

# Suleyman I Allakhverdiev

## List of Publications by Citations

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251  
papers

14,981  
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63  
h-index

116  
g-index

289  
ext. papers

17,629  
ext. citations

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avg, IF

6.75  
L-index

#	Paper	IF	Citations
251	Photoinhibition of photosystem II under environmental stress. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2007</b> , 1767, 414-21	4.6	952
250	Heat stress: an overview of molecular responses in photosynthesis. <i>Photosynthesis Research</i> , <b>2008</b> , 98, 541-50	3.7	613
249	A new paradigm for the action of reactive oxygen species in the photoinhibition of photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2006</b> , 1757, 742-9	4.6	514
248	Manganese Compounds as Water-Oxidizing Catalysts: From the Natural Water-Oxidizing Complex to Nanosized Manganese Oxide Structures. <i>Chemical Reviews</i> , <b>2016</b> , 116, 2886-936	68.1	442
247	Frequently asked questions about in vivo chlorophyll fluorescence: practical issues. <i>Photosynthesis Research</i> , <b>2014</b> , 122, 121-58	3.7	435
246	Ionic and osmotic effects of NaCl-induced inactivation of photosystems I and II in <i>Synechococcus</i> sp. <i>Plant Physiology</i> , <b>2000</b> , 123, 1047-56	6.6	402
245	Oxidative stress inhibits the repair of photodamage to the photosynthetic machinery. <i>EMBO Journal</i> , <b>2001</b> , 20, 5587-94	13	390
244	Biofuel production: Challenges and opportunities. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 8450-8461	6.7	317
243	Environmental stress inhibits the synthesis de novo of proteins involved in the photodamage-repair cycle of Photosystem II in <i>Synechocystis</i> sp. PCC 6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2004</b> , 1657, 23-32	4.6	303
242	Two-step mechanism of photodamage to photosystem II: step 1 occurs at the oxygen-evolving complex and step 2 occurs at the photochemical reaction center. <i>Biochemistry</i> , <b>2005</b> , 44, 8494-9	3.2	282
241	Identification of nutrient deficiency in maize and tomato plants by in vivo chlorophyll a fluorescence measurements. <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 81, 16-25	5.4	246
240	Singlet oxygen inhibits the repair of photosystem II by suppressing the translation elongation of the D1 protein in <i>Synechocystis</i> sp. PCC 6803. <i>Biochemistry</i> , <b>2004</b> , 43, 11321-30	3.2	243
239	Protein synthesis is the primary target of reactive oxygen species in the photoinhibition of photosystem II. <i>Physiologia Plantarum</i> , <b>2011</b> , 142, 35-46	4.6	242
238	Salt stress and hyperosmotic stress regulate the expression of different sets of genes in <i>Synechocystis</i> sp. PCC 6803. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 290, 339-48	3.4	238
237	Hierarchical electrospun nanofibers for energy harvesting, production and environmental remediation. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3192-3222	35.4	227
236	Salt stress inhibits the repair of photodamaged photosystem II by suppressing the transcription and translation of psbA genes in <i>synechocystis</i> . <i>Plant Physiology</i> , <b>2002</b> , 130, 1443-53	6.6	216
235	Photosynthetic electron transport and specific photoprotective responses in wheat leaves under drought stress. <i>Photosynthesis Research</i> , <b>2013</b> , 117, 529-46	3.7	205

234	Review: Biofuel production from plant and algal biomass. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 17257-17273	6.7	204
233	Reactive oxygen species: re-evaluation of generation, monitoring and role in stress-signaling in phototrophic organisms. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2014</b> , 1837, 835-48	4.6	185
232	Three types of Photosystem II photoinactivation : I. Damaging processes on the acceptor side. <i>Photosynthesis Research</i> , <b>1990</b> , 23, 39-48	3.7	174
231	Manganese compounds as water oxidizing catalysts for hydrogen production via water splitting: From manganese complexes to nano-sized manganese oxides. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8753-8764	6.7	171
230	Genetic engineering of the unsaturation of fatty acids in membrane lipids alters the tolerance of <i>Synechocystis</i> to salt stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 5862-7	11.5	170
229	Unsaturated fatty acids in membrane lipids protect the photosynthetic machinery against salt-induced damage in <i>Synechococcus</i> . <i>Plant Physiology</i> , <b>2001</b> , 125, 1842-53	6.6	163
228	Photosystem II thermostability in situ: environmentally induced acclimation and genotype-specific reactions in <i>Triticum aestivum</i> L. <i>Plant Physiology and Biochemistry</i> , <b>2012</b> , 57, 93-105	5.4	152
227	Fluorescence parameters as early indicators of light stress in barley. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2012</b> , 112, 1-6	6.7	151
226	Repetitive light pulse-induced photoinhibition of photosystem I severely affects CO <sub>2</sub> assimilation and photoprotection in wheat leaves. <i>Photosynthesis Research</i> , <b>2015</b> , 126, 449-63	3.7	144
225	The mechanism of photoinhibition in vivo: re-evaluation of the roles of catalase, $\beta$ -carotene, non-photochemical quenching, and electron transport. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 1127-33	4.6	144
224	Variable chlorophyll fluorescence and its use for assessing physiological condition of plant photosynthetic apparatus. <i>Russian Journal of Plant Physiology</i> , <b>2016</b> , 63, 869-893	1.6	142
223	Low PSI content limits the photoprotection of PSI and PSII in early growth stages of chlorophyll b-deficient wheat mutant lines. <i>Photosynthesis Research</i> , <b>2015</b> , 125, 151-66	3.7	139
222	Regulatory role of membrane fluidity in gene expression and physiological functions. <i>Photosynthesis Research</i> , <b>2013</b> , 116, 489-509	3.7	138
221	Water oxidation catalysis by manganese oxides: learning from evolution. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2203	35.4	135
220	Visible light photocatalytic water splitting for hydrogen production from N-TiO <sub>2</sub> rice grain shaped electrospun nanostructures. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8897-8904	6.7	127
219	High temperature specifically affects the photoprotective responses of chlorophyll b-deficient wheat mutant lines. <i>Photosynthesis Research</i> , <b>2016</b> , 130, 251-266	3.7	127
218	Inhibition of the repair of photosystem II by oxidative stress in cyanobacteria. <i>Photosynthesis Research</i> , <b>2005</b> , 84, 1-7	3.7	125
217	Inactivation of photosystems I and II in response to osmotic stress in <i>Synechococcus</i> . Contribution of water channels. <i>Plant Physiology</i> , <b>2000</b> , 122, 1201-8	6.6	124

