

# Peter Heathcote

## List of Publications by Year in descending order

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83  
papers

3,191  
citations

94433

37  
h-index

168389

53  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Primary photochemistry in photosystem-I. <i>Photosynthesis Research</i> , 1985, 6, 295-316.	2.9	136
2	Reaction centres: the structure and evolution of biological solar power. <i>Trends in Biochemical Sciences</i> , 2002, 27, 79-87.	7.5	116
3	On the Mechanism of Quinol Oxidation in the bc1 Complex. <i>Journal of Biological Chemistry</i> , 1998, 273, 21603-21607.	3.4	103
4	Modelling of the electron transfer reactions in Photosystem I by electron tunnelling theory: The phylloquinones bound to the PsaA and the PsaB reaction centre subunits of PS I are almost isoenergetic to the iron-sulfur cluster FX. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1708, 283-310.	1.0	91
5	Bidirectional Electron Transfer in Photosystem I: Determination of Two Distances between P700+ and A1- in Spin-Correlated Radical Pairs. <i>Biochemistry</i> , 2005, 44, 2119-2128.	2.5	90
6	Path of Electron Transfer in Photosystem 1: Direct Evidence of Forward Electron Transfer from A1 to Fe-SX. <i>Biochemistry</i> , 1994, 33, 10037-10042.	2.5	86
7	A role for <i>Salmonella typhimurium</i> <i>cbiK</i> in cobalamin (vitamin B12) and siroheme biosynthesis. <i>Journal of Bacteriology</i> , 1997, 179, 3202-3212.	2.2	83
8	Radical S-Adenosylmethionine Enzyme Coproporphyrinogen III Oxidase HemN. <i>Journal of Biological Chemistry</i> , 2005, 280, 29038-29046.	3.4	81
9	ENDOR and Special Triple Resonance Spectroscopy of A1 of Photosystem I. <i>Biochemistry</i> , 1996, 35, 6651-6656.	2.5	76
10	Kinetic studies of electron transfer in a hybrid system constructed from the cytochrome bf complex and Photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1987, 892, 138-151.	1.0	73
11	Bidirectional electron transfer in photosystem I: electron transfer on the PsaA side is not essential for phototrophic growth in <i>Chlamydomonas</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1606, 43-55.	1.0	73
12	The Substrate Radical of <i>Escherichia coli</i> Oxygen-independent Coproporphyrinogen III Oxidase HemN. <i>Journal of Biological Chemistry</i> , 2006, 281, 15727-15734.	3.4	73
13	The role of the membrane-bound iron-sulphur centres A and B in the Photosystem I reaction centre of spinach chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1978, 503, 333-342.	1.0	65
14	Evidence from time resolved studies of the P700+/A1 radical pair for photosynthetic electron transfer on both the PsaA and PsaB branches of the photosystem I reaction centre. <i>FEBS Letters</i> , 2001, 503, 56-60.	2.8	64
15	Site-Directed Mutagenesis of PsaA Residue W693 Affects Phylloquinone Binding and Function in the Photosystem I Reaction Center of <i>Chlamydomonas reinhardtii</i> . <i>Biochemistry</i> , 2001, 40, 2167-2175.	2.5	63
16	Primary Charge Separation and Energy Transfer in the Photosystem I Reaction Center of Higher Plants. <i>The Journal of Physical Chemistry</i> , 1996, 100, 12086-12099.	2.9	62
17	Analysis of the Spin-Polarized Electron Spin Echo of the [P700+A1] Radical Pair of Photosystem I Indicates That Both Reaction Center Subunits Are Competent in Electron Transfer in Cyanobacteria, Green Algae, and Higher Plants. <i>Biochemistry</i> , 2006, 45, 7389-7403.	2.5	60
18	Effects of glycerol on the redox properties of the electron acceptor complex in spinach Photosystem I particles. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1980, 590, 89-96.	1.0	57

