

Govindjee Govindjee

List of Publications by Year in descending order

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375
papers

18,694
citations

11651

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docs citations

403
times ranked

8431
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#	ARTICLE	IF	CITATIONS
1	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, 236-257.	3.8	880
2	Light Absorption and Energy Transfer in the Antenna Complexes of Photosynthetic Organisms. <i>Chemical Reviews</i> , 2017, 117, 249-293.	47.7	802
3	Overexpression of β -tocopherol methyl transferase gene in transgenic <i>Brassica juncea</i> plants alleviates abiotic stress: Physiological and chlorophyll a fluorescence measurements. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1428-1438.	1.0	442
4	Effects of salt stress on photosystem II efficiency and CO ₂ assimilation of two Syrian barley landraces. <i>Environmental and Experimental Botany</i> , 2011, 73, 64-72.	4.2	378
5	Spectral Signatures of Photosynthesis. I. Review of Earth Organisms. <i>Astrobiology</i> , 2007, 7, 222-251.	3.0	313
6	Chlorophyll a fluorescence induction: Can just a one-second measurement be used to quantify abiotic stress responses?. <i>Photosynthetica</i> , 2018, 56, 86-104.	1.7	305
7	Spectral Signatures of Photosynthesis. II. Coevolution with Other Stars And The Atmosphere on Extrasolar Worlds. <i>Astrobiology</i> , 2007, 7, 252-274.	3.0	253
8	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.	3.2	252
9	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.	2.1	251
10	Chlorophyll a fluorescence induction: a personal perspective of the thermal phase, the ΔF rise. <i>Photosynthesis Research</i> , 2012, 113, 15-61.	2.9	250
11	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, 180-188.	1.0	244
12	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, 2273-2277.	7.1	239
13	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, 339-354.	2.9	219
14	A viewpoint: Why chlorophyll a?. <i>Photosynthesis Research</i> , 2009, 99, 85-98.	2.9	195
15	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, 524-528.	7.1	194
16	Light-Induced Changes in the Fluorescence Yield of Chlorophyll a In Vivo. <i>Biophysical Journal</i> , 1969, 9, 1-21.	0.5	191
17	The Polyphosphate Bodies of <i>Chlamydomonas reinhardtii</i> Possess a Proton-pumping Pyrophosphatase and Are Similar to Acidocalcisomes. <i>Journal of Biological Chemistry</i> , 2001, 276, 46196-46203.	3.4	184
18	Chlorophyll a Fluorescence Induction in Higher Plants: Modelling and Numerical Simulation. <i>Journal of Theoretical Biology</i> , 1998, 193, 131-151.	1.7	170

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19	Chlorophyll a Fluorescence: A Bit of Basics and History. , 2004, , 1-41.		157
20	THE ELECTRON DONOR SIDE OF PHOTOSYSTEM II: THE OXYGEN EVOLVING COMPLEX. Photochemistry and Photobiology, 1985, 42, 187-210.	2.5	154
21	Quantitative Analysis of the Effects of Intrathylakoid pH and Xanthophyll Cycle Pigments on Chlorophyll a Fluorescence Lifetime Distributions and Intensity in Thylakoids. Biochemistry, 1998, 37, 13582-13593.	2.5	149
22	Photosynthesis: basics, history and modelling. Annals of Botany, 2020, 126, 511-537.	2.9	147
23	A new site of bicarbonate effect in Photosystem II of photosynthesis: Evidence from chlorophyll fluorescence transients in spinach chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1975, 387, 403-408.	1.0	143
24	Modeling chlorophyll a fluorescence transient: Relation to photosynthesis. Biochemistry (Moscow), 2014, 79, 291-323.	1.5	143
25	Photosystem II and the unique role of bicarbonate: A historical perspective. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1134-1151.	1.0	141
26	Experimental in vivo measurements of light emission in plants: a perspective dedicated to David Walker. Photosynthesis Research, 2012, 114, 69-96.	2.9	134
27	Charge accumulation and photochemistry in leaves studied by thermoluminescence and delayed light emission. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 1107-1111.	7.1	132
28	Thermoluminescence from the photosynthetic apparatus. Photosynthesis Research, 1996, 48, 117-126.	2.9	130
29	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. Photosynthetica, 1999, 37, 365.	1.7	129
30	Photosystem II fluorescence: Slow changes in scaling from the past. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 258-270.	3.8	128
31	Structure of the Red Fluorescence Band in Chloroplasts. Journal of General Physiology, 1966, 49, 763-780.	1.9	122
32	The molecular mechanism of the bicarbonate effect at the plastoquinone reductase site of photosynthesis. Photosynthesis Research, 1988, 19, 85-128.	2.9	122
33	Bicarbonate Ion as a Critical Factor in Photosynthetic Oxygen Evolution. Plant Physiology, 1973, 52, 119-123.	4.8	121
34	Light Intensity-Dependent Modulation of Chlorophyll <i>b</i> Biosynthesis and Photosynthesis by Overexpression of Chlorophyllide <i>a</i> Oxygenase in Tobacco. Plant Physiology, 2012, 159, 433-449.	4.8	119
35	Modeling of the D1/D2 proteins and cofactors of the photosystem II reaction center: Implications for herbicide and bicarbonate binding. Protein Science, 1996, 5, 2054-2073.	7.6	116
36	Chlorophyll A fluorescence transient as an indicator of water potential of leaves. Plant Science Letters, 1981, 20, 191-194.	1.8	114

