Govindjee Govindjee

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359 papers

15,472 citations

66 h-index

105 g-index

403 ext. papers

17,095 ext. citations

4.5 avg, IF

6.68 L-index

#	Paper	IF	Citations
359	On the relation between the Kautsky effect (chlorophyll a fluorescence induction) and Photosystem II: basics and applications of the OJIP fluorescence transient. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011 , 104, 236-57	6.7	645
358	Light Absorption and Energy Transfer in the Antenna Complexes of Photosynthetic Organisms. <i>Chemical Reviews</i> , 2017 , 117, 249-293	68.1	549
357	Overexpression of gamma-tocopherol methyl transferase gene in transgenic Brassica juncea plants alleviates abiotic stress: physiological and chlorophyll a fluorescence measurements. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 1428-38	4.6	337
356	Effects of salt stress on photosystem II efficiency and CO2 assimilation of two Syrian barley landraces. <i>Environmental and Experimental Botany</i> , 2011 , 73, 64-72	5.9	287
355	Spectral signatures of photosynthesis. I. Review of Earth organisms. <i>Astrobiology</i> , 2007 , 7, 222-51	3.7	264
354	Xanthophyll cycle-dependent quenching of photosystem II chlorophyll a fluorescence: formation of a quenching complex with a short fluorescence lifetime. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 2273-7	11.5	220
353	Chlorophyll a fluorescence induction kinetics in leaves predicted from a model describing each discrete step of excitation energy and electron transfer associated with Photosystem II. <i>Planta</i> , 2005 , 223, 114-133	4.7	213
352	Characterization of the 820-nm transmission signal paralleling the chlorophyll a fluorescence rise (OJIP) in pea leaves. <i>Functional Plant Biology</i> , 2003 , 30, 785-796	2.7	212
351	Spectral signatures of photosynthesis. II. Coevolution with other stars and the atmosphere on extrasolar worlds. <i>Astrobiology</i> , 2007 , 7, 252-74	3.7	210
350	Chlorophyll a fluorescence transient as an indicator of active and inactive Photosystem II in thylakoid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990 , 1015, 180-8	4.6	206
349	Chlorophyll a fluorescence induction: a personal perspective of the thermal phase, the J-I-P rise. <i>Photosynthesis Research</i> , 2012 , 113, 15-61	3.7	201
348	Chlorophyll a fluorescence induction: Can just a one-second measurement be used to quantify abiotic stress responses?. <i>Photosynthetica</i> , 2018 , 56, 86-104	2.2	186
347	Determination of the primary charge separation rate in isolated photosystem II reaction centers with 500-fs time resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 524-8	11.5	175
346	Light-induced changes in the fluorescence yield of chlorophyll A in vivo. 3. The dip and the peak in the fluorescence transient of Chlorella pyrenoidosa. <i>Biophysical Journal</i> , 1969 , 9, 1-21	2.9	174
345	Photosynthetic responses of sun- and shade-grown barley leaves to high light: is the lower PSII connectivity in shade leaves associated with protection against excess of light?. <i>Photosynthesis Research</i> , 2014 , 119, 339-54	3.7	166
344	The polyphosphate bodies of Chlamydomonas reinhardtii possess a proton-pumping pyrophosphatase and are similar to acidocalcisomes. <i>Journal of Biological Chemistry</i> , 2001 , 276, 46196-	20 ⁵³⁴	153
343	ChlorophyllaFluorescence Induction in Higher Plants: Modelling and Numerical Simulation. <i>Journal of Theoretical Biology</i> , 1998 , 193, 131-151	2.3	151