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19	The First Catalytic Step of the Light-driven Enzyme Protochlorophyllide Oxidoreductase Proceeds via a Charge Transfer Complex. <i>Journal of Biological Chemistry</i> , 2006, 281, 26847-26853.	3.4	57
20	ATP-driven Reduction by Dark-operative Protochlorophyllide Oxidoreductase from <i>Chlorobium tepidum</i> Mechanistically Resembles Nitrogenase Catalysis. <i>Journal of Biological Chemistry</i> , 2008, 283, 10559-10567.	3.4	57
21	Modulation analysis of the electron spin echo signals of in vivo oxidised primary donor <sup>14</sup> N chlorophyll centres in bacterial, P870 and P960, and plant Photosystem I, P700, reaction centres. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1143, 183-189.	1.0	54
22	Reaction of Bovine Cytochrome c Oxidase with Hydrogen Peroxide Produces a Tryptophan Cation Radical and a Porphyrin Cation Radical. <i>Biochemistry</i> , 2000, 39, 5921-5928.	2.5	54
23	<i>Bacillus subtilis</i> Fnr senses oxygen via a [4Fe-4S] cluster coordinated by three cysteine residues without change in the oligomeric state. <i>Molecular Microbiology</i> , 2006, 60, 1432-1445.	2.5	54
24	Identification and Characterization of a Novel Vitamin B12 (Cobalamin) Biosynthetic Enzyme (CobZ) from <i>Rhodobacter capsulatus</i> , Containing Flavin, Heme, and Fe-S Cofactors. <i>Journal of Biological Chemistry</i> , 2005, 280, 1086-1094.	3.4	52
25	Compelling EPR evidence that the alternative oxidase is a diiron carboxylate protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 327-330.	1.0	50
26	Characterization of the Cobaltochelatase CbiXL. <i>Journal of Biological Chemistry</i> , 2003, 278, 41900-41907.	3.4	49
27	Electron-paramagnetic-resonance measurements of the electron-transfer components of the reaction centre of <i>Rhodospseudomonas viridis</i> . Oxidation/reduction potentials and interactions of the electron acceptors. <i>Biochemical Journal</i> , 1979, 182, 515-523.	3.1	46
28	Chlorophyll triplet states associated with Photosystem I and Photosystem II in thylakoids of the green alga <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 88-105.	1.0	45
29	Type I photosynthetic reaction centres: structure and function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 231-243.	4.0	44
30	Aerobic synthesis of vitamin B12: ring contraction and cobalt chelation. <i>Biochemical Society Transactions</i> , 2005, 33, 815-819.	3.4	44
31	Kinetic Analysis of the Thermal Stability of the Photosynthetic Reaction Center from <i>Rhodobacter sphaeroides</i> . <i>Biophysical Journal</i> , 2006, 90, 4155-4166.	0.5	44
32	Assignment of a kinetic component to electron transfer between iron-sulfur clusters FX and FA/B of Photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1529-1538.	1.0	44
33	ENDOR and Special TRIPLE Resonance Spectroscopy of Photoaccumulated Semiquinone Electron Acceptors in the Reaction Centers of Green Sulfur Bacteria and Heliobacteria. <i>Biochemistry</i> , 1999, 38, 7159-7167.	2.5	42
34	Identification and Characterization of the Terminal Enzyme of Siroheme Biosynthesis from <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 4713-4721.	3.4	42
35	Exploring the Electron Transfer Pathways in Photosystem I by High-Time-Resolution Electron Paramagnetic Resonance: Observation of the B-Side Radical Pair P700+A1B in Whole Cells of the Deuterated Green Alga <i>Chlamydomonas reinhardtii</i> at Cryogenic Temperatures. <i>Journal of the American Chemical Society</i> , 2012, 134, 5563-5576.	13.7	42
36	The reactions of hydrogen peroxide with bovine cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1456, 56-66.	1.0	41