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37	Light-Induced Changes in the Fluorescence Yield of Chlorophyll a In Vivo. Biophysical Journal, 1968, 8, 1299-1315.	0.5	113
38	Primary electron transfer processes in photosynthetic reaction centers from oxygenic organisms. Photosynthesis Research, 2015, 125, 51-63.	2.9	110
39	Bicarbonate effects on the electroon flow in isolated broken chloroplasts chloroplasts. Biochimica Et Biophysica Acta - Reviews on Bioenergetics, 1978, 505, 183-213.	0.2	104
40	Low-temperature (4â€“77Â°K) spectroscopy of chlorella; temperature dependence of energy transfer efficiency. Biochimica Et Biophysica Acta - Bioenergetics, 1970, 216, 139-150.	1.0	102
41	Light-Induced Changes in the Fluorescence Yield of Chlorophyll a In Vivo. Biophysical Journal, 1968, 8, 1316-1328.	0.5	99
42	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. Photosynthesis Research, 1996, 48, 171-187.	2.9	99
43	A model for the mechanism of chloride activation of oxygen evolution in photosystem II. Photosynthesis Research, 1987, 13, 199-223.	2.9	97
44	Two Forms of Chlorophyll a in vivo with Distinct Photochemical Functions. Science, 1960, 132, 355-356.	12.6	96
45	Light-induced slow changes in chlorophyll a fluorescence in isolated chloroplasts: Effects of magnesium and phenazine methosulfate. Biochimica Et Biophysica Acta - Bioenergetics, 1973, 292, 459-476.	1.0	96
46	Discoveries in Oxygenic Photosynthesis (1727â€“2003): A Perspective. Photosynthesis Research, 2004, 80, 15-58.	2.9	95
47	The rate of formation of P700+?A0 - in photosystem I particles from spinach as measured by picosecond transient absorption spectroscopy. Photosynthesis Research, 1987, 12, 181-189.	2.9	94
48	Primary photochemistry of the reaction center of photosystem I. FEBS Letters, 1979, 100, 1-4.	2.8	93
49	Energetics of photosynthetic glow peaks. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 983-987.	7.1	93
50	The slow S to M fluorescence rise in cyanobacteria is due to a state 2 to state 1 transition. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1237-1247.	1.0	92
51	Thermoluminescence in plants. Physiologia Plantarum, 1989, 75, 121-130.	5.2	91
52	Evolution of the Z-scheme of photosynthesis: a perspective. Photosynthesis Research, 2017, 133, 5-15.	2.9	91
53	Effects of Cadmium Nitrate on Spectral Characteristics and Light Reactions of Chloroplasts. Environmental Letters, 1974, 6, 1-12.	0.3	89
54	The role of chloride in O2 evolution by thylakoids from salt-tolerant higher plants. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 682, 436-445.	1.0	88

