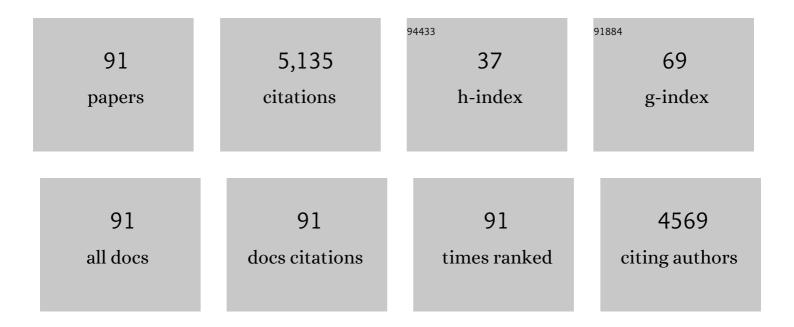
List of Publications by Year in descending order

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IMDE VASS

#	Article	IF	CITATIONS
1	Reversible and irreversible intermediates during photoinhibition of photosystem II: stable reduced QA species promote chlorophyll triplet formation Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 1408-1412.	7.1	487
2	A Soluble Carotenoid Protein Involved in Phycobilisome-Related Energy Dissipation in Cyanobacteria. Plant Cell, 2006, 18, 992-1007.	6.6	396
3	Detection of Singlet Oxygen and Superoxide with Fluorescent Sensors in Leaves Under Stress by Photoinhibition or UV Radiation. Plant and Cell Physiology, 2002, 43, 1154-1164.	3.1	213
4	A novel aldose/aldehyde reductase protects transgenic plants against lipid peroxidation under chemical and drought stresses. Plant Journal, 2000, 24, 437-446.	5.7	211
5	Plants ectopically expressing the ironbinding protein, ferritin, are tolerant to oxidative damage and pathogens. Nature Biotechnology, 1999, 17, 192-196.	17.5	208
6	Janus-faced charge recombinations in photosystem II photoinhibition. Trends in Plant Science, 2009, 14, 200-205.	8.8	196
7	Singlet oxygen production in thylakoid membranes during photoinhibition as detected by EPR spectroscopy. Photosynthesis Research, 1994, 39, 191-199.	2.9	177
8	Copper Toxicity Affects Photosystem II Electron Transport at the Secondary Quinone Acceptor, Q _B . Plant Physiology, 1989, 90, 175-179.	4.8	138
9	Operon <i>flv4-flv2</i> Provides Cyanobacterial Photosystem II with Flexibility of Electron Transfer. Plant Cell, 2012, 24, 1952-1971.	6.6	133
10	Thermoluminescence from the photosynthetic apparatus. Photosynthesis Research, 1996, 48, 117-126.	2.9	130
11	The Cyanobacterial Photoactive Orange Carotenoid Protein Is an Excellent Singlet Oxygen Quencher Â. Plant Cell, 2014, 26, 1781-1791.	6.6	110
12	Title is missing!. Photosynthesis Research, 1997, 54, 55-62.	2.9	109
13	Inhibition of Photosynthetic Electron Transport by UV-A Radiation Targets the Photosystem II Complex¶. Photochemistry and Photobiology, 2000, 72, 513.	2.5	90
14	UV-B-induced Differential Transcription of psbAGenes Encoding the D1 Protein of Photosystem II in the Cyanobacterium Synechocystis 6803. Journal of Biological Chemistry, 1998, 273, 17439-17444.	3.4	89
15	Detoxification function of aldose/aldehyde reductase during drought and ultraviolet-B (280-320 nm) stresses. Plant, Cell and Environment, 2003, 26, 513-522.	5.7	89
16	Double (Fluorescent and Spin) Sensors for Detection of Reactive Oxygen Species in the Thylakoid Membrane. Free Radical Biology and Medicine, 1998, 24, 649-652.	2.9	83
17	In Vivo Target Sites of Nitric Oxide in Photosynthetic Electron Transport as Studied by Chlorophyll Fluorescence in Pea Leaves. Plant Physiology, 2008, 146, 1920-1927.	4.8	81
18	Response of Organ Structure and Physiology to Autotetraploidization in Early Development of Energy Willow <i>Salix viminalis</i> . Plant Physiology, 2016, 170, 1504-1523.	4.8	79