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37	Characterization of <i>Bacillus subtilis</i> aspartate oxidase and quinolinate synthase from <i>Bacillus subtilis</i> . FEBS Journal, 2008, 275, 5090-5107.	4.7	39
38	Double-reduction of A1 abolishes the EPR signal attributed to A <sup>•</sup> 1: Evidence for C2 symmetry in the Photosystem I reaction centre. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1144, 54-61.	1.0	38
39	Quantitative electron-paramagnetic-resonance measurements of the electron-transfer components of the photosystem-I reaction centre. Biochemical Journal, 1978, 170, 365-371.	3.1	37
40	An EPR analysis of the partially purified cytochrome bf complex of higher-plant chloroplasts. FEBS Letters, 1980, 116, 51-56.	2.8	37
41	Radicals associated with the catalytic intermediates of bovine cytochrome c oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1554, 137-146.	1.0	37
42	Electron nuclear double resonance (ENDOR) spectroscopy of radicals in photosystem I and related Type I photosynthetic reaction centres. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1507, 247-259.	1.0	35
43	Properties of the EPR spectrum of the intermediary electron acceptor (A1) in several different photosystem I particle preparations. FEBS Letters, 1980, 111, 381-385.	2.8	33
44	Photoaccumulation in Photosystem I Does Produce a Phylloquinone (A1 <sup>-</sup> ) Radical. Biochemistry, 1996, 35, 6644-6650.	2.5	33
45	Quantitative electron-paramagnetic-resonance measurements of the electron-transfer components of the photosystem-I reaction centre. The reaction-centre chlorophyll (P700), the primary electron acceptor X and bound iron-sulphur centre A. Biochemical Journal, 1978, 170, 373-378.	3.1	32
46	Production of cobalamin and sirohaem in <i>Bacillus megaterium</i> : an investigation into the role of the branchpoint chelatases sirohydrochlorin ferrochelatase (SirB) and sirohydrochlorin cobalt chelatase (CbiX). Biochemical Society Transactions, 2002, 30, 610-613.	3.4	31
47	The electronic structure of P840+ The primary donor of the <i>Chlorobium limicola</i> f. sp. thiosulphatophilum photosynthetic reaction centre. FEBS Letters, 1994, 350, 24-28.	2.8	30
48	Bidirectional electron transfer in photosystem I: Replacement of the symmetry-breaking tryptophan close to the PsaB-bound phylloquinone (A1B) with a glycine residue alters the redox properties of A1B and blocks forward electron transfer at cryogenic temperatures. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1623-1633.	1.0	30
49	Reconstituted energy transfer from antenna pigment-protein to reaction centres isolated from <i>Rhodospseudomonas sphaeroides</i> . Biochimica Et Biophysica Acta - Bioenergetics, 1977, 459, 506-515.	1.0	27
50	Proteins, chlorophylls and lipids: X-ray analysis of a three-way relationship. Trends in Plant Science, 2005, 10, 275-282.	8.8	27
51	ENDOR and Special TRIPLE Resonance Spectroscopy of QA <sub>bul</sub> - of Photosystem 2. Biochemistry, 1995, 34, 12075-12081.	2.5	26
52	Elucidation of Substrate Specificity in the Cobalamin (Vitamin B12) Biosynthetic Methyltransferases. Journal of Biological Chemistry, 2007, 282, 23957-23969.	3.4	26
53	Photoaccumulation of the PsaB phyllosemiquinone in Photosystem I of <i>Chlamydomonas reinhardtii</i> . Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1556, 13-20.	1.0	24
54	Anaerobic synthesis of vitamin B12: characterization of the early steps in the pathway. Biochemical Society Transactions, 2005, 33, 811-814.	3.4	22

