James Barber

List of Publications by Year
in descending order

205 papers	24,036 citations	7069 78 h-index	7496 151 g-index
208 all docs	208 docs citations	208 times ranked	20959 citing authors

#	Article	IF	Citations
1	An overview of Cu-based heterogeneous electrocatalysts for CO₂reduction. Journal of Materials Chemistry A, 2020, 8, 4700-4734.	5.2	150
2	Solar-driven water-splitting provides a solution to the energy problem underpinning climate change. Biochemical Society Transactions, 2020, 48, 2865-2874.	1.6	18
3	Material Design for Artificial Photosynthesis using Photoelectrodes for Hydrogen Production. , 2019, , 231-258.		0
4	Hydrogen derived from water as a sustainable solar fuel: learning from biology. Sustainable Energy and Fuels, 2018, 2, 927-935.	2.5	28
5	Vyacheslav (Slava) Klimov (1945â€"2017): A scientist par excellence, a great human being, a friend, and a Renaissance man. Photosynthesis Research, 2018, 136, 1-16.	1.6	10
6	Cations in Octahedral Sites: A Descriptor for Oxygen Electrocatalysis on Transitionâ€Metal Spinels. Advanced Materials, 2017, 29, 1606800.	11.1	525
7	A mechanism for water splitting and oxygen production in photosynthesis. Nature Plants, 2017, 3, 17041.	4.7	98
8	Lateral Segregation of Photosystem I in Cyanobacterial Thylakoids. Plant Cell, 2017, 29, 1119-1136.	3.1	54
9	Photosynthetic Water Splitting Provides a Blueprint for Artificial Leaf Technology. Joule, 2017, 1, 5-9.	11.7	10
10	Photosynthetic water splitting by the Mn₄Ca²⁺O_{<i>X</i>} catalyst of photosystem II: its structure, robustness and mechanism. Quarterly Reviews of Biophysics, 2017, 50, e13.	2.4	19
11	Dynamic reorganization of photosystem II supercomplexes in response to variations in light intensities. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1651-1660.	0.5	70
12	Mn₄Ca Cluster of Photosynthetic Oxygen-Evolving Center: Structure, Function and Evolution. Biochemistry, 2016, 55, 5901-5906.	1.2	42
13	â€˜Photosystem II: the water splitting enzyme of photosynthesis and the origin of oxygen in our atmosphereâ€™. Quarterly Reviews of Biophysics, 2016, 49, e14.	2.4	56
14	Synthetic beta-solenoid proteins with the fragment-free computational design of a beta-hairpin extension. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10346-10351.	3.3	28
15	Catalytic effect of Bi 5+ in enhanced solar water splitting of tetragonal BiV 0.8 Mo 0.2 O 4. Applied Catalysis A: General, 2016, 526, 21-27.	2.2	12
16	Understanding charge transport in non-doped pristine and surface passivated hematite (Fe₂O₃) nanorods under front and backside illumination in the context of light induced water splitting. Physical Chemistry Chemical Physics, 2016, 18, 30370-30378.	1.3	32
17	Isolation of novel PSII-LHCII megacomplexes from pea plants characterized by a combination of proteomics and electron microscopy. Photosynthesis Research, 2016, 130, 19-31.	1.6	24
18	Crystalline Fe 2 O 3 /Fe 2 TiO 5 heterojunction nanorods with efficient charge separation and hole injection as photoanode for solar water oxidation. Nano Energy, 2016, 22, 310-318.	8.2	100

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19	Coordination polymer structure and revisited hydrogen evolution catalytic mechanism for amorphous molybdenumÂsulfide. Nature Materials, 2016, 15, 640-646.	13.3	490
20	Achieving High Electrocatalytic Efficiency on Copper: A Low-Cost Alternative to Platinum for Hydrogen Generation in Water. ACS Catalysis, 2015, 5, 4115-4120.	5.5	90
21	Silicon Decorated with Amorphous Cobalt Molybdenum Sulfide Catalyst as an Efficient Photocathode for Solar Hydrogen Generation. ACS Nano, 2015, 9, 3829-3836.	7.3	91
22	Coreâ€"Shell Hematite Nanorods: A Simple Method To Improve the Charge Transfer in the Photoanode for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2015, 7, 6852-6859.	4.0	57
