James Barber

List of Publications by Year
in descending order

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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	Architecture of the Photosynthetic Oxygen-Evolving Center. Science, 2004, 303, 1831-1838.	6.0	3,151
2	Photosynthetic energy conversion: natural and artificial. Chemical Society Reviews, 2009, 38, 185-196.	18.7	1,569
3	Comparing Photosynthetic and Photovoltaic Efficiencies and Recognizing the Potential for Improvement. Science, 2011, 332, 805-809.	6.0	1,369
4	Too much of a good thing: light can be bad for photosynthesis. Trends in Biochemical Sciences, 1992, 17, 61-66.	3.7	925
5	Characterization of clonogenic multiple myeloma cells. Blood, 2004, 103, 2332-2336.	0.6	738
6	Recent advances in hybrid photocatalysts for solar fuel production. Energy and Environmental Science, 2012, 5, 5902.	15.6	563
7	Cations in Octahedral Sites: A Descriptor for Oxygen Electrocatalysis on Transitionâ€Metal Spinels. Advanced Materials, 2017, 29, 1606800.	11.1	525
8	Coordination polymer structure and revisited hydrogen evolution catalytic mechanism for amorphous molybdenumÂsulfide. Nature Materials, 2016, 15, 640-646.	13.3	490
9	Hetero-nanostructured suspended photocatalysts for solar-to-fuel conversion. Energy and Environmental Science, 2014, 7, 3934-3951.	15.6	470
10	Iron deficiency induces the formation of an antenna ring around trimeric photosystem I in cyanobacteria. Nature, 2001, 412, 743-745.	13.7	377
11	Three-dimensional structure of the plant photosystem II reaction centre at 8â€‰Ã… resolution. Nature, 1998, 396, 283-286.	13.7	340
12	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
13	STRUCTURE AND MEMBRANE ORGANIZATION OF PHOTOSYSTEM II IN GREEN PLANTS. Annual Review of Plant Biology, 1997, 48, 641-671.	14.2	322
14	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. Energy and Environmental Science, 2012, 5, 8912.	15.6	314
15	From natural to artificial photosynthesis. Journal of the Royal Society Interface, 2013, 10, 20120984.	1.5	293
16	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
17	Preparation of Au-BiVO₄ Heterogeneous Nanostructures as Highly Efficient Visible-Light Photocatalysts. ACS Applied Materials & Interfaces, 2012, 4, 418-423.	4.0	259
18	Perovskiteâ€“Hematite Tandem Cells for Efficient Overall Solar Driven Water Splitting. Nano Letters, 2015, 15, 3833-3839.	4.5	249

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19	Photosystem II: the engine of life. Quarterly Reviews of Biophysics, 2003, 36, 71-89.	2.4	237
20	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
21	Direct detection of singlet oxygen from isolated Photosystem II reaction centres. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1143, 301-309.	0.5	184
22	Novel cobalt/nickelâ€"tungsten-sulfide catalysts for electrocatalytic hydrogen generation from water. Energy and Environmental Science, 2013, 6, 2452.	15.6	182
23	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
24	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
25	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
26	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
27	.beta.-Carotene Quenches Singlet Oxygen Formed by Isolated Photosystem II Reaction Centers. Biochemistry, 1994, 33, 14469-14474.	1.2	167
28	Crystal Structure of the Oxygen-Evolving Complex of Photosystem II. Inorganic Chemistry, 2008, 47, 1700-1710.	1.9	166
29	Two-dimensional structure of plant photosystem II at 8-Ã… resolution. Nature, 1997, 389, 522-526.	13.7	159
30	Phosphatidylglycerol Is Involved in the Dimerization of Photosystem II. Journal of Biological Chemistry, 2000, 275, 6509-6514.	1.6	158
31	An overview of Cu-based heterogeneous electrocatalysts for CO₂reduction. Journal of Materials Chemistry A, 2020, 8, 4700-4734.	5.2	150
32	A novel strategy for surface treatment on hematite photoanode for efficient water oxidation. Chemical Science, 2013, 4, 164-169.	3.7	148
33	Monogalactosyldiacylglycerol: The most abundant polar lipid in nature. Trends in Biochemical Sciences, 1983, 8, 378-381.	3.7	143
34	Co₃O₄-Decorated Hematite Nanorods As an Effective Photoanode for Solar Water Oxidation. Journal of Physical Chemistry C, 2012, 116, 13884-13889.	1.5	141
35	Comparison of psbO and psbH deletion mutants of Synechocystis PCC 6803 indicates that degradation of D1 protein is regulated by the QB site and dependent on protein synthesis. Biochemistry, 1995, 34, 9625-9631.	1.2	130
36	Photosystem II: a multisubunit membrane protein that oxidises water. Current Opinion in Structural Biology, 2002, 12, 523-530.	2.6	125