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55	On the reduction of chlorophyll-A I in the presence of the plastoquinone antagonist dibromothymoquinone. <i>FEBS Letters</i> , 1974, 47, 229-235.	2.8	19
56	ENDOR spectroscopic studies of stable semiquinone radicals bound to the Escherichia coli cytochrome bo <sub>3</sub> quinol oxidase. <i>FEBS Journal</i> , 2000, 267, 5638-5645.	0.2	19
57	Photosynthetic control and photophosphorylation in photosystem II of isolated spinach chloroplasts. <i>Biochemical and Biophysical Research Communications</i> , 1974, 56, 767-774.	2.1	17
58	Light-activated proton-motive force generation in lipid vesicles containing cytochrome b-c <sub>1</sub> complex and bacterial reaction centres. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1983, 725, 332-340.	1.0	17
59	Development of Indicators to Assess Quality of Care for Prostate Cancer. <i>European Urology Focus</i> , 2018, 4, 57-63.	3.1	17
60	Ten-year quality of life outcomes in men with prostate cancer. <i>Psycho-Oncology</i> , 2020, 29, 444-449.	2.3	17
61	Title is missing!. <i>Photosynthesis Research</i> , 1999, 61, 33-42.	2.9	16
62	Temporal mapping of photochemical reactions and molecular excited states with carbon specificity. <i>Nature Materials</i> , 2017, 16, 467-473.	27.5	16
63	Proton ENDOR spectroscopy of the anion radicals of the chlorophyll primary electron acceptors in type I photosynthetic reaction centres. <i>Chemical Physics</i> , 2003, 294, 319-328.	1.9	15
64	Insights into the evolution of the antenna domains of Type-I and Type-II photosynthetic reaction centres through homology modelling. <i>FEBS Letters</i> , 2002, 530, 117-123.	2.8	14
65	Opposing structural changes in two symmetrical polypeptides bring about opposing changes to the thermal stability of a complex integral membrane protein. <i>Archives of Biochemistry and Biophysics</i> , 2011, 505, 160-170.	3.0	14
66	<sup>14</sup> N Electron Spin Echo Envelope Modulation (ESEEM) Spectroscopy of the Cation Radical P840 <sup>+</sup> , the Primary Electron Donor of the Chlorobium limicola Reaction Center. <i>Photochemistry and Photobiology</i> , 1996, 64, 20-25.	2.5	13
67	On the Role of Basic Residues in Adapting the Reaction Centre "LH1 Complex for Growth at Elevated Temperatures in Purple Bacteria. <i>Photosynthesis Research</i> , 2005, 86, 81-100.	2.9	13
68	Cobalamin (vitamin B12) biosynthesis in Rhodobacter capsulatus. <i>Biochemical Society Transactions</i> , 2002, 30, 646-648.	3.4	12
69	A Fluorescence Detected Magnetic Resonance Investigation of the Carotenoid Triplet States Associated with Photosystem II of Isolated Spinach Thylakoid Membranes. <i>Photosynthesis Research</i> , 2005, 86, 283-296.	2.9	12
70	EPR at 24 T of the primary donor radical cation from Blastochloris viridis. <i>Chemical Physics</i> , 2003, 294, 277-284.	1.9	11
71	Future directions of "SR laser excitation. <i>Physica Scripta</i> , 2013, 88, 068511.	2.5	11
72	The new high field photoexcitation muon spectrometer at the ISIS pulsed neutron and muon source. <i>Review of Scientific Instruments</i> , 2016, 87, 125111.	1.3	11

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73	Detection of chemically-induced dynamic electron polarisation (CIDEP) in whole cells and membrane fractions of <i>Chlorobium limicola</i> f. <i>thiosulphatophilum</i> . <i>FEBS Letters</i> , 1982, 140, 277-281.	2.8	10
74	Type I photosynthetic reaction centres. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1507, 1-2.	1.0	10
75	8.7 The Structure-Function Relationships of Photosynthetic Reaction Centers. , 2012, , 115-144.		9
76	Protonation reactions in relation to the coupling mechanism of bovine cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1459, 475-480.	1.0	6
77	Fluorescence and Absorption Detected Magnetic Resonance of Membranes from the Green Sulfur Bacterium <i>Chlorobium limicola</i> . Full Assignment of Detected Triplet States. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7560-7568.	2.6	6
78	Detection by EPR spectrometry of a new intermediate in the primary photochemistry of photosystem I particles isolated using Triton X-100. <i>FEBS Letters</i> , 1979, 101, 105-9.	2.8	3
79	Two Dimensional Fourier Transform Electron Spin Echo Envelope Modulation Spectroscopy of the <sup>14</sup> N Primary Donors, P700+ and P870+.. , 1995, , 1161-1164.		1
80	Electron-Nuclear-Nuclear Special Triple Resonance Studies of a Quinone Electron Acceptor in the Photosynthetic Reaction Centres of Green Sulphur Photosynthetic Bacteria. , 1995, , 1137-1140.		1
81	S13.14 Spectroscopic and structural studies of the alternative oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, S91-S92.	1.0	0
82	Reply to: On the observation of photo-excitation effects in molecules using muon spin spectroscopy. <i>Nature Materials</i> , 2021, , .	27.5	0
83	Studies of the Protein Binding Pocket for Naphthoquinones in Type I (Ferredoxin-Reducing) Reaction Centres. , 1998, , 559-562.		0