A William Rutherford

List of Publications by Year
in descending order

222 papers	16,162 citations	7551 77 h-index	20307 116 g-index
238 all docs	238 docs citations	238 times ranked	6753 citing authors

#	Article	IF	Citations
1	Charge separation in Photosystem II: A comparative and evolutionary overview. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 26-43.	0.5	293
2	Artificial photosynthesis as a frontier technology for energy sustainability. Energy and Environmental Science, 2013, 6, 1074.	15.6	284
3	EPR signals from modified charge accumulation states of the oxygen-evolving enzyme in calcium-deficient photosystem II. Biochemistry, 1989, 28, 8984-8989.	1.2	280
4	Photosystem II, the water-splitting enzyme. Trends in Biochemical Sciences, 1989, 14, 227-232.	3.7	279
5	In the oxygen-evolving complex of photosystem II the S0 state is oxidized to the S1 state by D+ (signal) Tj ETQq1 1 0.784314 rgBT /Ove	1.2	273
6	Site-directed mutagenesis in photosystem II of the cyanobacterium Synechocystis sp. PCC 6803: Donor D is a tyrosine residue in the D2 protein. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 8477-8481.	3.3	271
7	Thermoluminescence as a probe of Photosystem II photochemistry. The origin of the flash-induced glow peaks. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 682, 457-465.	0.5	270
8	Herbicide-induced oxidative stress in photosystem II. Trends in Biochemical Sciences, 2001, 26, 648-653.	3.7	270
9	Energy and environment policy case for a global project on artificial photosynthesis. Energy and Environmental Science, 2013, 6, 695.	15.6	264
10	Nature of the inhibition of the oxygen-evolving enzyme of photosystem II induced by sodium chloride washing and reversed by the addition of calcium(2+) or strontium(2+). Biochemistry, 1988, 27, 3476-3483.	1.2	262
11	Histidine oxidation in the oxygen-evolving photosystem-II enzyme. Nature, 1990, 347, 303-306.	13.7	246
12	Backâ€reactions, shortâ€circuits, leaks and other energy wasteful reactions in biological electron transfer: Redox tuning to survive life in O₂. FEBS Letters, 2012, 586, 603-616.	1.3	234
13	Wiring of Photosystem II to Hydrogenase for Photoelectrochemical Water Splitting. Journal of the American Chemical Society, 2015, 137, 8541-8549.	6.6	228
14	Photochemistry beyond the red limit in chlorophyll fâ€"containing photosystems. Science, 2018, 360, 1210-1213.	6.0	216
15	Effect of Ca²⁺/Sr²⁺ Substitution on the Electronic Structure of the Oxygen-Evolving Complex of Photosystem II: A Combined Multifrequency EPR, ⁵⁵Mn-ENDOR, and DFT Study of the S₂ State. Journal of the American Chemical Society, 2011, 133, 3635-3648.	6.6	211
16	Photosynthetic reaction centres: variations on a common structural theme?. Trends in Biochemical Sciences, 1991, 16, 241-245.	3.7	209
17	Electron paramagnetic resonance properties of the S2 state of the oxygen-evolving complex of photosystem II. Biochemistry, 1986, 25, 4609-4615.	1.2	206
18	Photoelectrochemical Water Oxidation with Photosystem II Integrated in a Mesoporous Indiumâ€"Tin Oxide Electrode. Journal of the American Chemical Society, 2012, 134, 8332-8335.	6.6	199