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19	Flavodiiron Protein Flv2/Flv4-Related Photoprotective Mechanism Dissipates Excitation Pressure of PSII in Cooperation with Phycobilisomes in Cyanobacteria Â. Plant Physiology, 2014, 164, 805-818.	4.8	77
20	Bacterial symbionts enhance photo-fermentative hydrogen evolution of Chlamydomonas algae. Green Chemistry, 2014, 16, 4716-4727.	9.0	75
21	Deletion of the PEST-like Region of Photosystem Two Modifies the QB-binding Pocket but Does Not Prevent Rapid Turnover of D1. Journal of Biological Chemistry, 1995, 270, 14919-14927.	3.4	72
22	Potato Annexin STANN1 Promotes Drought Tolerance and Mitigates Light Stress in Transgenic Solanum tuberosum L. Plants. PLoS ONE, 2015, 10, e0132683.	2.5	72
23	Thermoluminescence: experimental. Photosynthesis Research, 2009, 101, 195-204.	2.9	70
24	The interaction of visible and UV-B light during photodamage and repair of Photosystem II. Photosynthesis Research, 2003, 75, 127-137.	2.9	68
25	Nuclear localization of a hypoxia-inducible novel non-symbiotic hemoglobin in cultured alfalfa cells1. FEBS Letters, 2000, 482, 125-130.	2.8	62
26	Phenotyping shows improved physiological traits and seed yield of transgenic wheat plants expressing the alfalfa aldose reductase under permanent drought stress. Acta Physiologiae Plantarum, 2014, 36, 663-673.	2.1	61
27	Construction of bioluminescent cyanobacterial reporter strains for detection of nickel, cobalt and zinc. FEMS Microbiology Letters, 2008, 289, 258-264.	1.8	59
28	Photosystem II damage induced by chemically generated singlet oxygen in tobacco leaves. Physiologia Plantarum, 2007, 131, 33-40.	5.2	58
29	The history of photosynthetic thermoluminescence. Photosynthesis Research, 2003, 76, 303-318.	2.9	56
30	A Mutant Small Heat Shock Protein with Increased Thylakoid Association Provides an Elevated Resistance Against UV-B Damage in Synechocystis 6803. Journal of Biological Chemistry, 2008, 283, 22983-22991.	3.4	53
31	Inactivation of photosynthetic oxygen evolution by UV-B irradiation: A thermoluminescence study. Photosynthesis Research, 1993, 38, 455-462.	2.9	52
32	THE 75°C THERMOLUMINESCENCE BAND OF GREEN TISSUES: CHEMILUMINESCENCE FROM MEMBRANE HLOROPHYLL INTERACTION. Photochemistry and Photobiology, 1993, 58, 280-283.	2.5	51
33	Molecular Mechanisms of Light Stress of Photosynthesis. Annals of the New York Academy of Sciences, 2007, 1113, 114-122.	3.8	50
34	The function of D1-H332 in Photosystem II electron transport studied by thermoluminescence and chlorophyll fluorescence in site-directed mutants of Synechocystis 6803. FEBS Journal, 2004, 271, 3523-3532.	0.2	47
35	Thermoimaging as a tool for studying light-induced heating of leaves. Environmental and Experimental Botany, 2008, 64, 90-96.	4.2	45
36	Proline is a quencher of singlet oxygen and superoxide both in in vitro systems and isolated thylakoids. Physiologia Plantarum, 2021, 172, 7-18.	5.2	45

