	3.7	281
11	Photosystem II repair in plant chloroplasts â€” Regulation, assisting proteins and shared components with photosystem II biogenesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 900-909.	1.6	280
12	A novel drought-inducible gene, ATAF1, encodes a NAC family protein that negatively regulates the expression of stress-responsive genes in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2006, 63, 289-305.	3.9	277
13	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, 11644-11649.	7.5	273
14	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, 3646-3660.	6.7	246
15	NDH-1 and NDH-2 Plastoquinone Reductases in Oxygenic Photosynthesis. <i>Annual Review of Plant Biology</i> , 2016, 67, 55-80.	18.9	240
16	Thylakoid Protein Phosphorylation in Higher Plant Chloroplasts Optimizes Electron Transfer under Fluctuating Light Å Å. <i>Plant Physiology</i> , 2010, 152, 723-735.	5.0	237
17	Phosphorylation of Light-harvesting Complex II and Photosystem II Core Proteins Shows Different Irradiance-dependent Regulation in Vivo. <i>Journal of Biological Chemistry</i> , 1997, 272, 30476-30482.	3.5	234
18	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, 3326-3340.	6.7	221

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19	Cyanobacterial NDH-1 complexes: Novel insights and remaining puzzles. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 935-944.	1.6	214
20	Integrative regulatory network of plant thylakoid energy transduction. <i>Trends in Plant Science</i> , 2014, 19, 10-17.	9.0	209
21	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, 247-257.	1.6	203
22	Biogenesis, assembly and turnover of photosystem II units. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 1451-1460.	4.1	198
23	Co-translational Assembly of the D1 Protein into Photosystem II. <i>Journal of Biological Chemistry</i> , 1999, 274, 16062-16067.	3.5	192
24	Core protein phosphorylation facilitates the repair of photodamaged photosystem II at high light. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 1432-1437.	1.6	187
25	Regulation of Root Greening by Light and Auxin/Cytokinin Signaling in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 1081-1095.	6.7	187
26	Mechanisms of Photodamage and Protein Turnover in Photoinhibition. <i>Trends in Plant Science</i> , 2018, 23, 667-676.	9.0	187
27	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, 315-326.	2.9	185
28	Thylakoid protein phosphorylation in dynamic regulation of photosystem II in higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 232-238.	1.6	183
29	Differential D1 Dephosphorylation in Functional and Photodamaged Photosystem II Centers. <i>Journal of Biological Chemistry</i> , 1996, 271, 14870-14875.	3.5	179
30	Photoprotection of photosystems in fluctuating light intensities. <i>Journal of Experimental Botany</i> , 2015, 66, 2427-2436.	4.9	176
31	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.	1.6	173
32	Synthesis and assembly of thylakoid protein complexes: multiple assembly steps of photosystem II. <i>Biochemical Journal</i> , 2005, 388, 159-168.	3.7	171
33	Structure of the Chloroplast NADH Dehydrogenase-Like Complex: Nomenclature for Nuclear-Encoded Subunits. <i>Plant and Cell Physiology</i> , 2011, 52, 1560-1568.	3.1	170
34	Towards Functional Proteomics of Membrane Protein Complexes in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2004, 134, 470-481.	5.0	168
35	Steady-State Phosphorylation of Light-Harvesting Complex II Proteins Preserves Photosystem I under Fluctuating White Light. <i>Plant Physiology</i> , 2012, 160, 1896-1910.	5.0	163
36	Biogenesis of the Chloroplast-Encoded D1 Protein: Regulation of Translation Elongation, Insertion, and Assembly into Photosystem II. <i>Plant Cell</i> , 2000, 12, 1769-1781.	6.7	160