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37	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
38	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
39	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
40	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
41	Structure of photosystem II and molecular architecture of the oxygen-evolving centre. Current Opinion in Structural Biology, 2004, 14, 447-453.	2.6	121
42	Iron based photoanodes for solar fuel production. Physical Chemistry Chemical Physics, 2014, 16, 11834.	1.3	120
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	Analysis of the Structure of the PsbO Protein and its Implications. Photosynthesis Research, 2004, 81, 329-343.	1.6	117
45	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
46	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
47	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
48	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
49	Two sites of primary degradation of the D1-protein induced by acceptor or donor side photo-inhibition in photosystem II core complexes. FEBS Letters, 1992, 301, 246-252.	1.3	108
50	Biological solar energy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1007-1023.	1.6	107
51	Further characterization of the psbH locus of Synechocystis sp. PCC 6803: Inactivation of psbH impairs QA to QB electron transport in photosystem 2. Biochemistry, 1993, 32, 1454-1465.	1.2	106
52	Environmentally Modulated Phosphoproteome of Photosynthetic Membranes in the Green Alga Chlamydomonas reinhardtii. Molecular and Cellular Proteomics, 2006, 5, 1412-1425.	2.5	105
53	Light Harvesting in Photosystem I Supercomplexesâ€,â€¡. Biochemistry, 2006, 45, 331-345.	1.2	103
54	Deletion of the gene encoding the Photosystem II 33 kDa protein from Synechocystis sp. PCC 6803 does not inactivate water-splitting but increases vulnerability to photoinhibition. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1060, 1-12.	0.5	102

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55	Structural, functional and auxiliary proteins of photosystem II. Photosynthesis Research, 2013, 116, 167-188.	1.6	102
56	Structural model of the oxygen-evolving centre of photosystem II with mechanistic implications. Physical Chemistry Chemical Physics, 2004, 6, 4737.	1.3	101
57	Artificial photosynthetic hydrogen evolution over g-C3N4 nanosheets coupled with cobaloxime. Physical Chemistry Chemical Physics, 2013, 15, 18363.	1.3	101
58	Observation of pheophytin reduction in photosystem two reaction centers using femtosecond transient absorption spectroscopy. Biochemistry, 1992, 31, 7638-7647.	1.2	100
59	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
60	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
61	A mechanism for water splitting and oxygen production in photosynthesis. Nature Plants, 2017, 3, 17041.	4.7	98
62	Isolation and Characterization of Monomeric and Dimeric CP47-Reaction Center Photosystem II Complexes. Journal of Biological Chemistry, 1998, 273, 16122-16127.	1.6	97
63	Evolution of oxygenic photosynthesis: genome-wide analysis of the OEC extrinsic proteins. Trends in Plant Science, 2004, 9, 18-25.	4.3	95
64	The effect of thylakoid lipids on an oxygen-evolving Photosystem II preparation. FEBS Letters, 1983, 163, 230-234.	1.3	94
65	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
66	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
67	Growth Temperature Effects on Thylakoid Membrane Lipid and Protein Content of Pea Chloroplasts. Plant Physiology, 1983, 72, 225-228.	2.3	88
68	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
69	Surface treatment of hematite photoanodes with zinc acetate for water oxidation. Nanoscale, 2012, 4, 4430.	2.8	88
70	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
71	Effects of imatinib and interferon on primitive chronic myeloid leukaemia progenitors. British Journal of Haematology, 2005, 130, 373-381.	1.2	87
72	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