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37	Functional Characterization and Quantification of the Alternative PsbA Copies in Thermosynechococcus elongatus and Their Role in Photoprotection. Journal of Biological Chemistry, 2010, 285, 29851-29856.	3.4	44
38	Inhibition of photosynthetic CO2 fixation in the coral <i>Pocillopora damicornis</i> and its relationship to thermal bleaching. Journal of Experimental Biology, 2014, 217, 2150-62.	1.7	42
39	Maximum fluorescence and electron transport kinetics determined by light-induced fluorescence transients (LIFT) for photosynthesis phenotyping. Photosynthesis Research, 2019, 140, 221-233.	2.9	39
40	<i>Symbiodinium</i> sp. cells produce lightâ€induced intra―and extracellular singlet oxygen, which mediates photodamage of the photosynthetic apparatus and has the potential to interact with the animal host in coral symbiosis. New Phytologist, 2016, 212, 472-484.	7.3	37
41	Coregulated Genes Link Sulfide:Quinone Oxidoreductase and Arsenic Metabolism in Synechocystis sp. Strain PCC6803. Journal of Bacteriology, 2014, 196, 3430-3440.	2.2	36
42	Cyclic Nucleotides, the Photosynthetic Apparatus and Response to a UV-B Stress in the Cyanobacterium Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2005, 280, 33935-33944.	3.4	35
43	Co-occurrence of Mild Salinity and Drought Synergistically Enhances Biomass and Grain Retardation in Wheat. Frontiers in Plant Science, 2019, 10, 501.	3.6	35
44	Removal of 33 kDa extrinsic protein specifically stabilizes the S2 QA â^ charge pair in photosystem II. FEBS Letters, 1987, 211, 215-220.	2.8	34
45	Photoinactivation of Photosystem II by flashing light. Photosynthesis Research, 2005, 84, 15-20.	2.9	34
46	Photoinhibition of carotenoidless reaction centers from Rhodobacter sphaeroides by visible light. Effects on protein structure and electron transport. Photosynthesis Research, 2001, 70, 175-184.	2.9	32
47	Stimulation of energy willow biomass with triacontanol and seaweed extract. Industrial Crops and Products, 2018, 120, 104-112.	5.2	32
48	Contrasting response of biomass and grain yield to severe drought in Cappelle Desprez and Plainsman V wheat cultivars. PeerJ, 2016, 4, e1708.	2.0	32
49	Thermoluminescence studies on the function of Photosystem II in the desiccation tolerant lichen Cladonia convoluta. Photosynthesis Research, 1996, 48, 205-212.	2.9	31
50	UV-B radiation induced exchange of the D1 reaction centre subunits produced from the psbA2 and psbA3 genes in the cyanobacterium Synechocystis sp. PCC 6803. FEBS Journal, 2000, 267, 2640-2648.	0.2	31
51	Mutation of Residue Threonine-2 of the D2 Polypeptide and Its Effect on Photosystem II Function inChlamydomonas reinhardtii1. Plant Physiology, 1998, 117, 515-524.	4.8	28
52	Energetics of Photosystem II charge recombination in Acaryochloris marina studied by thermoluminescence and flash-induced chlorophyll fluorescence measurements. Photosynthesis Research, 2008, 98, 131-140.	2.9	27
53	Superoxide radicals are not the main promoters of acceptor-side-induced photoinhibitory damage in spinach thylakoids. Photosynthesis Research, 1995, 46, 399-407.	2.9	26
54	Reduced Turnover of the D1 Polypeptide and Photoactivation of Electron Transfer in Novel Herbicide Resistant Mutants of Synechocystis sp. PCC 6803. FEBS Journal, 1997, 248, 731-740.	0.2	26

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55	Transcriptional regulation of the bidirectional hydrogenase in the cyanobacterium Synechocystis 6803. Journal of Biotechnology, 2009, 142, 31-37.	3.8	25
56	D1 protein turnover is involved in protection of Photosystem II against UV-B induced damage in the cyanobacterium Arthrospira (Spirulina) platensis. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 320-325.	3.8	23
57	Comparison of the Functional Properties of the Monomeric and Dimeric Forms of the Isolated CP47-Reaction Center Complex. Journal of Biological Chemistry, 1998, 273, 16128-16133.	3.4	22
58	Phosphatidylglycerol depletion affects photosystem II activity in Synechococcus sp. PCC 7942 cells. Photosynthesis Research, 2010, 103, 19-30.	2.9	22
59	Differential gene expression and physiological changes during acute or persistent plant virus interactions may contribute to viral symptom differences. PLoS ONE, 2019, 14, e0216618.	2.5	22
60	The extreme halophyte Salicornia veneta is depleted of the extrinsic PsbQ and PsbP proteins of the oxygen-evolving complex without loss of functional activity. Annals of Botany, 2009, 103, 505-515.	2.9	21
61	The Ability of Cyanobacterial Cells to Restore <scp>UV</scp> â€B Radiation Induced Damage to Photosystem <scp>II</scp> is Influenced by Photolyase Dependent <scp>DNA</scp> Repair. Photochemistry and Photobiology, 2013, 89, 384-390.	2.5	21
62	Investigating the Photoprotective Role of Cytochrome b-559 in Photosystem II in a Mutant with Altered Ligation of the Haem. Plant and Cell Physiology, 2014, 55, 1276-1285.	3.1	19
63	Thermoluminescence properties of the isolated photosystem two reaction centre. Photosynthesis Research, 1989, 22, 295-301.	2.9	17
64	Dissecting the Photoprotective Mechanism Encoded by the <i>flv4â€2</i> Operon: a Distinct Contribution of Sll0218 in Photosystem II Stabilization. Plant, Cell and Environment, 2017, 40, 378-389.	5.7	17
65	UV-B induced differential transcription of psbD genes encoding the D2 protein of Photosystem II in the cyanobacterium Synechocystis 6803. Photosynthesis Research, 2000, 64, 257-266.	2.9	16
66	Characterization of the psbK locus of Synechocystis sp. PCC 6803 in terms of Photosystem II function. Photosynthesis Research, 1993, 38, 369-377.	2.9	15
67	A single plasmid based CRISPR interference in Synechocystis 6803 – A proof of concept. PLoS ONE, 2019, 14, e0225375.	2.5	15
68	Charge stabilization and recombination in Photosystem II containing the D1′ protein product of the psbA1 gene in Synechocystis 6803. Physical Chemistry Chemical Physics, 2004, 6, 4832-4837.	2.8	13
69	The role of D1-Ala344 in charge stabilization and recombination in Photosystem II. Photochemical and Photobiological Sciences, 2005, 4, 1049.	2.9	13
70	Chloramphenicol Mediates Superoxide Production in Photosystem II and Enhances Its Photodamage in Isolated Membrane Particles. Frontiers in Plant Science, 2016, 7, 479.	3.6	13
71	Chloramphenicol enhances Photosystem II photodamage in intact cells of the cyanobacterium Synechocystis PCC 6803. Photosynthesis Research, 2020, 145, 227-235.	2.9	13
72	Determination of activation energies and half-lives of thermoluminescence bands of chloroplasts applying the method of multicomponent curve resolution. FEBS Letters, 1980, 116, 293-297.	2.8	12