23	Perovskiteâ€"Hematite Tandem Cells for Efficient Overall Solar Driven Water Splitting. Nano Letters, 2015, 15, 3833-3839.	4.5	249
24	Hydrothermal Grown Nanoporous Iron Based Titanate, Fe₂TiO₅ for Light Driven Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 22490-22495.	4.0	74
25	Noble-metal-free g-C3N4/Ni(dmgH)2 composite for efficient photocatalytic hydrogen evolution under visible light irradiation. Applied Surface Science, 2014, 319, 344-349.	3.1	169
26	Engineering a Cu₂O/NiO/Cu₂MoS₄ hybrid photocathode for H₂ generation in water. Nanoscale, 2014, 6, 6506-6510.	2.8	62
27	Photosystem II: Its function, structure, and implications for artificial photosynthesis. Biochemistry (Moscow), 2014, 79, 185-196.	0.7	15
28	Green-Synthesized BiVO₄ Oriented along {040} Facets for Visible-Light-Driven Ethylene Degradation. Industrial & Engineering Chemistry Research, 2014, 53, 2640-2646.	1.8	73
29	Improving the Efficiency of Hematite Nanorods for Photoelectrochemical Water Splitting by Doping with Manganese. ACS Applied Materials & Interfaces, 2014, 6, 5852-5859.	4.0	174
30	Proteomic characterization and three-dimensional electron microscopy study of PSIIâ€"LHCII supercomplexes from higher plants. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1454-1462.	0.5	31
31	Hetero-nanostructured suspended photocatalysts for solar-to-fuel conversion. Energy and Environmental Science, 2014, 7, 3934-3951.	15.6	470
32	Iron based photoanodes for solar fuel production. Physical Chemistry Chemical Physics, 2014, 16, 11834.	1.3	120
33	Crystal structure of CyanoQ from the thermophilic cyanobacterium Thermosynechococcus elongatus and detection in isolated photosystem II complexes. Photosynthesis Research, 2014, 122, 57-67.	1.6	26
34	Fluorescence kinetics of PSII crystals containing Ca2+ or Sr2+ in the oxygen evolving complex. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 264-269.	0.5	4
35	Novel cobalt/nickelâ€"tungsten-sulfide catalysts for electrocatalytic hydrogen generation from water. Energy and Environmental Science, 2013, 6, 2452.	15.6	182
36	Artificial photosynthetic hydrogen evolution over g-C3N4 nanosheets coupled with cobaloxime. Physical Chemistry Chemical Physics, 2013, 15, 18363.	1.3	101

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37	In-situ growth of CdS quantum dots on g-C3N4 nanosheets for highly efficient photocatalytic hydrogen generation under visible light irradiation. International Journal of Hydrogen Energy, 2013, 38, 1258-1266.	3.8	339
38	Structural, functional and auxiliary proteins of photosystem II. Photosynthesis Research, 2013, 116, 167-188.	1.6	102
39	From natural to artificial photosynthesis. Journal of the Royal Society Interface, 2013, 10, 20120984.	1.5	293
40	Assembling graphitic-carbon-nitride with cobalt-oxide-phosphate to construct an efficient hybrid photocatalyst for water splitting application. Catalysis Science and Technology, 2013, 3, 1694.	2.1	56
41	A novel strategy for surface treatment on hematite photoanode for efficient water oxidation. Chemical Science, 2013, 4, 164-169.	3.7	148
42	A Reaction Center-dependent Photoprotection Mechanism in a Highly Robust Photosystem II from an Extremophilic Red Alga, Cyanidioschyzon merolae. Journal of Biological Chemistry, 2013, 288, 23529-23542.	1.6	56
43	Compositional and Structural Analyses of the Photosystem II Isolated from the Red Alga Cyanidioschyzon Merolae. Advanced Topics in Science and Technology in China, 2013, , 59-63.	0.0	1
44	Preface. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3381-3383.	1.8	1
45	Characterization of PSIIâ€“LHCII supercomplexes isolated from pea thylakoid membrane by one-step treatment with Î±- and Î²-dodecyl- <scp>d</scp> -maltoside. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3389-3399.	1.8	35