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55	Comparative Time-Resolved Photosystem II Chlorophyll <i>a</i> Fluorescence Analyses Reveal Distinctive Differences between Photoinhibitory Reaction Center Damage and Xanthophyll Cycle-Dependent Energy Dissipation*. <i>Photochemistry and Photobiology</i> , 1996, 64, 552-563.	2.5	87
56	The mechanism of photosynthetic water oxidation. <i>Photosynthesis Research</i> , 1985, 6, 33-55.	2.9	84
57	Title is missing!. <i>Photosynthesis Research</i> , 1998, 56, 229-254.	2.9	84
58	Fluorescence Lifetime Imaging (FLI) in Real-Time - a New Technique in Photosynthesis Research. <i>Photosynthetica</i> , 2000, 38, 581-599.	1.7	84
59	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.	2.6	83
60	Role of bicarbonate in photosystem II, the water-plastoquinone oxido-reductase of plant photosynthesis. <i>Physiologia Plantarum</i> , 1999, 105, 585-592.	5.2	83
61	Oxygen evolving complex in Photosystem II: Better than excellent. <i>Dalton Transactions</i> , 2011, 40, 9076.	3.3	83
62	Biological water oxidation: Lessons from Nature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1110-1121.	1.0	82
63	Inhibition of the reoxidation of the secondary electron acceptor of Photosystem II by bicarbonate depletion. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1976, 449, 602-605.	1.0	81
64	A major site of bicarbonate effect in system II reaction. Evidence from ESR signal I _{lvf} , fast fluorescence yield changes and delayed light emission. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1976, 440, 322-330.	1.0	78
65	Photosystem II heterogeneity: the acceptor side. <i>Photosynthesis Research</i> , 1990, 25, 151-160.	2.9	77
66	Influence of carbon dioxide concentration during growth on fluorescence induction characteristics of the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 1984, 5, 169-176.	2.9	76
67	Effect of combining far-red light with shorter wave light on the excitation of fluorescence in <i>Chlorella</i> . <i>Archives of Biochemistry and Biophysics</i> , 1960, 89, 322-323.	3.0	75
68	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.	1.0	75
69	Luminal side histidine mutations in the D1 protein of photosystem II affect donor side electron transfer in <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1185, 257-270.	1.0	72
70	Polyphasic rise of chlorophyll <i>a</i> fluorescence in herbicide-resistant D1 mutants of <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 1995, 43, 131-141.	2.9	71
71	CHLOROPHYLL FLUORESCENCE AND PHOTOSYNTHESIS: FLUORESCENCE TRANSIENTS. , 1971, , 1-46.		71
72	Action Spectrum of the "Second Emerson Effect". <i>Biophysical Journal</i> , 1960, 1, 73-89.	0.5	70

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73	Transfer of the Excitation Energy in <i>Anacystis nidulans</i> Grown to Obtain Different Pigment Ratios. <i>Biophysical Journal</i> , 1966, 6, 611-619.	0.5	70
74	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, 328-340.	1.0	70
75	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.	1.0	70
76	Low-temperature (4 \hat{A} 77 \hat{A} K) spectroscopy of <i>anacystis</i> ; temperature dependence of energy transfer efficiency. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1970, 216, 151-161.	1.0	69
77	Determination of the primary charge separation rate in Photosystem II reaction centers at 15 K. <i>Photosynthesis Research</i> , 1989, 22, 89-99.	2.9	68
78	The slow S to M rise of chlorophyll a fluorescence reflects transition from state 2 to state 1 in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2015, 125, 219-231.	2.9	68
79	Light regulation of light \hat{A} harvesting antenna size substantially enhances photosynthetic efficiency and biomass yield in green algae^{\hat{A}}. <i>Plant Journal</i> , 2020, 103, 584-603.	5.7	68
80	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, 6119-6123.	7.1	66
81	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.	1.0	66
82	The Photosynthetic Process. , 1999, , 11-51.		65
83	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, 208-214.	1.0	64
84	The Role of Chlorophyll in Photosynthesis. <i>Scientific American</i> , 1965, 213, 74-83.	1.0	63
85	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.	2.5	63
86	Fluorescence lifetime imaging microscopy of <i>Chlamydomonas reinhardtii</i> : 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.	1.8	63
87	Spectral characteristic of fluorescence induction in a model cyanobacterium, <i>Synechococcus</i> sp. (PCC 7942). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 1170-1178.	1.0	63
88	Photosynthetic glow peaks and their relationship with the free energy changes. <i>Photosynthesis Research</i> , 1990, 24, 175-181.	2.9	63
89	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, 7466-7469.	7.1	62
90	Role of Ions in the Regulation of Light-Harvesting. <i>Frontiers in Plant Science</i> , 2016, 7, 1849.	3.6	62