216	Signaling role of reactive oxygen species in plants under stress. <i>Russian Journal of Plant Physiology</i> , <b>2012</b> , 59, 141-154	1.6	123
215	Systematic analysis of the relation of electron transport and ATP synthesis to the photodamage and repair of photosystem II in <i>Synechocystis</i> . <i>Plant Physiology</i> , <b>2005</b> , 137, 263-73	6.6	122
214	Salt stress inhibits photosystems II and I in cyanobacteria. <i>Photosynthesis Research</i> , <b>2008</b> , 98, 529-39	3.7	119
213	Drought-induced modifications of photosynthetic electron transport in intact leaves: analysis and use of neural networks as a tool for a rapid non-invasive estimation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 1490-8	4.6	118
212	Nano-sized manganese oxides as biomimetic catalysts for water oxidation in artificial photosynthesis: a review. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 2383-95	4.1	116
211	Effect of extraction and re-addition of manganese on light reactions of photosystem- II preparations. <i>FEBS Letters</i> , <b>1982</b> , 148, 307-12	3.8	113
210	Progress and perspectives in micro direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8765-8786	6.7	109
209	Experimental in vivo measurements of light emission in plants: a perspective dedicated to David Walker. <i>Photosynthesis Research</i> , <b>2012</b> , 114, 69-96	3.7	107
208	Hydrogen production from phototrophic microorganisms: Reality and perspectives. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 5799-5811	6.7	97
207	Glycinebetaine protects the D1/D2/Cytb559 complex of photosystem II against photo-induced and heat-induced inactivation. <i>Journal of Plant Physiology</i> , <b>2003</b> , 160, 41-9	3.6	97
206	Analysis of high temperature stress on the dynamics of antenna size and reducing side heterogeneity of Photosystem II in wheat leaves ( <i>Triticum aestivum</i> ). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2011</b> , 1807, 22-9	4.6	89
205	Stress-related hormones and glycinebetaine interplay in protection of photosynthesis under abiotic stress conditions. <i>Photosynthesis Research</i> , <b>2015</b> , 126, 221-35	3.7	86
204	Photosynthetic hydrogen production. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2010</b> , 11, 101-113	16.4	83
203	Glycinebetaine alleviates the inhibitory effect of moderate heat stress on the repair of photosystem II during photoinhibition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2007</b> , 1767, 1363-74	4.6	81
202	Bicarbonate requirement for the donor side of photosystem II. <i>FEBS Letters</i> , <b>1995</b> , 363, 251-5	3.8	80
201	Hydrogen photoproduction by use of photosynthetic organisms and biomimetic systems. <i>Photochemical and Photobiological Sciences</i> , <b>2009</b> , 8, 148-56	4.2	77
200	Biological water oxidation: lessons from nature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 1110-21	4.6	76
199	Redox potential of pheophytin a in photosystem II of two cyanobacteria having the different special pair chlorophylls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 3924-9	11.5	76

198	The photosystem II-associated Cah3 in Chlamydomonas enhances the O <sub>2</sub> evolution rate by proton removal. <i>EMBO Journal</i> , <b>2008</b> , 27, 782-91	13	76
197	Redox potentials of primary electron acceptor quinone molecule (QA)- and conserved energetics of photosystem II in cyanobacteria with chlorophyll a and chlorophyll d. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 8054-8	11.5	75
196	Stabilization of oxygen evolution and primary electron transport reactions in photosystem II against heat stress with glycinebetaine and sucrose. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>1996</b> , 34, 149-57	6.7	74
195	Wheat plant selection for high yields entailed improvement of leaf anatomical and biochemical traits including tolerance to non-optimal temperature conditions. <i>Photosynthesis Research</i> , <b>2018</b> , 136, 245-255	3.7	70
194	Bicarbonate is an essential constituent of the water-oxidizing complex of photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 5050-4	11.5	70
193	In photoinhibited photosystem II particles pheophytin photoreduction remains unimpaired. <i>FEBS Letters</i> , <b>1987</b> , 226, 186-90	3.8	69
192	Application of low temperatures during photoinhibition allows characterization of individual steps in photodamage and the repair of photosystem II. <i>Photosynthesis Research</i> , <b>2007</b> , 94, 217-24	3.7	67
191	Photoinactivation of the reactivation capacity of photosystem II in pea subchloroplast particles after a complete removal of manganese. <i>Photosynthesis Research</i> , <b>1990</b> , 23, 59-65	3.7	66
190	Characterization of photosystem II heterogeneity in response to high salt stress in wheat leaves ( <i>Triticum aestivum</i> ). <i>Photosynthesis Research</i> , <b>2010</b> , 105, 249-55	3.7	65
189	Light-dependent cold-induced fatty acid unsaturation, changes in membrane fluidity, and alterations in gene expression in <i>Synechocystis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 1352-9	4.6	63
188	Evidence for the involvement of cyclic electron transport in the protection of photosystem II against photoinhibition: influence of a new phenolic compound. <i>Biochemistry</i> , <b>1997</b> , 36, 4149-54	3.2	62
187	Photoelectrochemical cells based on photosynthetic systems: a review. <i>Biofuel Research Journal</i> , <b>2015</b> , 2, 227-235	13.9	62
186	Bicarbonate may Be required for ligation of manganese in the oxygen-evolving complex of photosystem II. <i>Biochemistry</i> , <b>1997</b> , 36, 16277-81	3.2	58
185	Bicarbonate protects the donor side of photosystem II against photoinhibition and thermoinactivation. <i>FEBS Letters</i> , <b>1997</b> , 418, 243-6	3.8	54
184	Effect of photosystem I inactivation on chlorophyll a fluorescence induction in wheat leaves: Does activity of photosystem I play any role in OJIP rise?. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2015</b> , 152, 318-24	6.7	53
183	Reduced glutamine synthetase activity plays a role in control of photosynthetic responses to high light in barley leaves. <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 81, 74-83	5.4	51
182	Damage Management in Water-Oxidizing Catalysts: From Photosystem II to Nanosized Metal Oxides. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1499-1512	13.1	51
181	Biological, Chemical, and Electronic Applications of Nanofibers. <i>Macromolecular Materials and Engineering</i> , <b>2013</b> , 298, 822-867	3.9	48