46	Plasmon-Enhanced Hydrogen Evolution on Au-InVO4 Hybrid Microspheres. RSC Advances, 2012, 2, 5513.	1.7	40
47	Enhancing the photocatalytic efficiency of TiO2 nanopowders for H2 production by using non-noble transition metal co-catalysts. Physical Chemistry Chemical Physics, 2012, 14, 11596.	1.3	123
48	Surface treatment of hematite photoanodes with zinc acetate for water oxidation. Nanoscale, 2012, 4, 4430.	2.8	88
49	Preparation of Au-BiVO₄ Heterogeneous Nanostructures as Highly Efficient Visible-Light Photocatalysts. ACS Applied Materials & Interfaces, 2012, 4, 418-423.	4.0	259
50	Proton reduction to hydrogen in biological and chemical systems. Physical Chemistry Chemical Physics, 2012, 14, 13772.	1.3	50
51	Novel Assembly of an MoS₂ Electrocatalyst onto a Silicon Nanowire Array Electrode to Construct a Photocathode Composed of Elements Abundant on the Earth for Hydrogen Generation. Chemistry - A European Journal, 2012, 18, 13994-13999.	1.7	109
52	Two-Dimensional Electronic Spectroscopy Reveals Ultrafast Downhill Energy Transfer in Photosystem I Trimers of the Cyanobacterium <i>Thermosynechococcus elongatus</i>. Journal of Physical Chemistry Letters, 2012, 3, 3677-3684.	2.1	37
53	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. Energy and Environmental Science, 2012, 5, 8912.	15.6	314
54	Co₃O₄-Decorated Hematite Nanorods As an Effective Photoanode for Solar Water Oxidation. Journal of Physical Chemistry C, 2012, 116, 13884-13889.	1.5	141

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55	In situ growth of Au nanoparticles on Fe2O3 nanocrystals for catalytic applications. CrystEngComm, 2012, 14, 7229.	1.3	48
56	Recent advances in hybrid photocatalysts for solar fuel production. Energy and Environmental Science, 2012, 5, 5902.	15.6	563
57	A cuprous oxideâ€“reduced graphene oxide (Cu2Oâ€“rGO) composite photocatalyst for hydrogen generation: employing rGO as an electron acceptor to enhance the photocatalytic activity and stability of Cu2O. Nanoscale, 2012, 4, 3875.	2.8	279
58	Comparison of the Î± and Î² isomeric forms of the detergent n-dodecyl-D-maltoside for solubilizing photosynthetic complexes from pea thylakoid membranes. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1506-1515.	0.5	47
59	Comparing Photosynthetic and Photovoltaic Efficiencies and Recognizing the Potential for Improvement. Science, 2011, 332, 805-809.	6.0	1,369
60	One-step isolation and biochemical characterization of a highly active plant PSII monomeric core. Photosynthesis Research, 2011, 108, 33-46.	1.6	16
61	Photosynthetic energy conversion: natural and artificial. Chemical Society Reviews, 2009, 38, 185-196.	18.7	1,569
62	Recovery of photoinactivated photosystem II in leaves: retardation due to restricted mobility of photosystem II in the thylakoid membrane. Photosynthesis Research, 2008, 98, 621-629.	1.6	11
63	Energetics of Photosystem II charge recombination in Acaryochloris marina studied by thermoluminescence and flash-induced chlorophyll fluorescence measurements. Photosynthesis Research, 2008, 98, 131-140.	1.6	27
64	Revealing the structure of the Mn-cluster of photosystem II by X-ray crystallography. Coordination Chemistry Reviews, 2008, 252, 233-243.	9.5	68
65	Photosynthetic acclimation: Structural reorganisation of light harvesting antenna â€“ role of redoxâ€dependent phosphorylation of major and minor chlorophyll <i>a/b</i> binding proteins. FEBS Journal, 2008, 275, 1056-1068.	2.2	110
66	Spectroscopic studies of the chlorophyll d containing photosystem I from the cyanobacterium, Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1400-1408.	0.5	25
67	Photosynthetic generation of oxygen. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 2665-2674.	1.8	55