#	Article	IF	Citations
19	EPR studies of the oxygen-evolving enzyme of Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 767, 160-167.	0.5	186
20	Carotenoid Oxidation in Photosystem IIâ€. Biochemistry, 1999, 38, 8189-8195.	1.2	183
21	Singlet oxygen production in herbicide-treated photosystem II. FEBS Letters, 2002, 532, 407-410.	1.3	167
22	A change in the midpoint potential of the quinone QA in Photosystem II associated with photoactivation of oxygen evolution. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1229, 202-207.	0.5	166
23	Influence of Herbicide Binding on the Redox Potential of the Quinone Acceptor in Photosystem II:â€‰ Relevance to Photodamage and Phytotoxicity. Biochemistry, 1998, 37, 17339-17344.	1.2	161
24	Conversion of the Spin State of the Manganese Complex in Photosystem II Induced by Near-Infrared Light. Biochemistry, 1996, 35, 6984-6989.	1.2	159
25	Photosystem II and photosynthetic oxidation of water: an overview. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1369-1381.	1.8	151
26	On the determination of redox midpoint potential of the primary quinone electron acceptor, QA, in Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1229, 193-201.	0.5	145
27	Biosynthetic Ca2+/Sr2+ Exchange in the Photosystem II Oxygen-evolving Enzyme of Thermosynechococcus elongatus. Journal of Biological Chemistry, 2004, 279, 22809-22819.	1.6	145
28	EPR evidence for a modified S-state transition in chloride-depleted Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 851, 193-201.	0.5	141
29	g-Values as a Probe of the Local Protein Environment: High-Field EPR of Tyrosyl Radicals in Ribonucleotide Reductase and Photosystem II. Journal of the American Chemical Society, 1995, 117, 10713-10719.	6.6	141
30	A new EPR signal attributed to the primary plastosemiquinone acceptor in Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 767, 168-175.	0.5	139
31	Charge Recombination Reactions in Photosystem II. 1. Yields, Recombination Pathways, and Kinetics of the Primary Pair. Biochemistry, 1995, 34, 4798-4813.	1.2	138
32	Primary photochemistry in photosystem-I. Photosynthesis Research, 1985, 6, 295-316.	1.6	136
33	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.	3.3	132
34	Orientation of EPR signals arising from components in Photosystem II membranes. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 807, 189-201.	0.5	130
35	Deactivation kinetics and temperature dependence of the S-state transitions in the oxygen-evolving system of Photosystem II measured by EPR spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 933, 378-387.	0.5	126
36	A light-induced spin-polarized triplet detected by EPR in Photosystem II reaction centers. Biochimica Et Biophysica Acta - Bioenergetics, 1981, 635, 205-214.	0.5	125

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37	A chlorophyll tilted 30Â° relative to the membrane in the Photosystem II reaction centre. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1058, 379-385.	0.5	125
38	Mechanism of proton-coupled quinone reduction in Photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 954-959.	3.3	125
39	BIOCHEMISTRY: Water Photolysis in Biology. Science, 2004, 303, 1782-1784.	6.0	122
40	Inhibition of tyrosine Z photooxidation after formation of the S3-state in calcium-depleted and chloride-depleted photosystem-II. Biochemistry, 1992, 31, 1224-1234.	1.2	119
41	Thermoluminescence as a probe of photosystem II. The redox and protonation states of the secondary acceptor quinone and the O2-evolving enzyme. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 767, 548-556.	0.5	118
42	Rapid formation of the stable tyrosyl radical in photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14368-14373.	3.3	118
43	X-ray crystallography identifies two chloride binding sites in the oxygen evolving centre of Photosystem II. Energy and Environmental Science, 2008, 1, 161.	15.6	118
44	Hydroxyl Radical Generation by Photosystem IIâ€. Biochemistry, 2004, 43, 6783-6792.	1.2	117
45	Photosynthetic reaction center of green sulfur bacteria studied by EPR. Biochemistry, 1990, 29, 3834-3842.	1.2	112
46	Resolving intermediates in biological proton-coupled electron transfer: A tyrosyl radical prior to proton movement. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8732-8735.	3.3	112
47	Covalent Immobilization of Oriented Photosystem II on a Nanostructured Electrode for Solar Water Oxidation. Journal of the American Chemical Society, 2013, 135, 10610-10613.	6.6	112
48	Energetics of proton release on the first oxidation step in the water-oxidizing enzyme. Nature Communications, 2015, 6, 8488.	5.8	111
49	The microwave power saturation of SIIslow varies with the redox state of the oxygen-evolving complex in photosystem II. Biochemistry, 1988, 27, 4915-4923.	1.2	110
50	Bicarbonate-induced redox tuning in Photosystem II for regulation and protection. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12144-12149.	3.3	107
51	Photosystem II: evolutionary perspectives. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 245-253.	1.8	106
52	Photoreductant-induced oxidation of Fe2+ in the electron-acceptor complex of Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 851, 416-423.	0.5	105
53	High-Spin States (Sâ‰¥5/2) of the Photosystem II Manganese Complex. Biochemistry, 1998, 37, 4001-4007.	1.2	102
54	EPR measurements on the effects of bicarbonate and triazine resistance on the acceptor side of Photosystem II. FEBS Letters, 1984, 175, 243-248.	1.3	101