180	Biohybrid solar cells: Fundamentals, progress, and challenges. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2018</b> , 35, 134-156	16.4	47
179	Osmotic shrinkage of cells of <i>Synechocystis</i> sp. PCC 6803 by water efflux via aquaporins regulates osmotic stress-inducible gene expression. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 447-455	2.9	47
178	Plasticity of photosynthetic processes and the accumulation of secondary metabolites in plants in response to monochromatic light environments: A review. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2020</b> , 1861, 148131	4.6	47
177	Identification and functional role of the carbonic anhydrase Cah3 in thylakoid membranes of pyrenoid of <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 1248-55	4.6	44
176	Chlorophylls d and f and Their Role in Primary Photosynthetic Processes of Cyanobacteria. <i>Biochemistry (Moscow)</i> , <b>2016</b> , 81, 201-12	2.9	44
175	Structural basis for the adaptation and function of chlorophyll f in photosystem I. <i>Nature Communications</i> , <b>2020</b> , 11, 238	17.4	43
174	The impact of the phytochromes on photosynthetic processes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2018</b> , 1859, 400-408	4.6	43
173	Photosynthesis supported by a chlorophyll f-dependent, entropy-driven uphill energy transfer in <i>Halomicronema hongdechloris</i> cells adapted to far-red light. <i>Photosynthesis Research</i> , <b>2019</b> , 139, 185-201	3.7	43
172	Nanostructured manganese oxide/carbon nanotubes, graphene and graphene oxide as water-oxidizing composites in artificial photosynthesis. <i>Dalton Transactions</i> , <b>2014</b> , 43, 10866-76	4.3	43
171	Platinum/manganese oxide nanocomposites as water-oxidizing catalysts: New findings and current controversies. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 10825-10832	6.7	42
170	Photosynthetic and biomimetic hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8744-8752	6.7	42
169	A tetranuclear nickel(II) complex for water oxidation: Meeting new challenges. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 2857-2867	6.7	40
168	Non-stomatal limitation of photosynthesis by soil salinity. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2021</b> , 51, 791-825	11.1	40
167	The biological water-oxidizing complex at the nano-bio interface. <i>Trends in Plant Science</i> , <b>2015</b> , 20, 559-68	3.1	39
166	Biological water-oxidizing complex: a nano-sized manganese-calcium oxide in a protein environment. <i>Photosynthesis Research</i> , <b>2012</b> , 114, 1-13	3.7	39
165	Very strong UV-A light temporally separates the photoinhibition of photosystem II into light-induced inactivation and repair. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2006</b> , 1757, 123-9	4.6	39
164	Nano-size layered manganese-calcium oxide as an efficient and biomimetic catalyst for water oxidation under acidic conditions: comparable to platinum. <i>Dalton Transactions</i> , <b>2013</b> , 42, 5085-91	4.3	38
163	Effects of bicarbonate and formate on the donor side of Photosystem 2. <i>Photosynthesis Research</i> , <b>1995</b> , 46, 219-25	3.7	38