68	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
69	Crystal Structure of the Oxygen-Evolving Complex of Photosystem II. Inorganic Chemistry, 2008, 47, 1700-1710.	1.9	166
70	Introduction. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1125-1128.	1.8	7
71	The structure of the Mn₄Ca²⁺cluster of photosystem II and its protein environment as revealed by X-ray crystallography. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1129-1138.	1.8	52
72	Oxygen, Water, Proton and Quinone Channels in PSII. , 2008, , 467-470.		2

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73	A Detailed Structural Model For The Eukaryotic Lhcii-Ps Ii Supercomplex. , 2008, , 357-361.		0
74	Structural characteristics of channels and pathways in photosystem II including the identification of an oxygen channel. Journal of Structural Biology, 2007, 159, 228-237.	1.3	179
75	Biological solar energy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1007-1023.	1.6	107
76	Subsequent events to GTP binding by the plant PsbO protein: Structural changes, GTP hydrolysis and dissociation from the photosystem II complex. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 500-508.	0.5	42
77	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
78	Both chlorophylls a and d are essential for the photochemistry in photosystem II of the cyanobacteria, Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 589-595.	0.5	62
79	The structure of allophycocyanin from<i>Thermosynechococcus elongatus</i>at 3.5â€…Ã… resolution. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 998-1002.	0.7	23
80	Refinement of the structural model for the Photosystem II supercomplex of higher plants. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 353-361.	0.5	124
81	Light Harvesting in Photosystem I Supercomplexesâ€,â€¡. Biochemistry, 2006, 45, 331-345.	1.2	103
82	Identification of a Calcium-Binding Site in the PsbO Protein of Photosystem IIâ€. Biochemistry, 2006, 45, 4128-4130.	1.2	60
83	CP43-like chlorophyll binding proteins: structural and evolutionary implications. Trends in Plant Science, 2006, 11, 152-158.	4.3	59
84	Biochemical and structural analyses of a higher plant photosystem II supercomplex of a photosystem I-less mutant of barley. FEBS Journal, 2006, 273, 4616-4630.	2.2	58
85	Environmentally Modulated Phosphoproteome of Photosynthetic Membranes in the Green Alga Chlamydomonas reinhardtii. Molecular and Cellular Proteomics, 2006, 5, 1412-1425.	2.5	105
86	Accessory Chlorophyll Proteins in Cyanobacterial Photosystem I. , 2006, , 99-117.		13
87	Effects of imatinib and interferon on primitive chronic myeloid leukaemia progenitors. British Journal of Haematology, 2005, 130, 373-381.	1.2	87
88	Light-harvesting complex II protein CP29 binds to photosystem I of Chlamydomonas reinhardtii under State 2 conditions. FEBS Journal, 2005, 272, 4797-4806.	2.2	113
89	Spectral and Kinetic Analysis of the Energy Coupling in the PS Iâ€"LHC I Supercomplex from the Green Alga Chlamydomonas reinhardtii at 77ÂK. Photosynthesis Research, 2005, 86, 203-216.	1.6	23
90	The nature of the photosystem II reaction centre in the chlorophyll d-containing prokaryote, Acaryochloris marina. Photochemical and Photobiological Sciences, 2005, 4, 1060.	1.6	85

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91	Structural Analysis of the Photosystem II Core/Antenna Holocomplex by Electron Microscopy. , 2005, , 403-424.		4
92	Refined X-Ray Structure of Photosystem II and Its Implications. , 2005, , 469-489.		8
93	Structure of a large photosystem II supercomplex fromAcaryochloris marina. FEBS Letters, 2005, 579, 1306-1310.	1.3	61
94	Iron deficiency induces a chlorophyll d-binding Pcb antenna system around Photosystem I in Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 367-374.	0.5	46