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73	Resistance of reaction centers from Rhodobacter sphaeroides against UV-B radiation. Effects on protein structure and electron transport. Photosynthesis Research, 1996, 50, 171-179.	2.9	12
74	The cry-DASH cryptochrome encoded by the sll1629 gene in the cyanobacterium Synechocystis PCC 6803 is required for Photosystem II repair. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 318-326.	3.8	12
75	The stress-induced SCP/HLIP family of small light-harvesting-like proteins (ScpABCDE) protects Photosystem II from photoinhibitory damages in the cyanobacterium Synechocystis sp. PCC 6803. Photosynthesis Research, 2018, 135, 103-114.	2.9	11
76	Secondary metabolite from <i><scp>N</scp>ostoc</i> â€ <scp>XPORK14A</scp> inhibits photosynthesis and growth of <i><scp>S</scp>ynechocystis</i> â€ <scp>PCC</scp> 6803. Plant, Cell and Environment, 2014, 37, 1371-1381.	5.7	10
77	β-Carotene influences the phycobilisome antenna of cyanobacterium Synechocystis sp. PCC 6803. Photosynthesis Research, 2016, 130, 403-415.	2.9	10
78	A multi-parametric screening platform for photosynthetic trait characterization of microalgae and cyanobacteria under inorganic carbon limitation. PLoS ONE, 2020, 15, e0236188.	2.5	8
79	Singlet oxygen damages the function of Photosystem II in isolated thylakoids and in the green alga Chlorella sorokiniana. Photosynthesis Research, 2021, 149, 93-105.	2.9	8
80	Drought and Saline Stress Tolerance Induced in Somatic Hybrids of Solanum chacoense and Potato Cultivars by Using Mismatch Repair Deficiency. Agriculture (Switzerland), 2021, 11, 696.	3.1	8
81	Stimulatory effects of pyridazinone herbicides on Chlorella. Plant Science Letters, 1980, 19, 285-294.	1.8	7
82	The role of the PsbU subunit in the light sensitivity of PSII in the cyanobacterium Synechococcus 7942. Journal of Photochemistry and Photobiology B: Biology, 2011, 105, 149-156.	3.8	7
83	A simple method to produce Synechocystis PCC6803 biofilm under laboratory conditions for electron microscopic and functional studies. PLoS ONE, 2020, 15, e0236842.	2.5	6
84	Functional characterization of the PS II-LHC II supercomplex isolated by a direct method from spinach thylakoid membranes. Photosynthesis Research, 2000, 64, 179-187.	2.9	5
85	Crop breeding for a changing climate in the Pannonian region: towards integration of modern phenotyping tools. Journal of Experimental Botany, 2022, 73, 5089-5110.	4.8	5
86	The lumenal loop connecting transmembrane helices I and II of the D1 polypeptide is important for assembly of the photosystem two complex. Photosynthesis Research, 1996, 50, 79-91.	2.9	4
87	Viable protoplast formation of the coral endosymbiont alga <i>Symbiodinium</i> spp. in a microfluidics platform. Lab on A Chip, 2022, 22, 2986-2999.	6.0	4
88	Energization and ultrastructural pattern of thylakoids formed under periodic illumination followed by continuous light. Photosynthesis Research, 1986, 9, 229-238.	2.9	2
89	Transcriptional regulation of the bidirectional hydrogenase by oxygen and light in two <i>Anabaena</i> species. New Zealand Journal of Botany, 2014, 52, 28-35.	1.1	2
90	Environmental <scp>pH</scp> and a Glu364 to Gln mutation in the chlorophyllâ€binding <scp>CP</scp> 47 protein affect redoxâ€active TyrD and charge recombination in Photosystem II. FEBS Letters, 2019, 593, 163-174.	2.8	1

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91	Identification of the <scp>AG</scp> afterglow thermoluminescence band in the cyanobacterium <i>Synechocystis <scp>PCC</scp> 6803</i> . Physiologia Plantarum, 2021, 171, 291-300.	5.2	1