162	Extracellular class carbonic anhydrase of the alkaliphilic cyanobacterium <i>Microcoleus chthonoplastes</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2011</b> , 103, 78-86	6.7	37
161	Reconstitution of the water-oxidizing complex in manganese-depleted photosystem II complexes by using synthetic binuclear manganese complexes. <i>Biochemistry</i> , <b>1994</b> , 33, 12210-4	3.2	37
160	Age-dependent changes in the functions and compositions of photosynthetic complexes in the thylakoid membranes of <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , <b>2013</b> , 117, 547-56	3.7	36
159	Transduction mechanisms of photoreceptor signals in plant cells. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2009</b> , 10, 63-80	16.4	36
158	Lettuce flavonoids screening and phenotyping by chlorophyll fluorescence excitation ratio. <i>Planta</i> , <b>2017</b> , 245, 1215-1229	4.7	35
157	An aluminum/cobalt/iron/nickel alloy as a precatalyst for water oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 2083-2090	6.7	35
156	Effects of polyaromatic hydrocarbons on photosystem II activity in pea leaves. <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 81, 135-42	5.4	35
155	Proposed mechanisms for water oxidation by Photosystem II and nanosized manganese oxides. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2017</b> , 1858, 156-174	4.6	34
154	Red and near infra-red signaling: Hypothesis and perspectives. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2012</b> , 13, 190-203	16.4	34
153	Water-oxidizing complex in Photosystem II: Its structure and relation to manganese-oxide based catalysts. <i>Coordination Chemistry Reviews</i> , <b>2020</b> , 409, 213183	23.2	33
152	Genetic decrease in fatty acid unsaturation of phosphatidylglycerol increased photoinhibition of photosystem I at low temperature in tobacco leaves. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 1374-9	4.6	33
151	Heat stress-induced effects of photosystem I: an overview of structural and functional responses. <i>Photosynthesis Research</i> , <b>2017</b> , 133, 17-30	3.7	32
150	Mechanisms of inhibitory effects of polycyclic aromatic hydrocarbons in photosynthetic primary processes in pea leaves and thylakoid preparations. <i>Plant Biology</i> , <b>2017</b> , 19, 683-688	3.7	32
149	Changes in PS II heterogeneity in response to osmotic and ionic stress in wheat leaves ( <i>Triticum aestivum</i> ). <i>Journal of Bioenergetics and Biomembranes</i> , <b>2012</b> , 44, 411-9	3.7	32
148	Analysis of salt stress induced changes in Photosystem II heterogeneity by prompt fluorescence and delayed fluorescence in wheat ( <i>Triticum aestivum</i> ) leaves. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2011</b> , 104, 308-13	6.7	31
147	Effect of preillumination with red light on photosynthetic parameters and oxidant-/antioxidant balance in <i>Arabidopsis thaliana</i> in response to UV-A. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2013</b> , 127, 229-36	6.7	30
146	Photooxidation of alcohols by a porphyrin/quinone/TEMPO system. <i>Photochemical and Photobiological Sciences</i> , <b>2009</b> , 8, 174-80	4.2	28
145	Constitution and energetics of photosystem I and photosystem II in the chlorophyll d-dominated cyanobacterium <i>Acaryochloris marina</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2011</b> , 104, 333-40	6.7	28

144	Photoreduction of pheophytin in photosystem II of the whole cells of green algae and cyanobacteria. <i>Photosynthesis Research</i> , <b>1986</b> , 10, 355-63	3.7	28
143	Nanolayered manganese oxide/C(60) composite: a good water-oxidizing catalyst for artificial photosynthetic systems. <i>Dalton Transactions</i> , <b>2014</b> , 43, 12058-64	4.3	27
142	Redox characteristics of Schiff base manganese and cobalt complexes related to water-oxidizing complex of photosynthesis. <i>Bioelectrochemistry</i> , <b>1999</b> , 48, 53-9		27
141	Bicarbonate-reversible formate inhibition at the donor side of Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1996</b> , 1273, 1-3	4.6	27
140	Determination of the potential of cyanobacterial strains for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 2627-2639	6.7	27
139	Nano-sized layered Mn oxides as promising and biomimetic water oxidizing catalysts for water splitting in artificial photosynthetic systems. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2014</b> , 133, 124-39	6.7	26
138	Manganese-dependent carboanhydrase activity of photosystem II proteins. <i>Biochemistry (Moscow)</i> , <b>2009</b> , 74, 509-17	2.9	26
137	Membrane fluidity controls redox-regulated cold stress responses in cyanobacteria. <i>Photosynthesis Research</i> , <b>2017</b> , 133, 215-223	3.7	26
136	Foliar application of silicon improves growth of soybean by enhancing carbon metabolism under shading conditions. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 159, 43-52	5.4	26
135	Search for new strains of microalgae-producers of lipids from natural sources for biodiesel production. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 5844-5853	6.7	25
134	Comparison of nano-sized Mn oxides with the Mn cluster of photosystem II as catalysts for water oxidation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2015</b> , 1847, 294-306	4.6	25
133	Gold or silver deposited on layered manganese oxide: a functional model for the water-oxidizing complex in photosystem II. <i>Photosynthesis Research</i> , <b>2013</b> , 117, 423-9	3.7	25
132	Preillumination of lettuce seedlings with red light enhances the resistance of photosynthetic apparatus to UV-A. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2013</b> , 122, 1-6	6.7	25
131	Variable thermal emission and chlorophyll fluorescence in photosystem II particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1994</b> , 91, 281-5	11.5	25
130	Crop Halophytism: An Environmentally Sustainable Solution for Global Food Security. <i>Trends in Plant Science</i> , <b>2020</b> , 25, 630-634	13.1	25
129	Effects of lignin, cellulose, hemicellulose, sucrose and monosaccharide carbohydrates on soybean physical stem strength and yield in intercropping. <i>Photochemical and Photobiological Sciences</i> , <b>2020</b> , 19, 462-472	4.2	24
128	A highly dispersible, magnetically separable and environmentally friendly nano-sized catalyst for water oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 4616-4623	6.7	24
127	Bicarbonate binding to the water-oxidizing complex in the photosystem II. A Fourier transform infrared spectroscopy study. <i>FEBS Letters</i> , <b>1998</b> , 425, 396-400	3.8	24