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73	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
74	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
75	New evidence suggests that the initial photoinduced cleavage of the D1-protein may not occur near the PEST sequence. FEBS Letters, 1991, 290, 162-166.	1.3	84
76	Isolation and characterisation of a photosystem II reaction centre lipoprotein complex. FEBS Letters, 1985, 188, 68-72.	1.3	82
77	Subunit positioning and transmembrane helix organisation in the core dimer of photosystem II. FEBS Letters, 2001, 504, 142-151.	1.3	80
78	Structure and Thermal Stability of Photosystem II Reaction Centers Studied by Infrared Spectroscopyâ€. Biochemistry, 1997, 36, 8897-8903.	1.2	79
79	Spectral resolution of more than one chlorophyll electron donor in the isolated Photosystem II reaction centre complex. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1017, 143-151.	0.5	78
80	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
81	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
82	Hydrothermal Grown Nanoporous Iron Based Titanate, Fe₂TiO₅ for Light Driven Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 22490-22495.	4.0	74
83	Green-Synthesized BiVO₄ Oriented along {040} Facets for Visible-Light-Driven Ethylene Degradation. Industrial & Engineering Chemistry Research, 2014, 53, 2640-2646.	1.8	73
84	Deletion of the PEST-like Region of Photosystem Two Modifies the QB-binding Pocket but Does Not Prevent Rapid Turnover of D1. Journal of Biological Chemistry, 1995, 270, 14919-14927.	1.6	72
85	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
86	Primary Structure Characterization of the Photosystem II D1 and D2 Subunits. Journal of Biological Chemistry, 1997, 272, 33158-33166.	1.6	69
87	Revealing the structure of the Mn-cluster of photosystem II by X-ray crystallography. Coordination Chemistry Reviews, 2008, 252, 233-243.	9.5	68
88	Lateral heterogeneity of polar lipids in the thylakoid membranes of spinach chloroplasts. FEBS Letters, 1983, 156, 170-174.	1.3	67
89	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
90	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

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91	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
92	Oxidation of the Two Î²-Carotene Molecules in the Photosystem II Reaction Centerâ€. Biochemistry, 2003, 42, 1008-1015.	1.2	65
93	Acceptor side mechanism of photoinduced proteolysis of the D1 protein in photosystem II reaction centers. Biochemistry, 1993, 32, 6944-6950.	1.2	62
94	The three-dimensional structure of a photosystem II core complex determined by electron crystallography. Structure, 1997, 5, 837-849.	1.6	62
95	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
96	Engineering a Cu₂O/NiO/Cu₂MoS₄ hybrid photocathode for H₂ generation in water. Nanoscale, 2014, 6, 6506-6510.	2.8	62
97	Structure of a large photosystem II supercomplex fromAcaryochloris marina. FEBS Letters, 2005, 579, 1306-1310.	1.3	61
98	Isolation of a highly active PSII-LHCII supercomplex from thylakoid membranes by a direct method. FEBS Letters, 1999, 446, 23-26.	1.3	60
99	Structural Analysis of the Photosystem I Supercomplex of Cyanobacteria Induced by Iron Deficiencyâ€. Biochemistry, 2003, 42, 3180-3188.	1.2	60
100	Identification of a Calcium-Binding Site in the PsbO Protein of Photosystem IIâ€. Biochemistry, 2006, 45, 4128-4130.	1.2	60
101	CP43-like chlorophyll binding proteins: structural and evolutionary implications. Trends in Plant Science, 2006, 11, 152-158.	4.3	59
102	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
103	Thermoluminescence and flash-oxygen characterization of the IC2 deletion mutant of Synechocystis sp. PCC 6803 lacking the Photosystem II 33 kDa protein. Biochimica Et Biophysica Acta - Bioenergetics, 1992, 1102, 195-201.	0.5	57
104	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
105	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
106	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
107	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
108	What role does sulpholipid play within the thylakoid membrane?. Photosynthesis Research, 1986, 9, 239-249.	1.6	55