342	A viewpoint: why chlorophyll a?. Photosynthesis Research, 2009, 99, 85-98	3.7	148
341	The electron donor side of photosystem II: the oxygen evolving complex. <i>Photochemistry and Photobiology</i> , 1985 , 42, 187-210	3.6	139
340	Quantitative analysis of the effects of intrathylakoid pH and xanthophyll cycle pigments on chlorophyll a fluorescence lifetime distributions and intensity in thylakoids. <i>Biochemistry</i> , 1998 , 37, 135	8 2-2 93	137
339	A new site of bicarbonate effect in photosystem II of photosynthesis: evidence from chlorophyll fluorescence transients in spinach chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1975 , 387, 403-8	4.6	130
338	Charge accumulation and photochemistry in leaves studied by thermoluminescence and delayed light emission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984 , 81, 1107-11	11.5	125
337	The molecular mechanism of the bicarbonate effect at the plastoquinone reductase site of photosynthesis. <i>Photosynthesis Research</i> , 1988 , 19, 85-128	3.7	120
336	Chlorophyll a Fluorescence: A Bit of Basics and History 2004 , 1-41		118
335	Structure of the red fluorescence band in chloroplasts. <i>Journal of General Physiology</i> , 1966 , 49, 763-80	3.4	113
334	Greening of Peas: Parallel Measurements of 77 K Emission Spectra, OJIP Chlorophyll a Fluorescence Transient, Period Four Oscillation of the Initial Fluorescence Level, Delayed Light Emission, and P700. <i>Photosynthetica</i> , 1999 , 37, 365	2.2	112
333	Thermoluminescence from the photosynthetic apparatus. <i>Photosynthesis Research</i> , 1996 , 48, 117-26	3.7	112
332	Photosystem II fluorescence: slow changesscaling from the past. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011 , 104, 258-70	6.7	110
331	Bicarbonate ion as a critical factor in photosynthetic oxygen evolution. <i>Plant Physiology</i> , 1973 , 52, 119-2	23 .6	109
330	Modeling chlorophyll a fluorescence transient: relation to photosynthesis. <i>Biochemistry (Moscow)</i> , 2014 , 79, 291-323	2.9	108
329	Experimental in vivo measurements of light emission in plants: a perspective dedicated to David Walker. <i>Photosynthesis Research</i> , 2012 , 114, 69-96	3.7	107
328	Modeling of the D1/D2 proteins and cofactors of the photosystem II reaction center: implications for herbicide and bicarbonate binding. <i>Protein Science</i> , 1996 , 5, 2054-73	6.3	104
327	Chlorophyll A fluorescence transient as an indicator of water potential of leaves. <i>Plant Science Letters</i> , 1981 , 20, 191-194		103
326	Light-induced changes in the fluorescence yield of chlorophyll a in vivo. I. Anacystis nidulans. <i>Biophysical Journal</i> , 1968 , 8, 1299-315	2.9	103
325	Bicarbonate effects on the electron flow in isolated broken chloroplasts. <i>Biochimica Et Biophysica Acta - Reviews on Bioenergetics</i> , 1978 , 505, 183-213		101