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55	A systematic survey of conserved histidines in the core subunits of Photosystem I by site-directed mutagenesis reveals the likely axial ligands of P700. EMBO Journal, 1998, 17, 50-60.	3.5	101
56	Limitations to photosynthesis by proton motive force-induced photosystem II photodamage. ELife, 2016, 5, .	2.8	101
57	Characterization of four herbicide-resistant mutants of Rhodopseudomonas viridis by genetic analysis, electron paramagnetic resonance, and optical spectroscopy. Biochemistry, 1989, 28, 5544-5553.	1.2	99
58	Artificial photosynthetic systems. Using light and water to provide electrons and protons for the synthesis of a fuel. Energy and Environmental Science, 2011, 4, 2353.	15.6	99
59	The stable tyrosyl radical in Photosystem II: why D?. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 222-230.	0.5	98
60	Photoelectrochemistry of Photosystem II <i>in Vitro</i> vs <i>in Vivo</i>. Journal of the American Chemical Society, 2018, 140, 6-9.	6.6	98
61	Î²-Carotene Redox Reactions in Photosystem II:Â Electron Transfer Pathwayâ€. Biochemistry, 2001, 40, 6431-6440.	1.2	97
62	Artificial systems related to light driven electron transfer processes in PSII. Coordination Chemistry Reviews, 2008, 252, 456-468.	9.5	96
63	Origin and Evolution of Water Oxidation before the Last Common Ancestor of the Cyanobacteria. Molecular Biology and Evolution, 2015, 32, 1310-1328.	3.5	96
64	Early Archean origin of Photosystem <scp>II</scp>. Geobiology, 2019, 17, 127-150.	1.1	95
65	Genetically engineered mutant of the cyanobacterium Synechocystis 6803 lacks the photosystem II chlorophyll-binding protein CP-47. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 9474-9477.	3.3	94
66	Factors influencing the formation of modified S2EPR signal and the S3EPR signal in Ca2+-depleted photosystem II. FEBS Letters, 1990, 277, 69-74.	1.3	94
67	The origin of 40â€“50Â°C thermoluminescence bands in Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1184, 85-92.	0.5	94
68	Redox-coupled substrate water reorganization in the active site of Photosystem IIâ€"The role of calcium in substrate water delivery. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 740-748.	0.5	94
69	Reaction center triplet states in Photosystem I and Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1981, 635, 225-235.	0.5	93
70	Direct measurement of the redox potential of the primary and secondary quinone electron acceptors in Rhodopseudomonas sphaeroides (wild-type) by EPR Spectrometry. FEBS Letters, 1980, 110, 257-261.	1.3	91
71	Electron transfer pathways from the S 2 -states to the S 3 -states either after a Ca 2+ /Sr 2+ or a Cl âˆ' /I âˆ' exchange in Photosystem II from Thermosynechococcus elongatus. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 576-586.	0.5	89
72	Charge Recombination Reactions in Photosystem II. 2. Transient Absorbance Difference Spectra and Their Temperature Dependence. Biochemistry, 1995, 34, 4814-4827.	1.2	88