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37	Diverse roles for chloroplast stromal and thylakoid-bound ascorbate peroxidases in plant stress responses. <i>Biochemical Journal</i> , 2008, 412, 275-285.	3.7	160
38	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.	7.5	159
39	Chloroplast-mediated regulation of nuclear genes in <i>Arabidopsis thaliana</i> in the absence of light stress. <i>Physiological Genomics</i> , 2006, 25, 142-152.	2.2	155
40	Light has a specific role in modulating <i>Arabidopsis</i> gene expression at low temperature. <i>BMC Plant Biology</i> , 2008, 8, 13.	3.6	151
41	Regulation of the photosynthetic apparatus under fluctuating growth light. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3486-3493.	4.1	142
42	Photodamage of iron-sulphur clusters in photosystem I induces non-photochemical energy dissipation. <i>Nature Plants</i> , 2016, 2, 16035.	9.3	141
43	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, 1525-1536.	5.0	138
44	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.	2.5	138
45	Comparative metagenomics of microbial traits within oceanic viral communities. <i>ISME Journal</i> , 2011, 5, 1178-1190.	9.9	136
46	Degradation of the D1- and D2-Proteins of Photosystem II in Higher Plants Is Regulated by Reversible Phosphorylation. <i>Biochemistry</i> , 1995, 34, 16022-16029.	2.6	135
47	Operon <i>flv4-flv2</i> Provides Cyanobacterial Photosystem II with Flexibility of Electron Transfer. <i>Plant Cell</i> , 2012, 24, 1952-1971.	6.7	135
48	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, 1445-1459.	4.9	131
49	Proteolytic activities and proteases of plant chloroplasts. <i>Physiologia Plantarum</i> , 1997, 100, 780-793.	5.3	129
50	Cyanobacterial Oxygenic Photosynthesis is Protected by Flavodiiron Proteins. <i>Life</i> , 2015, 5, 716-743.	2.5	129
51	Alternative electron transport mediated by flavodiiron proteins is operational in organisms from cyanobacteria up to gymnosperms. <i>New Phytologist</i> , 2017, 214, 967-972.	7.8	129
52	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, 2383-2395.	3.4	128
53	PGR5-PGRL1-Dependent Cyclic Electron Transport Modulates Linear Electron Transport Rate in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2016, 9, 271-288.	8.4	127
54	PsbR, a Missing Link in the Assembly of the Oxygen-evolving Complex of Plant Photosystem II. <i>Journal of Biological Chemistry</i> , 2006, 281, 145-150.	3.5	122

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55	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, 5338-5353.	3.8	122
56	Increase in the Quantum Yield of Photoinhibition Contributes to Copper Toxicity in Vivo <sup>1</sup> . <i>Plant Physiology</i> , 1998, 117, 619-627.	5.0	118
57	Requirement of Phosphatidylglycerol for Maintenance of Photosynthetic Machinery. <i>Plant Physiology</i> , 2003, 133, 1376-1384.	5.0	118
58	Dimeric and Monomeric Organization of Photosystem II. <i>Journal of Biological Chemistry</i> , 2006, 281, 14241-14249.	3.5	118
59	Auxiliary proteins involved in the assembly and sustenance of photosystem II. <i>Photosynthesis Research</i> , 2008, 98, 489-501.	2.9	117
60	Interplay between Flavodiiron Proteins and Photorespiration in <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 2011, 286, 24007-24014.	3.5	115
61	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, 607-619.	1.6	115
62	Cyanobacterial psbA gene family: optimization of oxygenic photosynthesis. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 3697-3710.	5.4	114
63	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.	3.7	114
64	Role of phosphorylation in the repair cycle and oligomeric structure of photosystem II. <i>Planta</i> , 1999, 208, 196-204.	3.2	112
65	Redox Regulation of Thylakoid Protein Phosphorylation. <i>Antioxidants and Redox Signaling</i> , 2003, 5, 55-67.	5.4	112
66	Enhancing power density of biophotovoltaics by decoupling storage and power delivery. <i>Nature Energy</i> , 2018, 3, 75-81.	29.4	110
67	AtCYP38 ensures early biogenesis, correct assembly and sustenance of photosystem II. <i>Plant Journal</i> , 2008, 55, 639-651.	5.9	109
68	Arabidopsis plants lacking PsbQ and PsbR subunits of the oxygen-evolving complex show altered <scp>PSII</scp> superá€complex organization and shortá€term adaptive mechanisms. <i>Plant Journal</i> , 2013, 75, 671-684.	5.9	106
69	Hunting the main player enabling <i>Chlamydomonas reinhardtii</i> growth under fluctuating light. <i>Plant Journal</i> , 2018, 94, 822-835.	5.9	106
70	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, 1135-1144.	2.8	105
71	Rubisco activase: an enzyme with a temperature-dependent dual function?. <i>Plant Journal</i> , 2001, 25, 463-471.	5.9	103
72	TLP18.3, a novel thylakoid lumen protein regulating photosystem II repair cycle. <i>Biochemical Journal</i> , 2007, 406, 415-425.	3.7	101