324	Photosystem II and the unique role of bicarbonate: a historical perspective. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 1134-51	4.6	96
323	Photosystem II chlorophyll a fluorescence lifetimes and intensity are independent of the antenna size differences between barley wild-type and chlorina mutants: Photochemical quenching and xanthophyll cycle-dependent nonphotochemical quenching of fluorescence. <i>Photosynthesis</i>	3.7	96
322	Light-induced slow changes in chlorophyll a fluorescence in isolated chloroplasts: effects of magnesium and phenazine methosulfate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1973 , 292, 459-7	76 ^{4.6}	94
321	A model for the mechanism of chloride activation of oxygen evolution in photosystem II. <i>Photosynthesis Research</i> , 1987 , 13, 199-223	3.7	90
320	Light-induced changes in the fluorescence yield of chlorophyll a in vivo. II. Chlorella pyrenoidosa. <i>Biophysical Journal</i> , 1968 , 8, 1316-28	2.9	88
319	The rate of formation of P700(+)-A 0 (-) in photosystem I particles from spinach as measured by picosecond transient absorption spectroscopy. <i>Photosynthesis Research</i> , 1987 , 12, 181-9	3.7	86
318	The role of chloride in O2 evolution by thylakoids from salt-tolerant higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1982 , 682, 436-445	4.6	85
317	Low-temperature (4-77 degrees K) spectroscopy of Chlorella: temperature dependence of energy transfer efficiency. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1970 , 216, 139-50	4.6	84
316	Effects of cadmium nitrate on spectral characteristics and light reactions of chloroplasts. <i>Environmental Letters</i> , 1974 , 6, 1-12		84
315	Discoveries in oxygenic photosynthesis (1727-2003): a perspective. <i>Photosynthesis Research</i> , 2004 , 80, 15-57	3.7	83
314	Comparative time-resolved photosystem II chlorophyll a fluorescence analyses reveal distinctive differences between photoinhibitory reaction center damage and xanthophyll cycle-dependent energy dissipation. <i>Photochemistry and Photobiology</i> , 1996 , 64, 552-63	3.6	83
313	Thermoluminescence in plants. <i>Physiologia Plantarum</i> , 1989 , 75, 121-130	4.6	83
312	Energetics of photosynthetic glow peaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1983 , 80, 983-7	11.5	83
311	A knowledge-based three dimensional model of the Photosystem II reaction center of Chlamydomonas reinhardtii. <i>Photosynthesis Research</i> , 1998 , 56, 229-254	3.7	82
310	The mechanism of photosynthetic water oxidation. <i>Photosynthesis Research</i> , 1985 , 6, 33-55	3.7	81
309	Primary electron transfer processes in photosynthetic reaction centers from oxygenic organisms. <i>Photosynthesis Research</i> , 2015 , 125, 51-63	3.7	80
308	Light intensity-dependent modulation of chlorophyll b biosynthesis and photosynthesis by overexpression of chlorophyllide a oxygenase in tobacco. <i>Plant Physiology</i> , 2012 , 159, 433-49	6.6	78
307	Primary photochemistry of the reaction center of photosystem I. FEBS Letters, 1979, 100, 1-4	3.8	78

306	Two forms of chlorophyll a in vivo with distinct photochemical functions. <i>Science</i> , 1960 , 132, 355-6	33.3	78	
305	Biological water oxidation: lessons from nature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 1110-21	4.6	76	
304	Inhibition of the reoxidation of the secondary electron acceptor of photosystem II by bicarbonate depletion. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1976 , 449, 602-5	4.6	76	
303	The slow S to M fluorescence rise in cyanobacteria is due to a state 2 to state 1 transition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 1237-47	4.6	75	
302	Oxygen evolving complex in photosystem II: better than excellent. <i>Dalton Transactions</i> , 2011 , 40, 9076-	84 .3	75	
301	Direct Measurement of the Effective Rate Constant for Primary Charge Separation in Isolated Photosystem II Reaction Centers. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 2251-2255	3.4	74	
300	Fluorescence Lifetime Imaging (FLI) in Real-Time - a New Technique in Photosynthesis Research. <i>Photosynthetica</i> , 2000 , 38, 581-599	2.2	74	
299	Photosystem II heterogeneity: the acceptor side. <i>Photosynthesis Research</i> , 1990 , 25, 151-60	3.7	74	
298	A major site of bicarbonate effect in system II reaction. Evidence from ESR signal IIvf, fast fluorescence yield changes and delayed light emission. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1976 , 440, 322-30	4.6	73	
297	Role of bicarbonate in photosystem II, the water-plastoquinone oxido-reductase of plant photosynthesis. <i>Physiologia Plantarum</i> , 1999 , 105, 585-592	4.6	71	
296	Influence of carbon dioxide concentration during growth on fluorescence induction characteristics of the Green Alga Chlamydomonas reinhardii. <i>Photosynthesis Research</i> , 1984 , 5, 169-76	3.7	68	
295	Effect of combining far-red light with shorter wave light on the excitation of fluorescence in Chlorella. <i>Archives of Biochemistry and Biophysics</i> , 1960 , 89, 322-3	4.1	68	
294	Electron transfer through the quinone acceptor complex of Photosystem II in bicarbonate-depleted spinach thylakoid membranes as a function of actinic flash number and frequency. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988 , 935, 237-247	4.6	67	
293	Low-temperature (4-77 degrees K) spectroscopy of Anacystis: temperature dependence of energy transfer efficiency. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1970 , 216, 151-61	4.6	66	
292	Polyphasic rise of chlorophyll a fluorescence in herbicide-resistant D1 mutants of Chlamydomonas reinardtii. <i>Photosynthesis Research</i> , 1995 , 43, 131-41	3.7	64	
291	Lumenal side histidine mutations in the D1 protein of Photosystem II affect donor side electron transfer in Chlamydomonas reinhardtii. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994 , 1185, 257-70	o ^{4.6}	64	
290	Conformation and activity of chloroplast coupling factor exposed to low chemical potential of water in cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1979 , 548, 328-40	4.6	63	
289	Transfer of the excitation energy in Anacystis nidulans grown to obtain different pigment ratios. Biophysical Journal, 1966, 6, 611-9	2.9	63	