95	Engine of life and big bang of evolution: a personal perspective. , 2005, , 283-301.		2
96	Structure of photosystem II and molecular architecture of the oxygen-evolving centre. Current Opinion in Structural Biology, 2004, 14, 447-453.	2.6	121
97	Engine of Life and Big Bang of Evolution: A Personal Perspective. Photosynthesis Research, 2004, 80, 137-155.	1.6	50
98	Analysis of the Structure of the PsbO Protein and its Implications. Photosynthesis Research, 2004, 81, 329-343.	1.6	117
99	Energy Coupling in the PSIâˆ'LHCI Supercomplex from the Green AlgaChlamydomonas reinhardtiiâ€,â€–. Journal of Physical Chemistry B, 2004, 108, 10547-10555.	1.2	39
100	The trimeric organisation of photosystem I is not necessary for the iron-stress induced CP43â€²protein to functionally associate with this reaction centre. FEBS Letters, 2004, 574, 126-130.	1.3	24
101	Evolution of oxygenic photosynthesis: genome-wide analysis of the OEC extrinsic proteins. Trends in Plant Science, 2004, 9, 18-25.	4.3	95
102	Architecture of the Photosynthetic Oxygen-Evolving Center. Science, 2004, 303, 1831-1838.	6.0	3,151
103	Structural model of the oxygen-evolving centre of photosystem II with mechanistic implications. Physical Chemistry Chemical Physics, 2004, 6, 4737.	1.3	101
104	Characterization of clonogenic multiple myeloma cells. Blood, 2004, 103, 2332-2336.	0.6	738
105	Photosystem II: Protein Components. , 2004, , 367-374.		1
106	Molecular to Global Photosynthesis. Series on Photoconversion of Solar Energy, 2004, , .	0.2	30
107	Structural Analysis of the Photosystem I Supercomplex of Cyanobacteria Induced by Iron Deficiencyâ€. Biochemistry, 2003, 42, 3180-3188.	1.2	60
108	Oxidation of the Two Î²-Carotene Molecules in the Photosystem II Reaction Centerâ€. Biochemistry, 2003, 42, 1008-1015.	1.2	65

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109	Time-Resolved Absorption and Emission Show that the CP43â€˜ Antenna Ring of Iron-StressedSynechocystissp. PCC6803 Is Efficiently Coupled to the Photosystem I Reaction Center Core,. Biochemistry, 2003, 42, 3893-3903.	1.2	99
110	Exploring the ability of chlorophyllbto bind to the CP43â€² protein induced under iron deprivation in a mutant ofSynechocystisPCC 6803 containing thecaogene. FEBS Letters, 2003, 541, 171-175.	1.3	12
111	The 1.45Ã… three-dimensional structure of C-phycocyanin from the thermophilic cyanobacterium Synechococcus elongatus. Journal of Structural Biology, 2003, 141, 149-155.	1.3	67
112	Structure of a photosystem II supercomplex isolated from Prochloron didemni retaining its chlorophyll a/b light-harvesting system. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9050-9054.	3.3	86
113	Three-dimensional Reconstruction of a Light-harvesting Complex I- Photosystem I (LHCI-PSI) Supercomplex from the Green Alga Chlamydomonas reinhardtii. Journal of Biological Chemistry, 2003, 278, 16135-16141.	1.6	123
114	Photosystem II: the engine of life. Quarterly Reviews of Biophysics, 2003, 36, 71-89.	2.4	237
115	Photosystem II: a multisubunit membrane protein that oxidises water. Current Opinion in Structural Biology, 2002, 12, 523-530.	2.6	125
116	P680: what is it and where is it?. Bioelectrochemistry, 2002, 55, 135-138.	2.4	25
117	Localisation of the PsbH subunit in photosystem II: a new approach using labelling of his-tags with a Ni2+-NTA gold cluster and single particle analysis. Journal of Molecular Biology, 2001, 312, 371-379.	2.0	66
118	Three-Dimensional Structure of the Photosystem II Core Dimer of Higher Plants Determined by Electron Microscopy. Journal of Structural Biology, 2001, 135, 262-269.	1.3	88
119	Subunit positioning and transmembrane helix organisation in the core dimer of photosystem II. FEBS Letters, 2001, 504, 142-151.	1.3	80