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91	Lifetime of the Excited State In Vivo. <i>Biophysical Journal</i> , 1972, 12, 797-808.	0.5	61
92	Chlorophyll a fluorescence lifetime distributions in open and closed Photosystem II reaction center preparations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990, 1015, 173-179.	1.0	61
93	Adventures with cyanobacteria: a personal perspective. <i>Frontiers in Plant Science</i> , 2011, 2, 28.	3.6	61
94	Emerson Enhancement Effect in Chloroplast Reactions. <i>Plant Physiology</i> , 1964, 39, 10-14.	4.8	60
95	Fluorescence studies on a red alga, <i>Porphyridium cruentum</i> . <i>Biochimica Et Biophysica Acta (BBA) - Biophysics Including Photosynthesis</i> , 1966, 120, 1-18.	2.3	60
96	The Absorption of Light in Photosynthesis. <i>Scientific American</i> , 1974, 231, 68-82.	1.0	60
97	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, 1196-1198.	7.1	60
98	Nuclear magnetic relaxation by the manganese in aqueous suspensions of chloroplasts. <i>Biochemistry</i> , 1978, 17, 2155-2162.	2.5	59
99	Light-Induced Changes in the Fluorescence Yield of Chlorophyll a In Vivo. <i>Biophysical Journal</i> , 1969, 9, 22-35.	0.5	58
100	Evidence for a close spatial location of the binding sites for CO ₂ and for Photosystem II inhibitors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1981, 634, 105-116.	1.0	58
101	Title is missing!. <i>Photosynthesis Research</i> , 1999, 59, 249-254.	2.9	58
102	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.	1.0	57
103	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.	1.0	57
104	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.	3.3	57
105	A Mutation in the D-de Loop of D1 Modifies the Stability of the S ₂ QA- and S ₂ QB- States in Photosystem II. <i>Plant Physiology</i> , 1995, 107, 187-197.	4.8	56
106	A Role for a Light-Harvesting Antenna Complex of Photosystem II in Photoprotection. <i>Plant Cell</i> , 2002, 14, 1663-1668.	6.6	55
107	Changes in Intensity and Spectral Distribution of Fluorescence. <i>Biophysical Journal</i> , 1967, 7, 375-389.	0.5	54
108	Mutagenesis of the D-E loop of photosystem II reaction centre protein D1. Function and assembly of photosystem II. <i>Plant Molecular Biology</i> , 1997, 33, 1059-1071.	3.9	54

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109	Changes in the photosynthesis properties and photoprotection capacity in rice (<i>Oryza sativa</i>) grown under red, blue, or white light. <i>Photosynthesis Research</i> , 2019, 139, 107-121.	2.9	54
110	Water proton relaxation as a monitor of membrane-bound manganese in spinach chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1975, 408, 349-354.	1.0	53
111	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, 1371-1384.	4.0	53
112	Maximum quantum yield and action spectrum of photosynthesis and fluorescence in <i>Chlorella</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1968, 162, 539-544.	1.0	52
113	Action of hydroxylamine in the red alga <i>Porphyridium cruentum</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1971, 253, 213-221.	1.0	51
114	How Plants Make Oxygen. <i>Scientific American</i> , 1990, 262, 50-58.	1.0	51
115	Fluorescence spectra of <i>Chlorella</i> in the 295-77 K range. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1970, 205, 371-378.	1.0	50
116	Silicomolybdate and silicotungstate mediated dichlorophenyl dimethylurea-insensitive Photosystem II reaction: Electron flow, chlorophyll a fluorescence and delayed light emission changes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1975, 387, 306-319.	1.0	50
117	Photosystem II Reaction Center and Bicarbonate. , 1993, , 357-389.		50
118	CHLOROPHYLL a FLUORESCENCE OF <i>GONYAULAX POLYEDRA</i> GROWN ON A LIGHT-DARK CYCLE AND AFTER TRANSFER TO CONSTANT LIGHT. <i>Photochemistry and Photobiology</i> , 1979, 30, 405-411.	2.5	49
119	Rice intermediate filament, OsIF, stabilizes photosynthetic machinery and yield under salinity and heat stress. <i>Scientific Reports</i> , 2018, 8, 4072.	3.3	49
120	THERMOLUMINESCENCE AND TEMPERATURE EFFECTS ON DELAYED LIGHT EMISSION (CORRECTED FOR) T_j ETQq0 0 0 rgBT /Overlock 1 <i>Photobiology</i> , 1972, 15, 331-348.	2.5	48
121	Antagonistic effect of mono- and divalent-cations on lifetime (\bar{I}_s) and quantum yield of fluorescence (\bar{I}_f) in isolated chloroplasts. <i>FEBS Letters</i> , 1977, 75, 13-18.	2.8	48
122	Reactive oxygen species from chloroplasts contribute to 3-acetyl-5-isopropyltetramic acid-induced leaf necrosis of <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2012, 52, 38-51.	5.8	48
123	Kinetic models of oxygen evolution in photosynthesis. <i>Journal of Theoretical Biology</i> , 1972, 36, 427-446.	1.7	46
124	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.	1.4	46
125	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.	7.1	46
126	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.	3.3	46