126	Bioprocesses of hydrogen production by cyanobacteria cells and possible ways to increase their productivity. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 133, 110054	16.2	24
125	Polypeptide and Mn <sub>2</sub> O <sub>3</sub> oxide: Toward a biomimetic catalyst for water-splitting systems. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 5504-5512	6.7	23
124	Mn oxide/nanodiamond composite: a new water-oxidizing catalyst for water oxidation. <i>RSC Advances</i> , <b>2014</b> , 4, 37613-37619	3.7	23
123	Fluorescent Labeling Preserving OCP Photoactivity Reveals Its Reorganization during the Photocycle. <i>Biophysical Journal</i> , <b>2017</b> , 112, 46-56	2.9	22
122	Energy transfer processes in chlorophyll f-containing cyanobacteria using time-resolved fluorescence spectroscopy on intact cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2014</b> , 1837, 1484-1499	4.6	22
121	Cobalt/Cobalt Oxide Surface For Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6093-6105	8.3	22
120	24-Epibrassinolide alleviates the toxic effects of NaCl on photosynthetic processes in potato plants. <i>Photosynthesis Research</i> , <b>2020</b> , 146, 151-163	3.7	21
119	Energy transfer in the chlorophyll f-containing cyanobacterium, <i>Halomicronema hongdechloris</i> , analyzed by time-resolved fluorescence spectroscopies. <i>Photosynthesis Research</i> , <b>2015</b> , 125, 115-22	3.7	21
118	Irreversible photoinhibition of photosystem II is caused by exposure of <i>Synechocystis</i> cells to strong light for a prolonged period. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2005</b> , 1708, 342-51	4.6	21
117	Dissection of photodamage at low temperature and repair in darkness suggests the existence of an intermediate form of photodamaged photosystem II. <i>Biochemistry</i> , <b>2003</b> , 42, 14277-83	3.2	21
116	Water oxidation by a nickel complex: New challenges and an alternative mechanism. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 33563-33573	6.7	21
115	Water splitting by a pentanuclear iron complex. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 17434-17443	4.1	20
114	Stabilization of the oxygen-evolving complex of photosystem II by bicarbonate and glycinebetaine in thylakoid and subthylakoid preparations. <i>Functional Plant Biology</i> , <b>2003</b> , 30, 797-803	2.7	20
113	Optical Study of Cytochrome cM Formation in <i>Synechocystis</i> . <i>IUBMB Life</i> , <b>2001</b> , 51, 93-97	4.7	20
112	A transparent electrode with water-oxidizing activity. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 22896-22904	6.7	20
111	Resistance of <i>Arabidopsis thaliana</i> L. photosynthetic apparatus to UV-B is reduced by deficit of phytochromes B and A. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2017</b> , 169, 41-46	6.7	19
110	Engineered polypeptide around nano-sized manganese-calcium oxide as an artificial water-oxidizing enzyme mimicking natural photosynthesis: Toward artificial enzymes with highly active site densities. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 17826-17836	6.7	18
109	Phenotyping of isogenic chlorophyll-less bread and durum wheat mutant lines in relation to photoprotection and photosynthetic capacity. <i>Photosynthesis Research</i> , <b>2019</b> , 139, 239-251	3.7	18

108	Carbonic Anhydrase in Subchloroplast Particles of Pea Plants. <i>Russian Journal of Plant Physiology</i> , <b>2002</b> , 49, 303-310	1.6	18
107	Acclimation strategy and plasticity of different soybean genotypes in intercropping. <i>Functional Plant Biology</i> , <b>2020</b> , 47, 592-610	2.7	17
106	Computational analysis of fluorescence induction curves in intact spinach leaves treated at different pH. <i>BioSystems</i> , <b>2011</b> , 103, 158-63	1.9	17
105	Photosynthesis research under climate change. <i>Photosynthesis Research</i> , <b>2021</b> , 150, 5-19	3.7	17
104	Quantitative structure-activity relationship analysis of perfluoroiso-propyldinitrobenzene derivatives known as photosystem II electron transfer inhibitors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 1229-36	4.6	16
103	Regulation systems for stress responses in cyanobacteria. <i>Russian Journal of Plant Physiology</i> , <b>2011</b> , 58, 749-767	1.6	16
102	A carbonic anhydrase inhibitor induces bicarbonate-reversible suppression of electron transfer in pea photosystem 2 membrane fragments. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2011</b> , 104, 366-71	6.7	16
101	Thermoluminescence evidence for light-induced oxidation of tyrosine and histidine residues in manganese-depleted photosystem II particles. <i>FEBS Letters</i> , <b>1992</b> , 297, 51-4	3.8	16
100	Arsenic transport and interaction with plant metabolism: Clues for improving agricultural productivity and food safety. <i>Environmental Pollution</i> , <b>2021</b> , 290, 117987	9.3	16
99	Photocurrent Generation of Reconstituted Photosystem II on a Self-Assembled Gold Film. <i>Langmuir</i> , <b>2017</b> , 33, 1351-1358	4	15
98	The thylakoid carbonic anhydrase associated with photosystem II is the component of inorganic carbon accumulating system in cells of halo- and alkaliphilic cyanobacterium <i>Rhabdoderma lineare</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2007</b> , 1767, 616-23	4.6	15
97	Reconstitution of the water-oxidizing complex in manganese-depleted photosystem II preparations using synthetic Mn complexes: a fluorine-19 NMR study of the reconstitution process. <i>Photosynthesis Research</i> , <b>2008</b> , 98, 277-84	3.7	15
96	Is carbonic anhydrase activity of photosystem II required for its maximum electron transport rate?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2018</b> , 1859, 292-299	4.6	14
95	Effect of bicarbonate on the S2 multiline EPR signal of the oxygen-evolving complex in photosystem II membrane fragments. <i>FEBS Letters</i> , <b>1998</b> , 424, 146-8	3.8	14
94	Photoreduction of NADP(+) in photosystem II of higher plants: requirement for manganese. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1992</b> , 47, 57-62	1.7	14
93	International conference on "Photosynthesis research for sustainability-2015" in honor of George C. Papageorgiou", September 21-26, 2015, Crete, Greece. <i>Photosynthesis Research</i> , <b>2016</b> , 130, 1-10	3.7	13
92	Water exchange in manganese-based water-oxidizing catalysts in photosynthetic systems: from the water-oxidizing complex in photosystem II to nano-sized manganese oxides. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2014</b> , 1837, 1395-410	4.6	13
91	Heat Stress: Susceptibility, Recovery and Regulation. <i>Advances in Photosynthesis and Respiration</i> , <b>2012</b> , 251-274	1.7	13