120	Relationship between Excitation Energy Transfer, Trapping, and Antenna Size in Photosystem II. Biochemistry, 2001, 40, 4026-4034.	1.2	39
121	The structure of photosystem I. , 2001, 8, 577-579.		12
122	Iron deficiency induces the formation of an antenna ring around trimeric photosystem I in cyanobacteria. Nature, 2001, 412, 743-745.	13.7	377
123	Photosynthetic Water Oxidation in Cytochromeb 559 Mutants Containing a Disrupted Heme-binding Pocket. Journal of Biological Chemistry, 2001, 276, 31986-31993.	1.6	31
124	Three-dimensional Model and Characterization of the Iron Stress-induced CP43â€²-Photosystem I Supercomplex Isolated from the Cyanobacterium Synechocystis PCC 6803. Journal of Biological Chemistry, 2001, 276, 43246-43252.	1.6	85
125	THREE-DIMENSIONAL STRUCTURE OF PHOTOSYSTEM II DETERMINED BY ELECTRON CRYSTALLOGRAPHY. Biochemical Society Transactions, 2000, 28, A79-A79.	1.6	0
126	3D map of the plant photosystem II supercomplex obtained by cryoelectron microscopy and single particle analysis. Nature Structural Biology, 2000, 7, 44-47.	9.7	172

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127	Degradation of the Photosystem II D1 and D2 proteins in different strains of the cyanobacterium Synechocytis PCC 6803 varying with respect to the type and level of psbA transcript. Plant Molecular Biology, 2000, 42, 635-645.	2.0	48
128	Functional characterization of the PS II-LHC II supercomplex isolated by a direct method from spinach thylakoid membranes. Photosynthesis Research, 2000, 64, 179-187.	1.6	5
129	Three-dimensional Structure of Chlamydomonas reinhardtii and Synechococcus elongatus Photosystem II Complexes Allows for Comparison of Their Oxygen-evolving Complex Organization. Journal of Biological Chemistry, 2000, 275, 27940-27946.	1.6	109
130	Phosphatidylglycerol Is Involved in the Dimerization of Photosystem II. Journal of Biological Chemistry, 2000, 275, 6509-6514.	1.6	158
131	Crystallisation of CP43, a Chlorophyll Binding Protein of Photosystem II: An Electron Microscopy Analysis of Molecular Packing. Journal of Structural Biology, 2000, 131, 181-186.	1.3	7
132	Supermolecular structure of photosystem II and location of the PsbS protein. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 1337-1344.	1.8	66
133	Revealing the structure of the oxygen-evolving core dimer of photosystem II by cryoelectron crystallography. Nature Structural Biology, 1999, 6, 560-564.	9.7	123
134	Title is missing!. Photosynthesis Research, 1999, 60, 191-198.	1.6	7
135	Title is missing!. Photosynthesis Research, 1999, 62, 205-217.	1.6	4
136	Subunit positioning in photosystem II revisited. Trends in Biochemical Sciences, 1999, 24, 43-45.	3.7	52
137	Substantial Deletions in the DE Loop of the Photosystem II D1 Protein Do Not Prevent its Turnover or Cross-linking with the Î±-subunit of Cytochrome b559. A Study Using Synechocystis sp. PCC 6803 Mutants. Journal of Plant Physiology, 1999, 154, 591-596.	1.6	7
138	Isolation of a highly active PSII-LHCII supercomplex from thylakoid membranes by a direct method. FEBS Letters, 1999, 446, 23-26.	1.3	60
139	Fourier-transform resonance Raman spectra of cation carotenoid in photosystem II reaction centres. FEBS Letters, 1999, 453, 11-14.	1.3	21
140	Three-dimensional structure of the plant photosystem II reaction centre at 8â€‰Å… resolution. Nature, 1998, 396, 283-286.	13.7	340
141	Localization of the 23-kDa subunit of the oxygen-evolving complex of photosystem II by electron microscopy. FEBS Journal, 1998, 252, 268-276.	0.2	54
142	Modulation of Quantum Yield of Primary Radical Pair Formation in Photosystem II by Site-Directed Mutagenesis Affecting Radical Cations and Anions. Biochemistry, 1998, 37, 17439-17447.	1.2	87