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127	Non-photochemical quenching of chlorophyll a fluorescence: early history and characterization of two xanthophyll-cycle mutants of <i>Chlamydomonas reinhardtii</i> . <i>Functional Plant Biology</i> , 2002, 29, 1141.	2.1	45
128	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, 271-284.	3.8	45
129	Towards efficient photosynthesis: overexpression of <i>Zea mays</i> phosphoenolpyruvate carboxylase in <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , 2016, 130, 47-72.	2.9	45
130	Effects of Cations and Abscisic Acid on Chlorophyll Fluorescence in Guard Cells of <i>Vicia faba</i> . <i>Plant Physiology</i> , 1982, 69, 1140-1144.	4.8	44
131	International Photosynthesis Congresses (1968-2007). <i>Photosynthesis Research</i> , 2006, 89, 1-2.	2.9	44
132	The slow phase of chlorophyll a fluorescence induction in silico: Origin of the S ₂ M fluorescence rise. <i>Photosynthesis Research</i> , 2016, 130, 193-213.	2.9	44
133	Existence of Absorption Bands at 730-740 and 750-760 Millimicrons in Algae of Different Divisions. <i>Science</i> , 1961, 134, 391-392.	12.6	43
134	Photochemical Properties of Mesophyll and Bundle Sheath Chloroplasts of Maize. <i>Plant Physiology</i> , 1973, 52, 257-262.	4.8	43
135	Manganese-histidine cluster as the functional center of the water oxidation complex in photosynthesis. <i>Photosynthesis Research</i> , 1986, 9, 103-112.	2.9	43
136	Plant lectins and their many roles: Carbohydrate-binding and beyond. <i>Journal of Plant Physiology</i> , 2021, 266, 153531.	3.5	43
137	Analysis of the red absorption band of chlorophyll in vivo. <i>Biochimica Et Biophysica Acta (BBA) - Biophysics Including Photosynthesis</i> , 1966, 126, 1-12.	2.3	42
138	Light-induced changes in the fluorescence yield of chlorophyll a in <i>Anacystis nidulans</i> . I. Relationship of slow fluorescence changes with structural changes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1973, 305, 95-104.	1.0	42
139	Effects of sodium and magnesium cations on the dark- and light-induced chlorophyll a fluorescence yields in sucrose-washed spinach chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1975, 376, 151-161.	1.0	42
140	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.	2.5	41
141	Bicarbonate, not CO ₂ , is the species required for the stimulation of Photosystem II electron transport. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986, 848, 147-151.	1.0	41
142	Electron transfer through photosystem II acceptors: Interaction with anions. <i>Photosynthesis Research</i> , 1986, 10, 365-379.	2.9	41
143	Photosynthesis and Fast Changes in Light Emission by Green Plants. , 1979, , 125-205.		41
144	Emission spectra of <i>Chlorella</i> at very low temperatures (269°K to 196°K). <i>Biochimica Et Biophysica Acta (BBA) - Biophysics Including Photosynthesis</i> , 1966, 126, 174-176.	2.3	40