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73	Proteomic profiles of thylakoid membranes and changes in response to iron deficiency. <i>Photosynthesis Research</i> , 2006, 89, 141-155.	2.9	98
74	Phosphorylation-dependent regulation of excitation energy distribution between the two photosystems in higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 425-432.	1.6	98
75	Drought stress-induced upregulation of components involved in ferredoxin-dependent cyclic electron transfer. <i>Journal of Plant Physiology</i> , 2010, 167, 1018-1022.	3.8	95
76	Positive Regulation of <i>psbA</i> Gene Expression by cis-Encoded Antisense RNAs in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2012, 160, 1000-1010.	5.0	95
77	Coregulation of light-harvesting complex II phosphorylation and lhcb mRNA accumulation in winter rye. <i>Plant Journal</i> , 2001, 26, 317-327.	5.9	94
78	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, 476-484.	2.5	93
79	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.	1.6	92
80	Novel insights into plant light-harvesting complex II phosphorylation and $\tilde{S}$ state transitions. <i>Trends in Plant Science</i> , 2011, 16, 126-131.	9.0	91
81	Structural and functional characterization of ferredoxin-NADP <sup>+</sup> -oxidoreductase using knock-out mutants of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2007, 49, 1041-1052.	5.9	90
82	State transitions revisited—a buffering system for dynamic low light acclimation of <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2006, 62, 779-93.	3.9	89
83	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, 721-734.	5.0	89
84	A SecY Homologue Is Involved in Chloroplast-encoded D1 Protein Biogenesis. <i>Journal of Biological Chemistry</i> , 2001, 276, 37809-37814.	3.5	87
85	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, 2587-2595.	3.5	86
86	Regulatory Subunit B $\epsilon$ of Protein Phosphatase 2A Prevents Unnecessary Defense Reactions under Low Light in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 156, 1464-1480.	5.0	86
87	Cyanobacterial NDH-1 complexes: multiplicity in function and subunit composition. <i>Physiologia Plantarum</i> , 2007, 131, 22-32.	5.3	85
88	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.	3.6	85
89	Towards Characterization of the Chloroplast NAD(P)H Dehydrogenase Complex. <i>Molecular Plant</i> , 2009, 2, 1127-1140.	8.4	84
90	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, 163-174.	2.9	83

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91	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, 33153-33162.	3.5	82
92	Isolation, subunit composition and interaction of the NDH-1 complexes from <i>Thermosynechococcus elongatus</i> BP-1. <i>Biochemical Journal</i> , 2005, 390, 513-520.	3.7	80
93	The NDH-1L-PSI Supercomplex Is Important for Efficient Cyclic Electron Transport in Cyanobacteria. <i>Plant Physiology</i> , 2016, 172, 1451-1464.	5.0	80
94	A new approach for sustained and efficient H <sub>2</sub> photoproduction by <i>Chlamydomonas reinhardtii</i> . <i>Energy and Environmental Science</i> , 2018, 11, 1431-1436.	31.9	80
95	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, 1310-1317.	5.0	79
96	Photosynthetic light reactions: integral to chloroplast retrograde signalling. <i>Current Opinion in Plant Biology</i> , 2015, 27, 180-191.	7.3	79
97	Acclimation of Oxygenic Photosynthesis to Iron Starvation Is Controlled by the sRNA IsaR1. <i>Current Biology</i> , 2017, 27, 1425-1436.e7.	4.0	79
98	Flavodiiron Protein Flv2/Flv4-Related Photoprotective Mechanism Dissipates Excitation Pressure of PSII in Cooperation with Phycobilisomes in Cyanobacteria. <i>Plant Physiology</i> , 2014, 164, 805-818.	5.0	78
99	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.	3.1	74
100	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.	3.2	73
101	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, 6178-6186.	2.6	71
102	Light acclimation involves dynamic reorganization of the pigment-protein megacomplexes in nonappressed thylakoid domains. <i>Plant Journal</i> , 2015, 84, 360-373.	5.9	71
103	Expression, assembly and auxiliary functions of photosystem II oxygen-evolving proteins in higher plants. <i>Photosynthesis Research</i> , 2007, 93, 89-100.	2.9	70
104	Dynamic Changes in the Proteome of <i>Synechocystis</i> 6803 in Response to CO <sub>2</sub> Limitation Revealed by Quantitative Proteomics. <i>Journal of Proteome Research</i> , 2010, 9, 5896-5912.	3.8	70
105	Understanding the roles of the thylakoid lumen in photosynthesis regulation. <i>Frontiers in Plant Science</i> , 2013, 4, 434.	3.7	70
106	Functional flexibility and acclimation of the thylakoid membrane. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1072.	2.9	66
107	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, 1044-1052.	5.0	65
108	Very rapid phosphorylation kinetics suggest a unique role for <i>hcb2</i> during state transitions in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013, 76, 236-246.	5.9	64