288	Determination of the primary charge separation rate in Photosystem II reaction centers at 15 K. <i>Photosynthesis Research</i> , 1989 , 22, 89-99	3.7	62
287	Is bicarbonate in Photosystem II the equivalent of the glutamate ligand to the iron atom in bacterial reaction centers?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992 , 1100, 1-8	4.6	61
286	Electron transfer through the quinone acceptor complex of Photosystem II after one or two actinic flashes in bicarbonate-depleted spinach thylakoid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988 , 935, 248-257	4.6	61
285	Action Spectrum of the "Second Emerson Effect". <i>Biophysical Journal</i> , 1960 , 1, 73-89	2.9	61
284	Site of bicarbonate effect in Hill reaction. Evidence from the use of artificial electron acceptors and donors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1977 , 462, 208-14	4.6	60
283	Molecular mechanism of water oxidation in photosynthesis based on the functioning of manganese in two different environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 6119-23	11.5	59
282	ON THE ORIGIN OF GLOW PEAKS IN EUGLENA CELLS, SPINACH CHLOROPLASTS AND SUBCHLOROPLAST FRAGMENTS ENRICHED IN SYSTEM I OR II. <i>Photochemistry and Photobiology</i> , 1977 , 26, 33-39	3.6	59
281	Chlorophyll a fluorescence lifetime distributions in open and closed photosystem II reaction center preparations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990 , 1015, 173-9	4.6	58
280	Lifetime of the excited state in vivo. I. Chlorophyll a in algae, at room and at liquid nitrogen temperatures; rate constants of radiationless deactivation and trapping. <i>Biophysical Journal</i> , 1972 , 12, 797-808	2.9	58
279	Evolution of the Z-scheme of photosynthesis: a perspective. <i>Photosynthesis Research</i> , 2017 , 133, 5-15	3.7	56
278	Relation of membrane structural changes to energy spillover in oat and spinach chloroplasts: use of fluorescence probes and light scattering. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1974 , 368, 61-70	4.6	56
277	Investigation of the absorption changes of the plasto-quinone system in broken chloroplasts. The effect of bicarbonate-depletion. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1977 , 462, 196-207	4.6	56
276	Fluorescence lifetime imaging microscopy of Chlamydomonas reinhardtii: non-photochemical quenching mutants and the effect of photosynthetic inhibitors on the slow chlorophyll fluorescence transient. <i>Journal of Microscopy</i> , 2007 , 226, 90-120	1.9	55
275	Insight into the relationship of chlorophyll a fluorescence yield to the concentration of its natural quenchers in oxygenic photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 7466-9	11.5	55
274	Nuclear magnetic relaxation by the manganese in aqueous suspensions of chloroplasts. <i>Biochemistry</i> , 1978 , 17, 2155-62	3.2	55
273	Proton relaxation and charge accumulation during oxygen evolution in photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1976 , 73, 1196-8	11.5	54
272	Light-induced changes in the fluorescence yield of chlorophyll A in vivo. IV. The effect of preillumination on the fluorescence transient of Chlorella pyrenoidosa. <i>Biophysical Journal</i> , 1969 , 9, 22-	3 ² 5 ⁹	54
271	Emerson Enhancement Effect in Chloroplast Reactions. <i>Plant Physiology</i> , 1964 , 39, 10-4	6.6	54

