

Stenbjørn Styring

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avg, IF

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L-index

#	Paper	IF	Citations
172	Towards artificial photosynthesis: ruthenium-manganese chemistry for energy production. <i>Chemical Society Reviews</i> , 2001 , 30, 36-49	57.5	482
171	Reversible and irreversible intermediates during photoinhibition of photosystem II: stable reduced QA species promote chlorophyll triplet formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 1408-12	11.1	448
170	Biomimetic and microbial approaches to solar fuel generation. <i>Accounts of Chemical Research</i> , 2009 , 42, 1899-909	23.6	367
169	pH-dependent charge equilibria between tyrosine-D and the S states in photosystem II. Estimation of relative midpoint redox potentials. <i>Biochemistry</i> , 1991 , 30, 830-9	3.1	290
168	In the oxygen-evolving complex of photosystem II the S0 state is oxidized to the S1 state by D+ (signal IIslow). <i>Biochemistry</i> , 1987 , 26, 2401-2405	3.1	251
167	Proton-Coupled Electron Transfer from Tyrosine in a Tyrosine-Ruthenium-Tris-Bipyridine Complex: Comparison with Tyrosine Z Oxidation in Photosystem II. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3932-3936	16	243
166	Artificial photosynthesis as a frontier technology for energy sustainability. <i>Energy and Environmental Science</i> , 2013 , 6, 1074	35	244
165	Energy and environment policy case for a global project on artificial photosynthesis. <i>Energy and Environmental Science</i> , 2013 , 6, 695	35	232
164	Spin-Density Distribution, Conformation, and Hydrogen Bonding of the Redox-Active Tyrosine YZ in Photosystem II from Multiple-Electron Magnetic-Resonance Spectroscopies: Implications for Photosynthetic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 1995 , 117, 10325-10335	16	228
163	A hydrogen-atom abstraction model for the function of YZ in photosynthetic oxygen evolution. <i>Photosynthesis Research</i> , 1995 , 46, 177-84	3.6	210
162	Switching the redox mechanism: models for proton-coupled electron transfer from tyrosine and tryptophan. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3855-63	16	207
161	A model for the photosystem II reaction center core including the structure of the primary donor P680. <i>Biochemistry</i> , 1996 , 35, 14486-502	3.1	201
160	An oscillating manganese electron paramagnetic resonance signal from the S0 state of the oxygen evolving complex in photosystem II. <i>Biochemistry</i> , 1997 , 36, 13148-52	3.1	173
159	Iron sensitizer converts light to electrons with 92% yield. <i>Nature Chemistry</i> , 2015 , 7, 883-9	17.2	156
158	Light-dependent degradation of the D1 protein in photosystem II is accelerated after inhibition of the water splitting reaction. <i>Biochemistry</i> , 1990 , 29, 6179-86	3.1	153
157	Luminescence and reactivity of a charge-transfer excited iron complex with nanosecond lifetime. <i>Science</i> , 2019 , 363, 249-253	32.2	138
156	Involvement of histidine 190 on the D1 protein in electron/proton transfer reactions on the donor side of photosystem II. <i>Biochemistry</i> , 1998 , 37, 14245-56	3.1	131