90	Electrogenic reactions on the donor side of Mn-depleted photosystem II core particles in the presence of MnCl <sub>2</sub> and synthetic trinuclear Mn-complexes. <i>Photochemical and Photobiological Sciences</i> , <b>2009</b> , 8, 162-6	4.2	13
89	Impact of UV-B radiation on the photosystem II activity, pro-/antioxidant balance and expression of light-activated genes in <i>Arabidopsis thaliana</i> hy4 mutants grown under light of different spectral composition. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2019</b> , 194, 14-20	6.7	13
88	Nano-sized Mn oxide: A true catalyst in the water-oxidation reaction. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2015</b> , 152, 127-32	6.7	12
87	Cellular energization protects the photosynthetic machinery against salt-induced inactivation in <i>Synechococcus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2005</b> , 1708, 201-8	4.6	12
86	Electron and proton transport in wheat exposed to salt stress: is the increase of the thylakoid membrane proton conductivity responsible for decreasing the photosynthetic activity in sensitive genotypes?. <i>Photosynthesis Research</i> , <b>2021</b> , 150, 195-211	3.7	12
85	Screening of novel chemical compounds as possible inhibitors of carbonic anhydrase and photosynthetic activity of photosystem II. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2014</b> , 137, 156-67	6.7	11
84	Molecular Mechanisms of Stress Resistance of Photosynthetic Machinery <b>2013</b> , 21-51		11
83	Current challenges in photosynthesis: from natural to artificial. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 232	6.2	11
82	Dehydroascorbate reductase and glutathione reductase play an important role in scavenging hydrogen peroxide during natural and artificial dehydration of <i>Jatropha curcas</i> seeds <b>2012</b> , 55, 469-480		11
81	Redox characteristics of manganese and cobalt complexes obtained from pyridine N-oxide. <i>Bioelectrochemistry</i> , <b>2000</b> , 51, 175-80	5.6	11
80	Manganese oxides supported on gold nanoparticles: new findings and current controversies for the role of gold. <i>Photosynthesis Research</i> , <b>2015</b> , 126, 477-87	3.7	10
79	A nanosized Mn oxide/boron nitride composite as a catalyst for water oxidation. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 10627-10633	3.6	10
78	Prospects for the creation of a waste-free technology for wastewater treatment and utilization of carbon dioxide based on cyanobacteria for biodiesel production. <i>Journal of Biotechnology</i> , <b>2020</b> , 324, 162-170	3.7	10
77	Investigation of photo-electrochemical response of iron oxide/mixed-phase titanium oxide heterojunction toward possible solar energy conversion. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 7241-7253	6.7	10
76	Regulation by Environmental Conditions of the Repair of Photosystem II in Cyanobacteria. <i>Advances in Photosynthesis and Respiration</i> , <b>2008</b> , 193-203	1.7	10
75	Characterization of nineteen antimony(III) complexes as potent inhibitors of photosystem II, carbonic anhydrase, and glutathione reductase. <i>Photosynthesis Research</i> , <b>2016</b> , 130, 167-182	3.7	9
74	A nano-sized manganese oxide in a protein matrix as a natural water-oxidizing site. <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 81, 3-15	5.4	9
73	Photochemical activity and the structure of chloroplasts in <i>Arabidopsis thaliana</i> L. mutants deficient in phytochrome A and B. <i>Protoplasma</i> , <b>2017</b> , 254, 1283-1293	3.4	9