(2011-1966)

270	Fluorescence studies on a red alga, Porphyridium cruentum. <i>Biochimica Et Biophysica Acta (BBA)</i> - <i>Biophysics Including Photosynthesis</i> , 1966 , 120, 1-18		54	
269	A Mutation in the D-de Loop of D1 Modifies the Stability of the S2QA- and S2QB- States in Photosystem II. <i>Plant Physiology</i> , 1995 , 107, 187-197	6.6	53	
268	Photosynthesis: basics, history and modelling. <i>Annals of Botany</i> , 2020 , 126, 511-537	4.1	53	
267	Photosynthetic glow peaks and their relationship with the free energy changes. <i>Photosynthesis Research</i> , 1990 , 24, 175-81	3.7	53	
266	A manganese oxide with phenol groups as a promising structural model for water oxidizing complex in Photosystem II: a 'golden fish'. <i>Dalton Transactions</i> , 2012 , 41, 3906-10	4.3	52	
265	Evidence for a close spatial location of the binding sites for CO2 and for photosystem II inhibitors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1981 , 634, 105-16	4.6	52	
264	Changes in intensity and spectral distribution of fluorescence. Effect of light treatment on normal and DCMU-poisoned Anacystis nidulans. <i>Biophysical Journal</i> , 1967 , 7, 375-89	2.9	52	
263	Spectral characteristic of fluorescence induction in a model cyanobacterium, Synechococcus sp. (PCC 7942). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 1170-8	4.6	51	
262	A role for a light-harvesting antenna complex of photosystem II in photoprotection. <i>Plant Cell</i> , 2002 , 14, 1663-8	11.6	50	
261	On the requirement of minimum number of four versus eight quanta of light for the evolution of one molecule of oxygen in photosynthesis: A historical note. <i>Photosynthesis Research</i> , 1999 , 59, 249-25	4 ^{3.7}	50	
260	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	
259	Water proton relaxation as a monitor of membrane-bound manganese in spinach chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1975 , 408, 349-54	4.6	49	
258	Global spectral-kinetic analysis of room temperature chlorophyll a fluorescence from light-harvesting antenna mutants of barley. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000 , 355, 1371-84	5.8	48	
257	Fluorescence spectra of Chlorella in the 295-77 degree K range. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1970 , 205, 371-8	4.6	48	
256	The slow S to M rise of chlorophyll a fluorescence reflects transition from state 2 to state 1 in the green alga Chlamydomonas reinhardtii. <i>Photosynthesis Research</i> , 2015 , 125, 219-31	3.7	47	
255	Antagonistic effect of mono- and divalent-cations on lifetime (tau) and quantum yield of fluorescence (phi) in isolated chloroplasts. <i>FEBS Letters</i> , 1977 , 75, 13-8	3.8	47	
254	CHLOROPHYLL FLUORESCENCE AND PHOTOSYNTHESIS: FLUORESCENCE TRANSIENTS 1971 , 1-46		47	
253	Adventures with cyanobacteria: a personal perspective. <i>Frontiers in Plant Science</i> , 2011 , 2, 28	6.2	46	