155	Proton-coupled electron transfer of tyrosines in Photosystem II and model systems for artificial photosynthesis: the role of a redox-active link between catalyst and photosensitizer. <i>Energy and Environmental Science</i> , 2011 , 4, 2379	35	127
154	Access channels and methanol binding site to the CaMn ₄ cluster in Photosystem II based on solvent accessibility simulations, with implications for substrate water access. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 140-53	4.5	128
153	Artificial photosynthesis for solar fuels. <i>Faraday Discussions</i> , 2012 , 155, 357-76	3.4	123
152	Light induced manganese oxidation and long-lived charge separation in a Mn ₂ II,II-RuIII(bpy) ₃ -acceptor triad. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17504-15	16	122
151	Mimicking Electron Transfer Reactions in Photosystem II: Synthesis and Photochemical Characterization of a Ruthenium(II) Tris(bipyridyl) Complex with a Covalently Linked Tyrosine. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10720-10725	16	122
150	Strong light photoinhibition of electrontransport in Photosystem II. Impairment of the function of the first quinone acceptor, QA. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990 , 1015, 269-278	4.5	118
149	Molecular interference of Cd(2+) with Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004 , 1659, 19-31	4.5	117
148	Photochemical water oxidation with visible light using a cobalt containing catalyst. <i>Energy and Environmental Science</i> , 2011 , 4, 1284	35	116
147	A Quantum Chemical Study of Hydrogen Abstraction from Manganese-Coordinated Water by a Tyrosyl Radical: A Model for Water Oxidation in Photosystem II. <i>Journal of the American Chemical Society</i> , 1997 , 119, 8285-8292	16	113
146	Deactivation kinetics and temperature dependence of the S-state transitions in the oxygen-evolving system of Photosystem II measured by EPR spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988 , 933, 378-387	4.5	110
145	Binuclear RutheniumManganese Complexes as Simple Artificial Models for Photosystem II in Green Plants. <i>Journal of the American Chemical Society</i> , 1997 , 119, 6996-7004	16	107
144	Dimeric and monomeric organization of photosystem II. Distribution of five distinct complexes in the different domains of the thylakoid membrane. <i>Journal of Biological Chemistry</i> , 2006 , 281, 14241-9	5	105
143	Photosystem II disorganization and manganese release after photoinhibition of isolated spinach thylakoid membranes. <i>FEBS Letters</i> , 1988 , 233, 408-412	3.6	104
142	Quantification of photosystem I and II in different parts of the thylakoid membrane from spinach. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004 , 1608, 53-61	4.5	102
141	The microwave power saturation of SIIslow varies with the redox state of the oxygen-evolving complex in photosystem II. <i>Biochemistry</i> , 1988 , 27, 4915-4923	3.1	102
140	Oxygen evolving reactions catalysed by synthetic manganese complexes: a systematic screening. <i>Dalton Transactions</i> , 2007 , 4258-61	4.2	98
139	Photodamage of iron-sulphur clusters in photosystem I induces non-photochemical energy dissipation. <i>Nature Plants</i> , 2016 , 2, 16035	11.2	97
138	PsbR, a missing link in the assembly of the oxygen-evolving complex of plant photosystem II. <i>Journal of Biological Chemistry</i> , 2006 , 281, 145-50	5	96

137	Two tyrosines that changed the world: Interfacing the oxidizing power of photochemistry to water splitting in photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 76-87	4.5	91
136	Formation of stoichiometrically ¹⁸ O-labelled oxygen from the oxidation of ¹⁸ O-enriched water mediated by a dinuclear manganese complex – mass spectrometry and EPR study. <i>Energy and Environmental Science</i> , 2008 , 1, 668	35	92
135	Mimicking the electron donor side of Photosystem II in artificial photosynthesis. <i>Photosynthesis Research</i> , 2006 , 87, 25-40	3.6	93
134	Increased photosystem II stability promotes H ₂ production in sulfur-deprived <i>Chlamydomonas reinhardtii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7223-8	11.1	85
133	Photo-induced oxidation of a dinuclear Mn(2)(II,II) complex to the Mn(2)(III,IV) state by inter- and intramolecular electron transfer to Ru(III)tris-bipyridine. <i>Journal of Inorganic Biochemistry</i> , 2002 , 91, 159-72	4.2	84
132	Changes in the organization of Photosystem II following light-induced D1-protein degradation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990 , 1017, 235-241	4.5	84
131	Copper(II) inhibition of electron transfer through photosystem II studied by EPR spectroscopy. <i>Biochemistry</i> , 1995 , 34, 12747-54	3.1	83
130	Modified EPR spectra of the tyrosineD radical in photosystem II in site-directed mutants of <i>Synechocystis</i> sp. PCC 6803: identification of side chains in the immediate vicinity of tyrosineD on the D2 protein. <i>Biochemistry</i> , 1993 , 32, 5436-41	3.1	83
129	Evidence for a precursor complex in C-H hydrogen atom transfer reactions mediated by a manganese(IV) oxo complex. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5648-53	16.1	80
128	Hydrogen-Bond Promoted Intramolecular Electron Transfer to Photogenerated Ru(III): A Functional Mimic of TyrosineZ and Histidine 190 in Photosystem II. <i>Journal of the American Chemical Society</i> , 1999 , 121, 6834-6842	16	80
127	Phosphorylation-dependent regulation of excitation energy distribution between the two photosystems in higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 425-32	4.5	79
126	Ruthenium-manganese complexes for artificial photosynthesis: factors controlling intramolecular electron transfer and excited-state quenching reactions. <i>Inorganic Chemistry</i> , 2002 , 41, 1534-44	4.9	77
125	Tyrosyl radicals in enzyme catalysis: some properties and a focus on photosynthetic water oxidation. <i>Acta Chemica Scandinavica</i> , 1997 , 51, 533-40		77
124	Interaction of ammonia with the water splitting enzyme of photosystem II. <i>Biochemistry</i> , 1990 , 29, 24-32	3.1	75
123	Formation of split electron paramagnetic resonance signals in photosystem II suggests that tyrosine(Z) can be photooxidized at 5 K in the S ₀ and S ₁ states of the oxygen-evolving complex. <i>Biochemistry</i> , 2003 , 42, 8066-76	3.1	72
122	Photodamage to photosystem II - primary and secondary events. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992 , 15, 15-31	6.5	70
121	Photosynthetic water oxidation: The protein framework. <i>Photosynthesis Research</i> , 1993 , 38, 249-63	3.6	69
120	Tuning proton coupled electron transfer from tyrosine: A competition between concerted and step-wise mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 4851-4858	3.5	68