143	The entanglement of excitation energy transfer and electron transfer in the reaction centre of photosystem II. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 449-464.	1.6	24
144	Isolation and Characterization of Monomeric and Dimeric CP47-Reaction Center Photosystem II Complexes. Journal of Biological Chemistry, 1998, 273, 16122-16127.	1.6	97

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145	The Chloroplast-encoded Î± Subunit of Cytochromeb-559 Is Required for Assembly of the Photosystem Two Complex in both the Light and the Dark in Chlamydomonas reinhardtii. Journal of Biological Chemistry, 1998, 273, 29315-29320.	1.6	76
146	Comparison of the Functional Properties of the Monomeric and Dimeric Forms of the Isolated CP47-Reaction Center Complex. Journal of Biological Chemistry, 1998, 273, 16128-16133.	1.6	22
147	Three-dimensional structure of photosystem-II determined by electron microscopy of two-dimensional crystals. , 1998, , 913-917.		1
148	Primary Structure Characterization of the Photosystem II D1 and D2 Subunits. Journal of Biological Chemistry, 1997, 272, 33158-33166.	1.6	69
149	STRUCTURE AND MEMBRANE ORGANIZATION OF PHOTOSYSTEM II IN GREEN PLANTS. Annual Review of Plant Biology, 1997, 48, 641-671.	14.2	322
150	Structure and Thermal Stability of Photosystem II Reaction Centers Studied by Infrared Spectroscopyâ€. Biochemistry, 1997, 36, 8897-8903.	1.2	79
151	Stabilization of photosystem two dimers by phosphorylation: Implication for the regulation of the turnover of D1 protein. FEBS Letters, 1997, 408, 276-280.	1.3	75
152	Characterization of the Low Molecular Weight Photosystem II Reaction Center Subunits and Their Light-induced Modifications by Mass Spectrometry. Journal of Biological Chemistry, 1997, 272, 3935-3943.	1.6	55
153	Two-dimensional structure of plant photosystem II at 8-Ã… resolution. Nature, 1997, 389, 522-526.	13.7	159
154	The three-dimensional structure of a photosystem II core complex determined by electron crystallography. Structure, 1997, 5, 837-849.	1.6	62
155	Reduced Turnover of the D1 Polypeptide and Photoactivation of Electron Transfer in Novel Herbicide Resistant Mutants of Synechocystis sp. PCC 6803. FEBS Journal, 1997, 248, 731-740.	0.2	26
156	Isolation and Biochemical Characterization of Monomeric and Dimeric Photosystem II Complexes from Spinach and Their Relevance to the Organisation of Photosystem II In vivo. FEBS Journal, 1997, 243, 422-429.	0.2	188
157	Sub-picosecond Equilibration of Excitation Energy in Isolated Photosystem II Reaction Centers Revisited:â€‰ Time-Dependent Anisotropy. The Journal of Physical Chemistry, 1996, 100, 10469-10478.	2.9	45
158	Heterogeneity and Pigment Composition of Isolated Photosystem II Reaction Centersâ€. Biochemistry, 1996, 35, 15074-15079.	1.2	28
159	The lumenal loop connecting transmembrane helices I and II of the D1 polypeptide is important for assembly of the photosystem two complex. Photosynthesis Research, 1996, 50, 79-91.	1.6	4
160	pH sensitivity of the redox state of cytochrome b559 may regulate its function as a protectant against donor and acceptor side photoinhibition. Photosynthesis Research, 1995, 46, 193-202.	1.6	20
161	Isolation and characterisation of the Photosystem two reaction centre complex from a double mutant of Chlamydomonas reinhardtii. Photosynthesis Research, 1995, 43, 165-171.	1.6	21
162	Trapping of excitation energy by photosystem two reaction centres: Is P680 a multimer?. Solar Energy Materials and Solar Cells, 1995, 38, 135-138.	3.0	2

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163	Characterization of the Light-induced Cross-linking of the Î±-Subunit of Cytochrome b559 and the D1 Protein in Isolated Photosystem II Reaction Centers. Journal of Biological Chemistry, 1995, 270, 24032-24037.	1.6	33
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