252	Chlorophyll a fluorescence of Gonyaulax polyedra grown on a light-dark cycle and after transfer to constant light. <i>Photochemistry and Photobiology</i> , 1979 , 30, 405-11	3.6	46
251	Action of hydroxylamine in the red alga Porphyridium cruentum. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1971 , 253, 213-21	4.6	46
250	Thermoluminescence and temperature effects on delayed light emission (corrected for changes in quantum yield of fluorescence) in DCMU-treated algae. <i>Photochemistry and Photobiology</i> , 1972 , 15, 331	-48	46
249	Silicomolybdate and silicotungstate mediated dichlorophenyldimethylurea-insensitive photosystem II reaction: electron flow, chlorophyll a fluorescence and delayed light emission changes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1975 , 387, 306-19	4.6	45
248	Femtosecond photodichroism studies of isolated photosystem II reaction centers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 8999-9003	11.5	44
247	The Effects of Bicarbonate Depletion and Formate Incubation on the Kinetics of Oxidation-Reduction Reactions of the Photosystem II Quinone Acceptor Complex. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1984 , 39, 382-385	1.7	44
246	The absorption of light in photosynthesis. <i>Scientific American</i> , 1974 , 231, 68-82	0.5	44
245	Maximum quantum yield and action spectrum of photosynthesis and fluorescence in Chlorella. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1968 , 162, 539-44	4.6	43
244	THE ROLE OF CHLOROPHYLL IN PHOTOSYNTHESIS. Scientific American, 1965, 213, 74-83	0.5	43
243	Role of Ions in the Regulation of Light-Harvesting. Frontiers in Plant Science, 2016, 7, 1849	6.2	43
242	Non-photochemical quenching of chlorophyll a fluorescence: early history and characterization of two xanthophyll-cycle mutants of Chlamydomonas reinhardtii. <i>Functional Plant Biology</i> , 2002 , 29, 1141-	1 ² 1 ⁷ 55	42
241	Kinetic models of oxygen evolution in photosynthesis. <i>Journal of Theoretical Biology</i> , 1972 , 36, 427-46	2.3	42
240	The Photosynthetic Process 1999 , 11-51		42
239	Photosystem II Reaction Center and Bicarbonate 1993 , 357-389		42
238	Photochemical properties of mesophyll and bundle sheath chloroplasts of maize. <i>Plant Physiology</i> , 1973 , 52, 257-62	6.6	41
237	Reactive oxygen species from chloroplasts contribute to 3-acetyl-5-isopropyltetramic acid-induced leaf necrosis of Arabidopsis thaliana. <i>Plant Physiology and Biochemistry</i> , 2012 , 52, 38-51	5.4	40
236	Bicarbonate, not CO2, is the species required for the stimulation of Photosystem II electron transport. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986 , 848, 147-51	4.6	40
235	Effects of Cations and Abscisic Acid on Chlorophyll a Fluorescence in Guard Cells of Vicia faba. <i>Plant Physiology</i> , 1982 , 69, 1140-4	6.6	40