119	A Biomimetic Model System for the Water Oxidizing Triad in Photosystem II. <i>Journal of the American Chemical Society</i> , 1999 , 121, 89-96	16	66
118	Towards an artificial model for Photosystem II: a manganese(II,II) dimer covalently linked to ruthenium(II) tris-bipyridine via a tyrosine derivative. <i>Journal of Inorganic Biochemistry</i> , 2000 , 78, 15-22	4	64
117	Magneto-optical measurements of the pigments in fully active photosystem II core complexes from plants. <i>Biochemistry</i> , 2002 , 41, 1981-9	3.1	63
116	pH dependence of the four individual transitions in the catalytic S-cycle during photosynthetic oxygen evolution. <i>Biochemistry</i> , 2002 , 41, 5830-43	3.1	63
115	EPR relaxation measurements of Photosystem II reaction centers: influence of S-state oxidation and temperature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1989 , 973, 428-442	4.5	62
114	Fast oxygen-independent degradation of the D1 reaction center protein in photosystem II. <i>FEBS Letters</i> , 1991 , 280, 87-90	3.6	61
113	The S0 state EPR signal from the Mn cluster in photosystem II arises from an isolated S = 1/2 ground state. <i>Biochemistry</i> , 1998 , 37, 8115-20	3.1	61
112	Electronic structure of oxidized complexes derived from cis-[Ru(II)(bpy) ₂ (H ₂ O) ₂] ²⁺ and its photoisomerization mechanism. <i>Inorganic Chemistry</i> , 2011 , 50, 11134-42	4.9	58
111	Ca ²⁺ depletion modifies the electron transfer on both donor and acceptor sides in Photosystem II from spinach. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1995 , 1230, 155-164	4.5	54
110	The mechanism for proton-coupled electron transfer from tyrosine in a model complex and comparisons with Y(Z) oxidation in photosystem II. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002 , 357, 1471-9; discussion 1478-9, 1511	5.7	52
109	The S(3) state of the oxygen-evolving complex in photosystem II is converted to the S(2)Y(Z)* state at alkaline pH. <i>Biochemistry</i> , 2001 , 40, 10881-91	3.1	52
108	Coupled electron transfers in artificial photosynthesis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008 , 363, 1283-91; discussion 1291	5.7	51
107	The role of cytochrome b559 and tyrosineD in protection against photoinhibition during in vivo photoactivation of photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999 , 1411, 180-91	4.5	50
106	Transcription of a "silent" cyanobacterial psbA gene is induced by microaerobic conditions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 105-12	4.5	47
105	Coupled activation of the donor and the acceptor side of photosystem II during photoactivation of the oxygen evolving cluster. <i>Biochemistry</i> , 1998 , 37, 11039-45	3.1	47
104	Photosystem II in different parts of the thylakoid membrane: a functional comparison between different domains. <i>Biochemistry</i> , 2000 , 39, 10478-86	3.1	46
103	Characterization of chlorophyll triplet promoting states in photosystem II sequentially induced during photoinhibition. <i>Biochemistry</i> , 1993 , 32, 3334-41	3.1	45
102	Functional characterization of monomeric photosystem II core preparations from <i>Thermosynechococcus elongatus</i> with or without the Psb27 protein. <i>Biochemistry</i> , 2007 , 46, 5542-51	3.1	44