72	Regulatory Roles in Photosynthesis of Unsaturated Fatty Acids in Membrane Lipids. <i>Advances in Photosynthesis and Respiration</i> , <b>2009</b> , 373-388	1.7	9
71	Deficiencies in phytochromes A and B and cryptochrome 1 affect the resistance of the photosynthetic apparatus to high-intensity light in <i>Solanum lycopersicum</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2020</b> , 210, 111976	6.7	9
70	Aquaporin-deficient mutant of <i>Synechocystis</i> is sensitive to salt and high-light stress. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2015</b> , 152, 377-82	6.7	8
69	Photoelectrochemistry of manganese oxide/mixed phase titanium oxide heterojunction. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 3514-3523	3.6	8
68	Hydrogen evolution by subchloroplast preparations of photosystem II from pea and spinach,. <i>FEBS Letters</i> , <b>1988</b> , 240, 1-5	3.8	8
67	The different patterns of post-heat stress responses in wheat genotypes: the role of the transthylakoid proton gradient in efficient recovery of leaf photosynthetic capacity. <i>Photosynthesis Research</i> , <b>2021</b> , 150, 179-193	3.7	8
66	Gold nanorods or nanoparticles deposited on layered manganese oxide: new findings. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7260-7267	3.6	7
65	Vyacheslav (Slava) Klimov (1945-2017): A scientist par excellence, a great human being, a friend, and a Renaissance man. <i>Photosynthesis Research</i> , <b>2018</b> , 136, 1-16	3.7	7
64	A new strategy to make an artificial enzyme: photosystem II around nanosized manganese oxide. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 4451-4461	5.5	7
63	Mechanosensitive ion channel MsL controls ionic fluxes during cold and heat stress in <i>Synechocystis</i> . <i>FEMS Microbiology Letters</i> , <b>2015</b> , 362, fmv090	2.9	7
62	Reconstitution of the water-oxidizing complex in manganese-depleted photosystem II preparations using synthetic binuclear Mn(II) and Mn(IV) complexes: production of hydrogen peroxide. <i>Photosynthesis Research</i> , <b>2007</b> , 93, 133-8	3.7	7
61	A random walk to and through the photoelectrochemical cells based on photosynthetic systems. <i>Biofuel Research Journal</i> , <b>2015</b> , 2, 222-222	13.9	7
60	Linking sensitivity of photosystem II to UV-B with chloroplast ultrastructure and UV-B absorbing pigments contents in <i>A. thaliana</i> L. phyAphyB double mutants. <i>Plant Growth Regulation</i> , <b>2020</b> , 91, 13-21	3.2	7
59	A manganese(ii) phthalocyanine under water-oxidation reaction: new findings. <i>Dalton Transactions</i> , <b>2019</b> , 48, 12147-12158	4.3	6
58	Identification and differential expression of two dehydrin cDNAs during maturation of <i>Jatropha curcas</i> seeds. <i>Biochemistry (Moscow)</i> , <b>2013</b> , 78, 485-95	2.9	6
57	Imidazolium or guanidinium/layered manganese (III, IV) oxide hybrid as a promising structural model for the water-oxidizing complex of Photosystem II for artificial photosynthetic systems. <i>Photosynthesis Research</i> , <b>2013</b> , 117, 413-21	3.7	6
56	Optimising photosynthesis for environmental fitness. <i>Functional Plant Biology</i> , <b>2020</b> , 47, iii-vii	2.7	6
55	Effect of salt stress on physiological parameters of microalgae <i>Vischeria punctata</i> strain IPPAS H-242, a superproducer of eicosapentaenoic acid. <i>Journal of Biotechnology</i> , <b>2021</b> , 331, 63-73	3.7	6

54	Evaluation of new Cu(II) complexes as a novel class of inhibitors against plant carbonic anhydrase, glutathione reductase, and photosynthetic activity in photosystem II. <i>Photosynthesis Research</i> , <b>2017</b> , 133, 139-153	3.7	5
53	Nanosized manganese oxide/holmium oxide: a new composite for water oxidation. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 13732-13741	3.6	5
52	Elucidating the site of action of oxalate in photosynthetic electron transport chain in spinach thylakoid membranes. <i>Photosynthesis Research</i> , <b>2008</b> , 97, 177-84	3.7	5
51	A comprehensive review on lignocellulosic biomass biorefinery for sustainable biofuel production. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	5
50	Photosynthetic Hydrogen Production: Mechanisms and Approaches <b>2012</b> , 25-53		5
49	Iron-Bickel oxide: a promising strategy for water oxidation. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 1517-1523	3.6	5
48	Photo-electrochemistry of metallic titanium/mixed phase titanium oxide. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 19433-19445	6.7	5
47	Use of Synchrotron Phase-Sensitive Imaging for the Investigation of Magnetopriming and Solar UV-Exclusion Impact on Soybean () Leaves. <i>Cells</i> , <b>2021</b> , 10,	7.9	5
46	A dinuclear iron complex as a precatalyst for water oxidation under alkaline conditions. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 29896-29904	6.7	5
45	Nanostructured manganese oxide on silica aerogel: a new catalyst toward water oxidation. <i>Photosynthesis Research</i> , <b>2016</b> , 130, 225-235	3.7	4
44	Honoring George C. Papageorgiou. <i>Photosynthetica</i> , <b>2016</b> , 54, 158-160	2.2	4
43	High salt stress in coupled and uncoupled thylakoid membranes: a comparative study. <i>Biochemistry (Moscow)</i> , <b>2009</b> , 74, 620-4	2.9	4
42	Potential of cyanobacteria in the conversion of wastewater to biofuels. <i>World Journal of Microbiology and Biotechnology</i> , <b>2021</b> , 37, 140	4.4	4
41	Understanding the Dynamics of Molecular Water Oxidation Catalysts with Liquid-Phase Transmission Electron Microscopy: The Case of Vitamin B12. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 9494-9505	8.3	4
40	Effect of Ti treatments on growth, photosynthesis, phosphorus uptake and yield of soybean (Glycine max L.) in maize-soybean relay strip intercropping. <i>Environmental and Experimental Botany</i> , <b>2021</b> , 187, 104476	5.9	4
39	The importance of identifying the true catalyst when using Randles-Sevcik equation to calculate turnover frequency. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 37774-37774	6.7	4
38	The effect of lanthanum(III) and cerium(III) ions between layers of manganese oxide on water oxidation. <i>Photosynthesis Research</i> , <b>2015</b> , 126, 489-98	3.7	3
37	Combinatory actions of CP29 phosphorylation by STN7 and stability regulate leaf age-dependent disassembly of photosynthetic complexes. <i>Scientific Reports</i> , <b>2020</b> , 10, 10267	4.9	3