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73	Properties of the Chloride-Depleted Oxygen-Evolving Complex of Photosystem II Studied by Electron Paramagnetic Resonance. Biochemistry, 1996, 35, 1829-1839.	1.2	85
74	Reaction center photochemistry of Heliobacterium chlorum. Biochemistry, 1990, 29, 11079-11088.	1.2	84
75	Complete EPR Spectrum of the S₃-State of the Oxygen-Evolving Photosystem II. Journal of the American Chemical Society, 2009, 131, 5050-5051.	6.6	83
76	The electronic structures of the S2 states of the oxygen-evolving complexes of photosystem II in plants and cyanobacteria in the presence and absence of methanol. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 829-840.	0.5	81
77	Ca2+ binding to the oxygen evolving enzyme varies with the redox state of the Mn cluster. FEBS Letters, 1988, 236, 432-436.	1.3	80
78	Measurement of the midpoint potential of the pheophytin acceptor of photosystem II. FEBS Letters, 1981, 123, 235-237.	1.3	78
79	Oscillation of delayed luminescence from PS II: recombination of S2 Qâˆ’ B and S3 Qâˆ’ B. FEBS Letters, 1984, 165, 163-170.	1.3	78
80	Interaction of ammonia with the water splitting enzyme of photosystem II. Biochemistry, 1990, 29, 24-32.	1.2	78
81	Orientation of the Phylloquinone Electron Acceptor Anion Radical in Photosystem I. Biochemistry, 1997, 36, 9297-9303.	1.2	78
82	Orientation of the Tyrosyl D, Pheophytin Anion, and Semiquinone QAâ€¢-Radicals in Photosystem II Determined by High-Field Electron Paramagnetic Resonanceâ€. Biochemistry, 2000, 39, 7826-7834.	1.2	77
83	The low spin - high spin equilibrium in the S2-state of the water oxidizing enzyme. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 342-356.	0.5	77
84	Influence of the Redox Potential of the Primary Quinone Electron Acceptor on Photoinhibition in Photosystem II. Journal of Biological Chemistry, 2007, 282, 12492-12502.	1.6	75
85	Tetraheme cytochrome c subunit of Rhodopseudomonas viridis characterized by EPR. Biochemistry, 1989, 28, 3161-3168.	1.2	74
86	Tyrosine D Oxidation at Cryogenic Temperature in Photosystem II. Biochemistry, 2002, 41, 12914-12920.	1.2	74
87	Site-Directed Mutagenesis ofThermosynechococcus elongatusPhotosystem II:Â The O2-Evolving Enzyme Lacking the Redox-Active Tyrosine D. Biochemistry, 2004, 43, 13549-13563.	1.2	73
88	A high-field EPR tour of radicals in photosystems I and II. Applied Magnetic Resonance, 2001, 21, 341-361.	0.6	72
89	Influence of DCMU and ferricyanide on photodamage in photosystem II. Biochemistry, 1994, 33, 3087-3095.	1.2	69
90	Mechanism of tyrosine D oxidation in Photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7690-7695.	3.3	67

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91	EPR relaxation measurements of Photosystem II reaction centers: influence of S-state oxidation and temperature. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 973, 428-442.	0.5	66
92	SQUID Magnetization Study of the Infrared-Induced Spin Transition in the S2State of Photosystem II:Â Spin Value Associated with theg= 4.1 EPR Signal. Journal of the American Chemical Society, 1998, 120, 7924-7928.	6.6	65
93	Biosynthetic Exchange of Bromide for Chloride and Strontium for Calcium in the Photosystem II Oxygen-evolving Enzymes. Journal of Biological Chemistry, 2008, 283, 13330-13340.	1.6	65
94	EPR Study of the Oxygen Evolving Complex in His-Tagged Photosystem II from the CyanobacteriumSynechococcus elongatusâ€. Biochemistry, 2000, 39, 13788-13799.	1.2	64
95	Effect of phenolic herbicides on the oxygen-evolving side of Photosystem II. Formation of the carotenoid cation. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 767, 217-222.	0.5	63
96	The First State in the Catalytic Cycle of the Water-Oxidizing Enzyme: Identification of a Water-Derived Î¼-Hydroxo Bridge. Journal of the American Chemical Society, 2017, 139, 14412-14424.	6.6	63
97	The manganese center of oxygen-evolving and calcium-depleted photosystem II: a pulsed EPR spectroscopy study. Biochemistry, 1993, 32, 4831-4841.	1.2	62
98	Angular orientation of the stable tyrosyl radical within photosystem II by high-field 245-GHz electron paramagnetic resonance.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 5262-5266.	3.3	62
99	Low-Temperature Electron Transfer in Photosystem II:Â A Tyrosyl Radical and Semiquinone Charge Pairâ€. Biochemistry, 2004, 43, 13787-13795.	1.2	60
100	Hacking the thylakoid proton motive force for improved photosynthesis: modulating ion flux rates that control proton motive force partitioning into Î” <i>Ïˆ</i> and Î”pH. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160381.	1.8	60
101	Effect of Near-Infrared Light on the S2-State of the Manganese Complex of Photosystem II fromSynechococcus elongatusâ€. Biochemistry, 1998, 37, 8995-9000.	1.2	58
102	1D- and 2D-ESEEM Study of the Semiquinone Radical QA- of Photosystem II. Journal of the American Chemical Society, 1999, 121, 7653-7664.	6.6	58
103	Orientation of P700, the primary electron donor of Photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1019, 128-132.	0.5	57
104	Secondary Quinone in Photosystem II of Thermosynechococcus elongatus: Semiquinoneâˆ'Iron EPR Signals and Temperature Dependence of Electron Transfer. Biochemistry, 2005, 44, 12780-12789.	1.2	55
105	The effect of herbicides on components of the PS II reaction centre measured by EPR. FEBS Letters, 1984, 165, 156-162.	1.3	54
106	Assessing the feasibility of carbon dioxide mitigation options in terms of energy usage. Nature Energy, 2020, 5, 720-728.	19.8	54
107	ESEEM Study of the Phyllosemiquinone Radical A1â€¢-in14N- and15N-Labeled Photosystem Iâ€. Biochemistry, 1997, 36, 11543-11549.	1.2	53
108	Relationship between Activity, D1 Loss, and Mn Binding in Photoinhibition of Photosystem IIâ€. Biochemistry, 1998, 37, 16262-16269.	1.2	52