101	Stepwise Disintegration of the Photosynthetic Oxygen-Evolving Complex. <i>Journal of the American Chemical Society</i> , 1998 , 120, 10441-10452	16	42
100	Atomic structure of cobalt-oxide nanoparticles active in light-driven catalysis of water oxidation. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8878-8888	6.7	39
99	First turnover analysis of water-oxidation catalyzed by Co-oxide nanoparticles. <i>Energy and Environmental Science</i> , 2015 , 8, 2492-2503	35	38
98	Electron paramagnetic resonance study of the $S = \frac{1}{2}$ ground state of a radiolysis-generated manganese(III)–manganese(IV) form of $[MnIV_4O_6(bipy)_6]^{4+}$ (bipy = 2,2'-bipyridine). Comparison with the photosynthetic Oxygen Evolving Complex. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997 , 4069-4074		38
97	Spectroscopic characterization of triplet forming states in photosystem II. <i>Biochemistry</i> , 1992 , 31, 5957-631	31	38
96	Spectral resolution of the split EPR signals induced by illumination at 5 K from the S1, S3, and S0 states in photosystem II. <i>Biochemistry</i> , 2006 , 45, 9279-90	3.1	37
95	Photosystem II in a mutant of <i>Chlamydomonas reinhardtii</i> lacking the 23 kDa psbP protein shows increased sensitivity to photoinhibition in the absence of chloride. <i>Photosynthesis Research</i> , 1994 , 39, 75-83	3.6	37
94	Electrons generated by photosystem II are utilized by an oxidase in the absence of photosystem I in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Letters</i> , 1994 , 337, 103-8	3.6	37
93	Synthesis and photophysics of one mononuclear Mn(III) and one dinuclear Mn(III,III) complex covalently linked to a ruthenium(II) tris(bipyridyl) complex. <i>Inorganic Chemistry</i> , 2003 , 42, 7502-11	4.9	36
92	Intramolecular electron transfer from coordinated manganese(II) to photogenerated ruthenium(III). <i>Chemical Communications</i> , 1997 , 607-608	5.7	36
91	Identification of ligands to the metal ion in copper(II)-activated ribulose 1,5-bisphosphate carboxylase/oxygenase by the use of electron paramagnetic resonance spectroscopy and oxygen-17 labeled ligands. <i>Biochemistry</i> , 1985 , 24, 6011-6019	3.1	36
90	Water oxidation by manganese oxides formed from tetranuclear precursor complexes: the influence of phosphate on structure and activity. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11965-73	3.5	35
89	Metalloradical EPR Signals from the YZ State Intermediates in Photosystem II. <i>Applied Magnetic Resonance</i> , 2010 , 37, 151-176	0.8	35
88	Light-induced multistep oxidation of dinuclear manganese complexes for artificial photosynthesis. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 733-45	4	35
87	Synthesis and characterization of dinuclear ruthenium complexes covalently linked to Ru(II) tris-bipyridine: an approach to mimics of the donor side of photosystem II. <i>Chemistry - A European Journal</i> , 2005 , 11, 7305-14	4.6	35
86	Role of novel dimeric Photosystem II (PSII)-Psb27 protein complex in PSII repair. <i>Journal of Biological Chemistry</i> , 2011 , 286, 29548-55	5	34
85	Defining the far-red limit of photosystem II in spinach. <i>Plant Cell</i> , 2009 , 21, 2391-401	11.3	34
84	Comparison of the electron transport properties of the psbO1 and psbO2 mutants of <i>Arabidopsis thaliana</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 1230-7	4.5	34