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109	Primary structure of the psbN-psbH-petC-petA gene cluster of the cyanobacterium Synechocystis PCC 6803. Plant Molecular Biology, 1991, 17, 289-293.	2.0	55
110	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
111	Photosynthetic generation of oxygen. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 2665-2674.	1.8	55
112	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
113	Lateral Segregation of Photosystem I in Cyanobacterial Thylakoids. Plant Cell, 2017, 29, 1119-1136.	3.1	54
114	Subunit positioning in photosystem II revisited. Trends in Biochemical Sciences, 1999, 24, 43-45.	3.7	52
115	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
116	Engine of Life and Big Bang of Evolution: A Personal Perspective. Photosynthesis Research, 2004, 80, 137-155.	1.6	50
117	Proton reduction to hydrogen in biological and chemical systems. Physical Chemistry Chemical Physics, 2012, 14, 13772.	1.3	50
118	Chlorophyll levels in the pigment-binding proteins of photosystem II A study based on the chlorophyll to cytochrome ratio in different photosystem II preparations. FEBS Letters, 1991, 286, 86-90.	1.3	48
119	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
120	In situ growth of Au nanoparticles on Fe2O3 nanocrystals for catalytic applications. CrystEngComm, 2012, 14, 7229.	1.3	48
121	Evidence for the photo-induced oxidation of the primary electron donor P680 in the isolated photosystem II reaction centre. FEBS Letters, 1989, 246, 223-228.	1.3	47
122	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
123	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
124	In vivo and in vitro photoinhibition reactions generate similar degradation fragments of D1 and D2 photosystem-II reaction-centre proteins. FEBS Journal, 1994, 220, 801-808.	0.2	45
125	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
126	Reconstitution of plastoquinone in the D1/D2/cytochrome b -559 photosystem II reaction centre complex. FEBS Letters, 1988, 240, 143-147.	1.3	44

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127	Characterization of photoinduced breakdown of the D1-polypeptide in isolated reaction centres of photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1992, 1099, 85-90.	0.5	42
128	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
129	Mn₄Ca Cluster of Photosynthetic Oxygen-Evolving Center: Structure, Function and Evolution. Biochemistry, 2016, 55, 5901-5906.	1.2	42
130	Photoinhibition and Law of Reciprocity in Photosynthetic Reactions of Synechocystis sp. PCC 6803. Journal of Plant Physiology, 1995, 145, 410-415.	1.6	41
131	Plasmon-Enhanced Hydrogen Evolution on Au-InVO4 Hybrid Microspheres. RSC Advances, 2012, 2, 5513.	1.7	40
132	Relationship between Excitation Energy Transfer, Trapping, and Antenna Size in Photosystem II. Biochemistry, 2001, 40, 4026-4034.	1.2	39
133	Energy Coupling in the PSIâ˜'LHCI Supercomplex from the Green AlgaChlamydomonas reinhardtiiâ€,â€–. Journal of Physical Chemistry B, 2004, 108, 10547-10555.	1.2	39
134	The interaction between the 33 kDa manganese-stabilising protein and the D1 /D2 cytochrome b -559 complex. FEBS Letters, 1988, 234, 374-378.	1.3	37
135	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
136	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
137	Detection of a 10 kDa breakdown product containing the C-terminus of the D 1-protein in photoinhibited wheat leaves suggests an acceptor side mechanism. FEBS Letters, 1993, 324, 341-344.	1.3	35
138	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
139	Electron transfer in the isolated photosystem II reaction centre complex. FEBS Letters, 1989, 255, 53-58.	1.3	33
140	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
141	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
142	Stoichiometry and turnover of photosystem II polypeptides. FEBS Letters, 1987, 211, 94-98.	1.3	31
143	Photosynthetic Water Oxidation in Cytochromeb 559 Mutants Containing a Disrupted Heme-binding Pocket. Journal of Biological Chemistry, 2001, 276, 31986-31993.	1.6	31
144	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

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145	Molecular to Global Photosynthesis. Series on Photoconversion of Solar Energy, 2004, , .	0.2	30
146	Determination of Catabolism of the Photosystem II D 1 Subunit by Structural Motifs in the Polypeptide Sequence. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1990, 45, 388-394.	0.6	28
147	Heterogeneity and Pigment Composition of Isolated Photosystem II Reaction Centersâ€. Biochemistry, 1996, 35, 15074-15079.	1.2	28
148	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
149	Hydrogen derived from water as a sustainable solar fuel: learning from biology. Sustainable Energy and Fuels, 2018, 2, 927-935.	2.5	28
150	Nucleotide sequence of the secondpsbG gene inSynechocystis6803. FEBS Letters, 1990, 262, 49-54.	1.3	27
151	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
152	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
153	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
154	P680: what is it and where is it?. Bioelectrochemistry, 2002, 55, 135-138.	2.4	25
155	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
156	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
157	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
158	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
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