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145	Chlorophyll fluorescence characteristics of system I chlorophyll $\hat{\pm}$ -protein complex and system II particles at room and liquid nitrogen temperatures. <i>Plant and Cell Physiology</i> , 1972, 13, 81-91.	3.1	40
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290	Cation Effects on System II Reactions in Thylakoids: Measurements on Oxygen Evolution, the Electrochromic Change at 515 Nanometers, the Primary Acceptor and the Primary Donor. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1979, 34, 826-830.	1.4	8
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292	A tribute to Seymour Steven Brody: in memoriam (November 29, 1927 to May 25, 2010). <i>Photosynthesis Research</i> , 2010, 106, 191-199.	2.9	8
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294	Remembering Melvin Calvin (1911â€“1997), a highly versatile scientist of the 20th century. <i>Photosynthesis Research</i> , 2020, 143, 1-11.	2.9	8
295	12-(9-Anthroyl)-stearic acid and atebirin as fluorescence probes for energetic states of chloroplasts. <i>FEBS Letters</i> , 1974, 45, 186-190.	2.8	7
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297	Four young research investigators were honored at the 2006 Gordon Research Conference on Photosynthesis. <i>Photosynthesis Research</i> , 2007, 92, 137-138.	2.9	7
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299	David W. Krogmann, 1931â€“2016. <i>Photosynthesis Research</i> , 2017, 132, 1-12.	2.9	7
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309	Andr� Tridon Jagendorf (1926�2017): a personal tribute. <i>Photosynthesis Research</i> , 2017, 132, 235-243.	2.9	6
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311	Fluorescence studies with algae: changes with time and preillumination. <i>Brookhaven Symposia in Biology</i> , 1966, 19, 434-45.	0.2	6
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316	Thomas John Wydrzynski (8 July 1947�16 March 2018). <i>Photosynthesis Research</i> , 2019, 140, 253-261.	2.9	5
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323	Vallabhaneni Sita Rama Das, 1933�2010: teacher and mentor. <i>Photosynthesis Research</i> , 2016, 128, 109-115.	2.9	4
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326	Effect of X-rays on the content of free amino acids and amides of <i>cicer arietinum</i> T 87 seedlings. <i>Die Naturwissenschaften</i> , 1957, 44, 183-183.	1.6	3
327	NMR Studies on Chloroplast Membranes. <i>ACS Symposium Series</i> , 1976, , 471-482.	0.5	3
328	High misses after odd flashes in oxygen evolution in thoroughly dark-adapted thylakoids from pea and <i>Chenopodium album</i> . <i>Photosynthesis Research</i> , 1993, 38, 309-314.	2.9	3
329	Six young research investigators were honored at an international conference in Russia. <i>Photosynthesis Research</i> , 2007, 92, 139-141.	2.9	3
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331	Alexander Abramovich Krasnovsky (1913â€“1993): 100th birth anniversary in Moscow, Russia. <i>Photosynthesis Research</i> , 2014, 120, 347-353.	2.9	3
332	Albert W. Frenkel (1919â€“2015): photosynthesis research pioneer, much-loved teacher, and scholar. <i>Photosynthesis Research</i> , 2015, 124, 243-247.	2.9	3
333	Paul Henry Latimer (1925â€“2011): discoverer of selective scattering in photosynthetic systems. <i>Photosynthesis Research</i> , 2017, 134, 83-91.	2.9	3
334	Frederick Yi-Tung Cho (1939â€“2011). <i>Photosynthesis Research</i> , 2017, 132, 227-234.	2.9	3
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340	Honoring Bacon Ke at 100: a legend among the many luminaries and a highly collaborative scientist in photosynthesis research. <i>Photosynthesis Research</i> , 2021, 147, 243-252.	2.9	3
341	Martin David Kamen (1913â€“2002): discoverer of carbon 14, and of new cytochromes in photosynthetic bacteria. <i>Photosynthesis Research</i> , 2021, 149, 265-273.	2.9	3
342	Satish Chandra Maheshwari (1933â€“2019)â€”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.	3.1	3

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345	Celebrating 20 years of historical papers in <i>Photosynthesis Research</i> <i>Photosynthesis Research</i> , 2006, 87, 151-158.	2.9	2
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359	Effect of X-rays on the oxygen uptake of <i>Cicer arietinum</i> T 87 seedlings. <i>Die Naturwissenschaften</i> , 1956, 43, 524-524.	1.6	1
360	Photoprotection, Photoinhibition, Gene Regulation, and Environment, Volume 21, <i>Advances in Photosynthesis and Respiration</i> , Springer, Dordrecht. <i>Photosynthesis Research</i> , 2006, 89, 53-57.	2.9	1

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