83	Intramolecular Electron Transfer from Manganese(II) Coordinatively Linked to a Photogenerated Ru(III)Polypyridine Complex: A Kinetic Analysis. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 2512-2518	2.7	34
82	Insights into the function of PsbR protein in Arabidopsis thaliana. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007 , 1767, 677-85	4.5	33
81	A biomimetic approach to artificial photosynthesis: Ru(II)-polypyridine photo-sensitisers linked to tyrosine and manganese electron donors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001 , 57, 2145-60	4.3	33
80	Spectroscopic characterization of intermediate steps involved in donor-side-induced photoinhibition of photosystem II. <i>Biochemistry</i> , 1996 , 35, 7794-801	3.1	33
79	Two tetranuclear Mn-complexes as biomimetic models of the oxygen evolving complex in Photosystem II. A synthesis, characterisation and reactivity study. <i>Dalton Transactions</i> , 2009 , 10044-54	4.2	31
78	Light-driven tyrosine radical formation in a ruthenium-tyrosine complex attached to nanoparticle TiO ₂ . <i>Inorganic Chemistry</i> , 2002 , 41, 6258-66	4.9	30
77	Interconversion of low- and high-potential forms of cytochrome b(559) in Tris-washed photosystem II membranes under aerobic and anaerobic conditions. <i>Biochemistry</i> , 1999 , 38, 10578-84	3.1	31
76	Stepwise Charge Separation from a Ruthenium-Tyrosine Complex to a Nanocrystalline TiO ₂ Film. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12904-12910	3.3	28
75	Formation spectra of the EPR split signals from the S ₀ , S ₁ , and S ₃ states in photosystem II induced by monochromatic light at 5 K. <i>Biochemistry</i> , 2007 , 46, 10703-12	3.1	27
74	Split EPR signals from photosystem II are modified by methanol, reflecting S state-dependent binding and alterations in the magnetic coupling in the CaMn ₄ cluster. <i>Biochemistry</i> , 2006 , 45, 7617-27	3.1	27
73	Formation and flash-dependent oscillation of the S ₂ -state multiline EPR signal in an oxygen-evolving Photosystem-II preparation lacking the three extrinsic proteins in the oxygen-evolving system. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1987 , 890, 32-38	4.5	27
72	Redox Chemistry of a Dimanganese(II,III) Complex with an Unsymmetric Ligand: Water Binding, Deprotonation and Accumulative Light-Induced Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 5033-5047	2.3	25
71	Methanol modification of the electron paramagnetic resonance signals from the S(0) and S(2) states of the water-oxidizing complex of photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999 , 1412, 240-9	4.5	25
70	Point-mutations affecting the properties of tyrosineD in photosystem II. Characterization by isotopic labeling and spectral simulation. <i>Biochemistry</i> , 1994 , 33, 11805-13	3.1	24
69	The accessory electron donor tyrosine-D of Photosystem II is slowly reduced in the dark during low-temperature storage of isolated thylakoids. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990 , 1018, 41-46	4.5	24
68	Mechanistic studies on the water-oxidizing reaction of homogeneous manganese-based catalysts: isolation and characterization of a suggested catalytic intermediate. <i>Inorganic Chemistry</i> , 2011 , 50, 3425-30	4.9	23
67	Functional heterogeneity of photosystem II in domain specific regions of the thylakoid membrane of spinach (<i>Spinacia oleracea</i> L.). <i>Biochemistry</i> , 2007 , 46, 3443-53	3.1	23
66	Dark-adapted spinach thylakoid protein heterogeneity offers insights into the photosystem II repair cycle. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 1463-71	4.5	21