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109	Oxygen-evolving photosystem II preparation from wild-type and photosystem II mutants of Synechocystis sp. PCC 6803. Biochemistry, 1992, 31, 2099-2107.	1.2	51
110	Comparative study of the g=4.1 EPR signals in the S2 state of photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1457, 145-156.	0.5	51
111	A relationship between the midpoint potential of the primary acceptor and low temperature photochemistry in photosystem II. FEBS Letters, 1983, 154, 328-334.	1.3	48
112	Energetics of the exchangeable quinone, Q _B , in Photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19458-19463.	3.3	48
113	Chemical Modeling of the Oxygen-Evolving Center in Plants. Synthesis, Structure, and Electronic and Redox Properties of a New Mixed Valence Mnâˆ'Oxo Cluster:Â [Mn2III,IVO2(bisimMe2en)2]3+(bisimMe2en) Tj ETQq1 1 0.784314 rgBT / Induced by UV Irradiation at Low Temperature. Journal of the American Chemical Society, 1996, 118, 2669-2678.	6.6	47
114	Electron-paramagnetic-resonance measurements of the electron-transfer components of the reaction centre of <i>Rhodopseudomonas viridis</i>. Oxidationâ€"reduction potentials and interactions of the electron acceptors. Biochemical Journal, 1979, 182, 515-523.	3.2	46
115	The heart of photosynthesis in glorious 3D. Trends in Biochemical Sciences, 2001, 26, 341-344.	3.7	46
116	Reduction of the Mn Cluster of the Water-Oxidizing Enzyme by Nitric Oxide:â€‰ Formation of an S-2 State. Biochemistry, 2002, 41, 3057-3064.	1.2	46
117	Time-resolved comparative molecular evolution of oxygenic photosynthesis. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148400.	0.5	44
118	Multifrequency High-Field EPR Study of the Interaction between the Tyrosyl Z Radical and the Manganese Cluster in Plant Photosystem II. Journal of Physical Chemistry B, 1999, 103, 10945-10954.	1.2	43
119	Chlorophyll and Carotenoid Radicals in Photosystem II Studied by Pulsed ENDORâ€. Biochemistry, 2001, 40, 320-326.	1.2	43
120	Characterization of Nuclear Mutants of Maize Which Lack the Cytochrome f/b-563 Complex. Plant Physiology, 1983, 73, 452-459.	2.3	42
121	The effect of ambient redox potential on the transient electron spin echo signals observed in chloroplasts and photosynthetic algae. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 682, 332-338.	0.5	41
122	The origin of the split S3 EPR signal in calcium-depleted photosystem II: histidine versus tyrosine. Biochemistry, 1992, 31, 7441-7445.	1.2	41
123	ESEEM study of the plastoquinone anion radical (QA.bul.-) in 14N- and 15N-labeled photosystem II treated with cyanide.. Biochemistry, 1995, 34, 16030-16038.	1.2	40
124	Modification of the pheophytin redox potential in Thermosynechococcus elongatus Photosystem II with PsbA3 as D1. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 139-148.	0.5	40
125	Evolution of Photochemical Reaction Centres: More Twists?. Trends in Plant Science, 2019, 24, 1008-1021.	4.3	40
126	The pH dependence of the redox midpoint potential of the 2Fe2S cluster from cytochrome b6f complex (the â€˜Rieske centreâ€™). Biochimica Et Biophysica Acta - Bioenergetics, 1992, 1102, 266-268.	0.5	39