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234	fluorescence yields in sucrose-washed spinach chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1975 , 376, 151-61	4.6	40	
233	Chlorophyll fluorescence characteristics of system I chlorophyll protein complex and system II particles at room and liquid nitrogen temperatures. <i>Plant and Cell Physiology</i> , 1972 , 13, 81-91	4.9	40	
232	Light-induced changes in the fluorescence yield of chlorophyll a in Anacystis nidulans. I. Relationship of slow fluorescence changes with structural changes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1973 , 305, 95-104	4.6	39	
231	Existence of Absorption Bands at 730-740 and 750-760 Millimicrons in Algae of Different Divisions. <i>Science</i> , 1961 , 134, 391-2	33.3	39	
230	A 2-(2-hydroxyphenyl)-1H-benzimidazole-manganese oxide hybrid as a promising structural model for the tyrosine 161/histidine 190-manganese cluster in photosystem II. <i>Dalton Transactions</i> , 2013 , 42, 879-84	4.3	38	
229	Analysis of the red absorption band of chlorophyll a in vivo. <i>Biochimica Et Biophysica Acta (BBA) - Biophysics Including Photosynthesis</i> , 1966 , 126, 1-12		38	
228	Photosystem II fluorescence lifetime imaging in avocado leaves: contributions of the lutein-epoxide and violaxanthin cycles to fluorescence quenching. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011 , 104, 271-84	6.7	37	
227	Manganese-histidine cluster as the functional center of the water oxidation complex in photosynthesis. <i>Photosynthesis Research</i> , 1986 , 9, 103-12	3.7	37	
226	Electron transfer through photosystem II acceptors: Interaction with anions. <i>Photosynthesis Research</i> , 1986 , 10, 365-79	3.7	37	
225	NMR study of chloride ion interactions with thylakoid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984 , 81, 3713-7	11.5	37	
224	ENERGY STORAGE STATES OF PHOTOSYNTHETIC MEMBRANES: ACTIVATION ENERGIES AND LIFETIMES OF ELECTRONS IN THE TRAP STATES BY THERMOLUMINESCENCE METHOD. <i>Photochemistry and Photobiology</i> , 1981 , 33, 243-251	3.6	37	
223	The effect of bicarbonate on photosynthetic oxygen evolution in flashing light in chloroplast fragments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1974 , 71, 4679-83	11.5	36	
222	Photosynthesis and Fast Changes in Light Emission by Green Plants 1979 , 125-205		36	
221	The AT thermoluminescence band from Chlamydomonas reinhardtii and the effects of mutagenesis of histidine residues on the donor side of the Photosystem II D1 polypeptide. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994 , 1185, 228-237	4.6	35	
220	Arginine residues in the D2 polypeptide may stabilize bicarbonate binding in photosystem II of Synechocystis sp. PCC. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991 , 1059, 171-80	4.6	35	
219	Characterization of the Inhibition of Photosynthetic Electron Transport in Pea Chloroplasts by the Herbicide 4,6-Dinitro-o-cresol by Comparative Studies with 3-(3,4-Dichlorophenyl)-1,1-dimethylurea. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1978 , 33, 413-420	1.7	35	
218	Bicarbonate effects in leaf discs from spinach. <i>Photosynthesis Research</i> , 1990 , 24, 189-200	3.7	34	
217	The active chlorophyll a ii in suspensions of lyophilized and tris-washed chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1970 , 205, 303-6	4.6	34	