65	Electron transfer from cytochrome b559 and tyrosine D to the S ₂ and S ₃ states of the water oxidizing complex in photosystem II. <i>Chemical Physics</i> , 2003 , 294, 415-431	2.3	21
64	Redox interaction of Tyrosine-D with the S-states of the water-oxidizing complex in intact and chloride-depleted Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994 , 1185, 65-74	4.5	21
63	The nature of the Fe(III) EPR signal from the acceptor-side iron in photosystem II. <i>FEBS Letters</i> , 1989 , 243, 156-160	3.6	21
62	pH dependent competition between Y(Z) and Y(D) in photosystem II probed by illumination at 5 K. <i>Biochemistry</i> , 2007 , 46, 7865-74	3.1	20
61	Comparative studies of the S ₀ and S ₂ multiline electron paramagnetic resonance signals from the manganese cluster in Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001 , 1503, 83-95	4.5	20
60	Synthesis of a Ru(bpy) ₃ -type complex linked to a free terpyridine ligand and its use for preparation of polynuclear bimetallic complexes. <i>Catalysis Today</i> , 2004 , 98, 529-536	5.2	20
59	Proton equilibria in the manganese cluster of photosystem II control the intensities of the S(0) and S(2) state g approximately 2 electron paramagnetic resonance signals. <i>Biochemistry</i> , 2000 , 39, 6763-72	3.1	20
58	Turning around the electron flow in an uptake hydrogenase. EPR spectroscopy and in vivo activity of a designed mutant in HupSL from <i>Nostoc punctiforme</i> . <i>Energy and Environmental Science</i> , 2016 , 9, 581-594	3.5	19
57	Effects of pH on the S(3) state of the oxygen evolving complex in photosystem II probed by EPR split signal induction. <i>Biochemistry</i> , 2010 , 49, 9800-8	3.1	19
56	Rhodobacter capsulatus magnesium chelatase subunit BchH contains an oxygen sensitive iron-sulfur cluster. <i>Archives of Microbiology</i> , 2007 , 188, 599-608	2.8	19
55	pH dependence of the donor side reactions in Ca ²⁺ -depleted photosystem II. <i>Biochemistry</i> , 2003 , 42, 6185-92	3.1	19
54	Misses during water oxidation in photosystem II are S state-dependent. <i>Journal of Biological Chemistry</i> , 2012 , 287, 13422-9	5	18
53	Distortion of the activator metal coordination during the turnover of cobalt-activated ribulosebiphosphate carboxylase/oxygenase. <i>BBA - Proteins and Proteomics</i> , 1984 , 788, 274-280		17
52	Stability of the S ₁ and S ₂ state intermediates in photosystem II directly probed by EPR spectroscopy. <i>Biochemistry</i> , 2012 , 51, 138-48	3.1	16
51	Oxygen-induced changes in the redox state of the cytochrome b559 in photosystem II depend on the integrity of the Mn cluster. <i>Physiologia Plantarum</i> , 2007 , 131, 41-9	4.5	16
50	The EPR signals from the S ₀ and S ₂ states of the Mn cluster in photosystem II relax differently. <i>Biochemistry</i> , 1999 , 38, 15223-30	3.1	16
49	Visible light induction of an electron paramagnetic resonance split signal in Photosystem II in the S(2) state reveals the importance of charges in the oxygen-evolving center during catalysis: a unifying model. <i>Biochemistry</i> , 2012 , 51, 2054-64	3.1	15
48	Direct synthesis of an heterometallic {Mn(II)3Cr(III)4} wheel by decomposition of Reineckes salt. <i>Dalton Transactions</i> , 2010 , 39, 2344-9	4.2	15

47	Logistics in the life cycle of Photosystem II lateral movement in the thylakoid membrane and activation of electron transfer. <i>Physiologia Plantarum</i> , 2003 , 119, 328-336	4.5	14
46	The formation of the split EPR signal from the S(3) state of Photosystem II does not involve primary charge separation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011 , 1807, 11-21	4.5	14
45	Direct quantification of the four individual S states in Photosystem II using EPR spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 496-503	4.5	14
44	Isolation and characterization of thylakoid membranes from the filamentous cyanobacterium <i>Nostoc punctiforme</i> . <i>Physiologia Plantarum</i> , 2007 , 131, 622-34	4.5	14
43	Influence of protein phosphorylation on the electron-transport properties of Photosystem II. <i>Photosynthesis Research</i> , 2002 , 74, 61-72	3.6	14
42	Mimicking photosystem II reactions in artificial photosynthesis: Ru(II)-polypyridine photosensitisers linked to tyrosine and manganese electron donors. <i>Catalysis Today</i> , 2000 , 58, 57-69	5.2	14
41	Mutation of a putative ligand to the non-heme iron in Photosystem II: implications for QA reactivity, electron transfer, and herbicide binding. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994 , 1184, 263-272	4.5	13
40	A comparative study of the reduction of EPR signal IIslow by iodide and the iodo-labeling of the D2-protein in photosystem II. <i>FEBS Letters</i> , 1987 , 223, 371-375	3.6	14
39	Structural, magnetic, thermal and visible light-driven water oxidation studies of heterometallic Mn/V complexes. <i>Polyhedron</i> , 2015 , 88, 81-89	2.7	13
38	EPR characterization of photosystem II from different domains of the thylakoid membrane. <i>Biochemistry</i> , 2008 , 47, 3883-91	3.1	13
37	Isolation and characterization of the small subunit of the uptake hydrogenase from the cyanobacterium <i>Nostoc punctiforme</i> . <i>Journal of Biological Chemistry</i> , 2013 , 288, 18345-52	5	12
36	The S(1) split signal of photosystem II; a tyrosine-manganese coupled interaction. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 882-9	4.5	12
35	Artificial photosynthesis: Towards functional mimics of photosystem II?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998 , 1365, 193-199	4.5	11
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