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127	Detection of an Electron Paramagnetic Resonance Signal in the S0State of the Manganese Complex of Photosystem II fromSynechococcus elongatusâ€. Biochemistry, 1999, 38, 11942-11948.	1.2	39
128	Comparison of chloride-depleted and calcium-depleted PSII: the midpoint potential of QA and susceptibility to photodamage. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1319, 91-98.	0.5	38
129	Evidence for a unique Rieske iron-sulphur centre in Heliobacterium chlorum. FEBS Letters, 1990, 261, 427-430.	1.3	37
130	Near-infrared-induced Transitions in the Manganese Cluster of Photosystem II: Action Spectra for the S2 and S3 Redox States. Plant and Cell Physiology, 2005, 46, 837-842.	1.5	37
131	Purification, crystallization and X-ray diffraction analyses of the T. elongatus PSII core dimer with strontium replacing calcium in the oxygen-evolving complex. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 404-413.	0.5	37
132	Effects of Copper and Zinc Ions on Photosystem II Studied by EPR Spectroscopyâ€. Biochemistry, 1999, 38, 12439-12445.	1.2	36
133	Cytochrome c550 in the Cyanobacterium Thermosynechococcus elongatus. Journal of Biological Chemistry, 2004, 279, 52869-52880.	1.6	36
134	Pure forms of the singlet oxygen sensors TEMP and TEMPD do not inhibit Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1658-1661.	0.5	36
135	Molecular Principles of Redox-Coupled Protonation Dynamics in Photosystem II. Journal of the American Chemical Society, 2022, 144, 7171-7180.	6.6	35
136	Electron spin echo envelope modulation spectroscopy in photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1507, 226-246.	0.5	34
137	Low-temperature photochemistry in photosystem II from <i>Thermosynechococcus elongatus</i> induced by visible and near-infrared light. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1203-1210.	1.8	34
138	The Semiquinone-Iron Complex of Photosystem II: Structural Insights from ESR and Theoretical Simulation; Evidence that the Native Ligand to the Non-Heme Iron Is Carbonate. Biophysical Journal, 2009, 97, 2024-2033.	0.2	34
139	Photoelectron Generation by Photosystemâ€…II Core Complexes Tethered to Gold Surfaces. ChemSusChem, 2010, 3, 471-475.	3.6	34
140	Photocurrents from photosystem II in a metal oxide hybrid system: Electron transfer pathways. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1497-1505.	0.5	34
141	Femtosecond Visible Transient Absorption Spectroscopy of Chlorophyll f -Containing Photosystem I. Biophysical Journal, 2017, 112, 234-249.	0.2	34
142	Terbutryn resistance in a purple bacterium can induce sensitivity toward the plant herbicide DCMU. FEBS Letters, 1989, 256, 192-194.	1.3	33
143	Formation and flash-dependent oscillation of the S2-state multiline EPR signal in an oxygen-evolving Photosystem-II preparation lacking the three extrinsic proteins in the oxygen-evolving system. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 890, 32-38.	0.5	32
144	Characterisation of the low-fluorescent (LF1) mutant of Scenedesmus by EPR. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 932, 171-176.	0.5	32

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145	Chloride-Depletion Effects in the Calcium-Deficient Oxygen-Evolving Complex of Photosystem II. Biochemistry, 1994, 33, 12998-13004.	1.2	32
146	The 18 kDa Cytochromec553 fromHeliobacteriumgestii:Â Gene Sequence and Characterization of the Mature Proteinâ€¡. Biochemistry, 1998, 37, 9001-9008.	1.2	32
147	The high potential semiquinone-iron signal in Rhodopseudomonas viridis is the specific quinone secondary electron acceptor in the photosynthetic reaction centre. FEBS Letters, 1979, 104, 227-230.	1.3	31
148	EPR and ESEEM study of the plastoquinone anion radical QAâˆ'. in photosystem II treated at high pH. Chemical Physics Letters, 1997, 270, 564-572.	1.2	31
149	Streptomyces thermoautotrophicus does not fix nitrogen. Scientific Reports, 2016, 6, 20086.	1.6	31
150	Effects of formate binding on the quinoneâ€"iron electron acceptor complex of photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 216-226.	0.5	30
151	Side-Path Electron Donors: Cytochrome b559, Chlorophyll Z and Î²-Carotene. , 2005, , 347-365.		30
152	Thermoluminescence measurements on chloride-depleted and calcium-depleted photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1364, 46-54.	0.5	29
153	Intramolecular light induced activation of a Salenâ€"MnIII complex by a ruthenium photosensitizer. Chemical Communications, 2010, 46, 7605.	2.2	29
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