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60	Honoring George C. Papageorgiou. <i>Photosynthetica</i> , 2016 , 54, 158-160	2.2	4
59	A tribute to Thomas Roosevelt Punnett, Jr. (1926-2008). <i>Photosynthesis Research</i> , 2011 , 110, 1-7	3.7	4
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56	Natural variation in the fast phase of chlorophyll a fluorescence induction curve (OJIP) in a global rice minicore panel. <i>Photosynthesis Research</i> , 2021 , 150, 137-158	3.7	4
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52	Regulation of Photosynthesis in Bloom-Forming Cyanobacteria with the Simplest Diketone. <i>Environmental Science & Environmental Science & Environmental</i>	10.3	4	
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50	Remembering Professor Prasanna K. Mohanty (April 1, 1934 [March 9, 2013). <i>Current Plant Biology</i> , 2018 , 13, 2-5	3.3	3	
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48	Colin A. Wraight. <i>Photosynthetica</i> , 2015 , 53, 478-480	2.2	3	
47	Young research investigators honored at the 2008 and 2009 Gordon Research Conferences on photosynthesis: ambiance and a personal perspective. <i>Photosynthesis Research</i> , 2009 , 102, 1-6	3.7	3	
46	High misses after odd flashes in oxygen evolution in thoroughly dark-adapted thylakoids from pea and Chenopodium album. <i>Photosynthesis Research</i> , 1993 , 38, 309-14	3.7	3	
45	Absence of some free amino acids from the diseased leaves of Trichosanthes anguina. <i>Die Naturwissenschaften</i> , 1956 , 43, 301-301	2	3	
44	Effect of X-rays on the content of tree amino acids and amides of cicer arietinum T 87 seedlings. <i>Die Naturwissenschaften</i> , 1957 , 44, 183-183	2	3	
43	Development of a minimized model structure and a feedback control framework for regulating photosynthetic activities. <i>Photosynthesis Research</i> , 2020 , 146, 213-225	3.7	3	
42	Plant lectins and their many roles: Carbohydrate-binding and beyond. <i>Journal of Plant Physiology</i> , 2021 , 266, 153531	3.6	3	
41	Remembering Navasard V. Karapetyan (1936-2015). Photosynthesis Research, 2017, 132, 221-226	3.7	2	
40	Albert W. Frenkel (1919-2015): photosynthesis research pioneer, much-loved teacher, and scholar. <i>Photosynthesis Research</i> , 2015 , 124, 243-7	3.7	2	
39	Hartmut Lichtenthaler: an authority on chloroplast structure and isoprenoid biochemistry. <i>Photosynthesis Research</i> , 2016 , 128, 117-23	3.7	2	
38	Jalal A. Aliyev (1928-2016): a great scientist, a great teacher and a great human being. <i>Photosynthesis Research</i> , 2016 , 128, 219-22	3.7	2	
37	Paul Henry Latimer (1925-2011): discoverer of selective scattering in photosynthetic systems. <i>Photosynthesis Research</i> , 2017 , 134, 83-91	3.7	2	

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35	Martin Gibbs and the peaceful uses of nuclear radiation, (14)C. <i>Photosynthesis Research</i> , 2009 , 99, 63-80	3.7	2
34	List of biography and history published mostly in Photosynthesis Research, 1988 2 008. <i>Photosynthesis Research</i> , 2009 , 99, 139-153	3.7	2
33	A tribute to Achim Trebst, a friend. <i>Photosynthesis Research</i> , 2009 , 100, 113-5	3.7	2
32	Differential Inhibition and Rephasing of Photosystem II Electron Acceptor Side by Monohalogenated Acetates of Different Hydrophobicity. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1992 , 47, 711-716	1.7	2
31	Publications of Warren L. Butler on photosynthesis. <i>Photosynthesis Research</i> , 1986 , 10, 151-61	3.7	2
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29	Satish Chandra Maheshwari (1933-2019)-a brilliant, passionate and an outstanding shining light for all of plant biology. <i>Physiology and Molecular Biology of Plants</i> , 2020 , 26, 1087-1098	2.8	2
28	Temperature and Lipid Unsaturation Effects on Plasma and Thylakoid Membranes of Synechocystis sp PCC6803 1998 , 2485-2488		2
27	A tribute to Maarib (Darwish Lutfi Bakri) Bazzaz (1940\(\text{D}020 \)): the one who proved the existence of Elewl\(\text{Ehlorophylls in plants.} \) Plant Physiology Reports, 2020 , 25, 377-385	1.4	2
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23	Remembering Otto Kandler (1920-2017) and his contributions. <i>Photosynthesis Research</i> , 2018 , 137, 337-	349	1
22	The 10th international conference on P hotosynthesis 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> , 2019 , 44, 30927-30934	6.7	1
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19	Effects of Salt Stress on Photosystem II Efficiency and CO2 Assimilation in Two Syrian Barley Landraces. <i>Advanced Topics in Science and Technology in China</i> , 2013 , 768-772	0.2	1

18	Evolution of the Z-Scheme of Electron Transport in Oxygenic Photosynthesis. <i>Advanced Topics in Science and Technology in China</i> , 2013 , 827-833	0.2	1
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