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109	Nonsingular isogeometric boundary element method for Stokes flows in 3D. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 268, 514-539.	6.7	64
110	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, 9627-9636.	3.5	63
111	Regulation of cyclic electron flow by chloroplast $\text{NADPH}^+$ -dependent thioredoxin system. <i>Plant Direct</i> , 2018, 2, e00093.	2.0	63
112	Flavodiiron proteins $\text{F}_4$ function in versatile combinations in $\text{O}_2$ photoreduction in cyanobacteria. <i>ELife</i> , 2019, 8, .	5.9	63
113	Composition, phosphorylation and dynamic organization of photosynthetic protein complexes in plant thylakoid membrane. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 604-619.	2.9	62
114	Photosystem II damage induced by chemically generated singlet oxygen in tobacco leaves. <i>Physiologia Plantarum</i> , 2007, 131, 33-40.	5.3	59
115	Inhibitory effects of polycyclic aromatic hydrocarbons (PAHs) on photosynthetic performance are not related to their aromaticity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 137, 151-155.	3.9	59
116	Damage Management in Water-Oxidizing Catalysts: From Photosystem II to Nanosized Metal Oxides. <i>ACS Catalysis</i> , 2015, 5, 1499-1512.	11.5	59
117	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.	1.6	58
118	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, 517-526.	3.9	57
119	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, 1059-1071.	3.9	57
120	Comparative analysis of leaf-type ferredoxin-NADP <sup>+</sup> oxidoreductase isoforms in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2009, 57, 1103-1115.	5.9	57
121	Extended $\text{H}_2$ photoproduction by $\text{N}_2$ -fixing cyanobacteria immobilized in thin alginate films. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 151-161.	7.1	57
122	Heterocyst-specific flavodiiron protein Flv3B enables oxic diazotrophic growth of the filamentous cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11205-11210.	7.5	57
123	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, 1469-1475.	1.6	56
124	The role of low soil temperature in the inhibition of growth and PSII function during dark chilling in soybean genotypes of contrasting tolerance. <i>Physiologia Plantarum</i> , 2007, 131, 89-105.	5.3	56
125	Novel Nuclear-encoded Subunits of the Chloroplast NAD(P)H Dehydrogenase Complex. <i>Journal of Biological Chemistry</i> , 2009, 284, 905-912.	3.5	55
126	Transcription of a $\sigma$ -silent cyanobacterial <i>psbA</i> gene is induced by microaerobic conditions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 105-112.	1.6	55

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127	Cyanobacterial Light-Harvesting Phycobilisomes Uncouple From Photosystem I During Dark-To-Light Transitions. <i>Scientific Reports</i> , 2015, 5, 14193.	3.4	55
128	Photoinhibition of Photosystem I Provides Oxidative Protection During Imbalanced Photosynthetic Electron Transport in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 916.	3.7	55
129	Photodamage and D1 Protein Turnover in Photosystem II. , 2001, , 377-393.		54
130	Adjustment of photosynthetic activity to drought and fluctuating light in wheat. <i>Plant, Cell and Environment</i> , 2020, 43, 1484-1500.	6.0	54
131	In Vitro Synthesis and Assembly of Photosystem II Core Proteins. <i>Journal of Biological Chemistry</i> , 1995, 270, 25685-25695.	3.5	53
132	Thylakoid Protein Phosphorylation and the Thiol Redox State. <i>Biochemistry</i> , 1999, 38, 3197-3204.	2.6	53
133	Physiological tolerance and stoichiometric potential of cyanobacteria for hydrocarbon fuel production. <i>Journal of Biotechnology</i> , 2012, 162, 67-74.	3.9	52
134	Transcriptomic and Proteomic Profiling of <i>Anabaena</i> sp. Strain 90 under Inorganic Phosphorus Stress. <i>Applied and Environmental Microbiology</i> , 2015, 81, 5212-5222.	3.2	52
135	Translation efficiency of heterologous proteins is significantly affected by the genetic context of RBS sequences in engineered cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Microbial Cell Factories</i> , 2018, 17, 34.	4.1	52
136	Rapid turnover of the D1 reaction-center protein of photosystem II as a protection mechanism against photoinhibition in a moss, <i>Ceratodon purpureus</i> (Hedw.) Brid.. <i>Planta</i> , 1994, 193, 520-529.	3.2	51
137	Screening native isolates of cyanobacteria and a green alga for integrated wastewater treatment, biomass accumulation and neutral lipid production. <i>Algal Research</i> , 2015, 11, 411-420.	4.6	51
138	Stepwise Photoinhibition of Photosystem II. <i>Plant Physiology</i> , 1998, 117, 483-490.	5.0	50
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