36	A Photochemical Hydrogen Evolution System Combining Cyanobacterial Photosystem I and Platinum Nanoparticle-terminated Molecular Wires. <i>Chemistry Letters</i> , <b>2017</b> , 46, 1479-1481	1.7	3
35	Components of Natural Photosynthetic Apparatus in Solar Cells <b>2016</b> ,		3
34	Effect of high-intensity light and UV-B on photosynthetic activity and the expression of certain light-responsive genes in <i>A. thaliana</i> phyA and phyB mutants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2021</b> , 1862, 148445	4.6	3
33	Jalal A. Aliyev (1928-2016): a great scientist, a great teacher and a great human being. <i>Photosynthesis Research</i> , <b>2016</b> , 128, 219-22	3.7	2
32	Electrogenic reactions in Mn-depleted photosystem II core particles in the presence of synthetic binuclear Mn complexes. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 503, 222-227	3.4	2
31	Binding of novel inhibitors of electron transfer in photosystem 2, derivatives of perfluoroisopropylidinitrobenzene, with polypeptide D2 of the reaction center. <i>Biochemistry (Moscow)</i> , <b>2003</b> , 68, 162-71	2.9	2
30	Photosynthesis: Natural Nanomachines Toward Energy and Food Production <b>2017</b> , 1-9		2
29	An iridium-based nanocomposite prepared from an iridium complex with a hydrocarbon-based ligand. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 15636-15645	3.6	2
28	Current Insights to Enhance Hydrogen Production by Photosynthetic Organisms <b>2016</b> , 461-488		2
27	Effect of red light on photosynthetic acclimation and the gene expression of certain light signalling components involved in the microRNA biogenesis in the extremophile <i>Eutrema salsgineum</i> . <i>Journal of Biotechnology</i> , <b>2021</b> , 325, 35-42	3.7	2
26	Effect of high-intensity light on the photosynthetic activity, pigment content and expression of light-dependent genes of photomorphogenetic <i>Solanum lycopersicum</i> hp mutants. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 167, 91-100	5.4	2
25	Photosynthetic Carbon Metabolism: Strategy of Adaptation over Evolutionary History 233-325		2
24	Self-Healing in Nano-sized Manganese-Based Water-Oxidizing Catalysts <b>2017</b> , 333-341		1
23	Unsupervised classification of PSII with and without water-oxidizing complex samples by PARAFAC resolution of excitation-emission fluorescence images. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2019</b> , 195, 58-66	6.7	1
22	Celebrating the contributions of Govindjee after his retirement: 1999-2020. <i>New Zealand Journal of Botany</i> , <b>2020</b> , 58, 422-460	1	1
21	Toward <i>Escherichia coli</i> bacteria machine for water oxidation. <i>Photosynthesis Research</i> , <b>2018</b> , 136, 257-267		1
20	Links between peptides and Mn oxide: nano-sized manganese oxide embedded in a peptide matrix. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 10067-10077	3.6	1
19	Influence of osmolytes on the stability of thylakoid-based dye-sensitized solar cells. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 8878	4.5	1

18	The 10th international conference on Photosynthesis and Hydrogen Energy Research for sustainability—A pictorial report in honor of Tingyun Kuang, Anthony Larkum, Cesare Marchetti and Kimiyuki Satoh. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 30927-30934	6.7	1
17	The Multiple Roles of Various Reactive Oxygen Species (ROS) in Photosynthetic Organisms <b>2015</b> , 1-84		1
16	Mitigation effects of selenium on accumulation of cadmium and morpho-physiological properties in rice varieties. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 170, 1-13	5.4	1
15	Structural and Functional Organization of the Pigment-Protein Complexes of the Photosystems in Mutant Cells of Green Algae and Higher Plants 179-232		1
14	Impact of high irradiance and UV-B on the photosynthetic activity, pro-/antioxidant balance and expression of light-activated genes in <i>Arabidopsis thaliana</i> hy4 mutants grown under blue light. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 167, 153-162	5.4	1
13	Potential of microalgae <i>Parachlorella kessleri</i> Bh-2 as bioremediation agent of heavy metals cadmium and chromium. <i>Algal Research</i> , <b>2021</b> , 59, 102463	5	1
12	Effect of thiamethoxam on photosynthetic pigments and primary photosynthetic reactions in two maize genotypes ( <i>Zea mays</i> ). <i>Functional Plant Biology</i> , <b>2021</b> , 48, 994-1004	2.7	1
11	Photooxidation of Mn-bicarbonate Complexes by Reaction Centers of Purple Bacteria as a Possible Stage in the Evolutionary Origin of the Water-Oxidizing Complex of Photosystem II 85-132		1
10	Hydrogen Metabolism in Microalgae 133-161		1
9	Photosynthetic Machinery Response to Low Temperature Stress 355-382		1
8	Voltage generation by photosystem I complexes immobilized onto a millipore filter under continuous illumination. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 11528-11538	6.7	0
7	Honoring eight senior distinguished plant biologists from India. <i>Photosynthesis Research</i> , <b>2019</b> , 139, 45-53		7
6	Study on the effects of chloride depletion on photosystem II using different chloride depletion methods. <i>Journal of Bioenergetics and Biomembranes</i> , <b>2010</b> , 42, 47-53	3.7	
5	Inactivation of photosynthetic oxygen evolution by o-phenanthroline and LiClO <sub>4</sub> in Photosystem 2 of the pea. <i>Photosynthesis Research</i> , <b>1993</b> , 35, 345-9	3.7	
4	The Structure and Regulation of Chloroplast ATP Synthase 163-177		
3	Nanostructured Mn Oxide/Carboxylic Acid or Amine Functionalized Carbon Nanotubes as Water-Oxidizing Composites in Artificial Photosynthesis <b>2017</b> , 321-331		
2	Plasticity of the Photosynthetic Energy Conversion and Accumulation of Metabolites in Plants in Response to Light Quality. <i>Advances in Photosynthesis and Respiration</i> , <b>2021</b> , 533-563	1.7	
1	Chlorophyll Species and Their Functions in the Photosynthetic Energy Conversion. <i>Advances in Photosynthesis and Respiration</i> , <b>2021</b> , 133-161	1.7	

