C Neil Hunter

List of Publications by Year
in descending order

245 papers	12,279 citations	16451 64 h-index	38395 95 g-index
249 all docs	249 docs citations	249 times ranked	6207 citing authors

#	Article	IF	Citations
1	The native architecture of a photosynthetic membrane. Nature, 2004, 430, 1058-1062.	27.8	435
2	Projection structures of three photosynthetic complexes from Rhodobacter sphaeroides : LH2 at 6 Ã…, LH1 and RC-LH1 at 25 Ã… 1 1Edited by K. Nagai. Journal of Molecular Biology, 1998, 282, 833-845.	4.2	275
3	Genetically modified photosynthetic antenna complexes with blueshifted absorbance bands. Nature, 1992, 355, 848-850.	27.8	256
4	Magnesium-protoporphyrin chelatase of Rhodobacter sphaeroides: reconstitution of activity by combining the products of the bchH, -I, and -D genes expressed in Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 1941-1944.	7.1	197
5	Isolation and characterization of the pigment-protein complexes of Rhodopseudomonas sphaeroides by lithium dodecyl sulfate/polyacrylamide gel electrophoresis.. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 87-91.	7.1	186
6	Biosynthesis of the modified tetrapyrrolesâ€”the pigments of life. Journal of Biological Chemistry, 2020, 295, 6888-6925.	3.4	170
7	Making light work of enzyme catalysis: protochlorophyllide oxidoreductase. Trends in Biochemical Sciences, 2005, 30, 642-649.	7.5	166
8	Atomic-level structural and functional model of a bacterial photosynthetic membrane vesicle. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15723-15728.	7.1	166
9	Zwitterionic Poly(amino acid methacrylate) Brushes. Journal of the American Chemical Society, 2014, 136, 9404-9413.	13.7	162
10	The 8.5Ã… Projection Structure of the Core RCâ€“LH1â€“PufX Dimer of Rhodobacter sphaeroides. Journal of Molecular Biology, 2005, 349, 948-960.	4.2	157
11	Molecular architecture of photosynthetic membranes in Rhodobacter sphaeroides: the role of PufX. EMBO Journal, 2004, 23, 690-700.	7.8	155
12	Blue shifts in bacteriochlorophyll absorbance correlate with changed hydrogen bonding patterns in light-harvesting 2 mutants of Rhodobacter sphaeroides with alterations at Î±-Tyr-44 and Î±-Tyr-45. Biochemical Journal, 1994, 299, 695-700.	3.7	152
13	Expression of the chlI, chlD, and chlH Genes from the Cyanobacterium Synechocystis PCC6803 in Escherichia coli and Demonstration That the Three Cognate Proteins Are Required for Magnesium-protoporphyrin Chelatase Activity. Journal of Biological Chemistry, 1996, 271, 16662-16667.	3.4	149
14	FÃ¶rster Energy Transfer Theory as Reflected in the Structures of Photosynthetic Lightâ€Harvesting Systems. ChemPhysChem, 2011, 12, 518-531.	2.1	142
15	Structural Analysis of the Reaction Center Light-harvesting Complex I Photosynthetic Core Complex of Rhodospirillum rubrum Using Atomic Force Microscopy. Journal of Biological Chemistry, 2004, 279, 2063-2068.	3.4	140
16	Projection structure of the photosynthetic reaction centre-antenna complex of Rhodospirillum rubrum at 8.5 A resolution. EMBO Journal, 2002, 21, 3927-3935.	7.8	137
17	The relationship between carotenoid biosynthesis and the assembly of the light-harvesting LH2 complex in <i>Rhodobacter sphaeroides</i>. Biochemical Journal, 1994, 298, 197-205.	3.7	135
18	Conformational changes in an ultrafast light-driven enzyme determine catalytic activity. Nature, 2008, 456, 1001-1004.	27.8	133

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19	Localized transposon Tn5 mutagenesis of the photosynthetic gene cluster of Rhodobacter sphaeroides. Molecular Microbiology, 1990, 4, 977-989.	2.5	131
20	Oligomerization states and associations of light-harvesting pigment-protein complexes of Rhodobacter sphaeroides as analyzed by lithium dodecyl sulfate-polyacrylamide gel electrophoresis. Biochemistry, 1988, 27, 3459-3467.	2.5	126
21	Structural and Biochemical Characterization of Gun4 Suggests a Mechanism for Its Role in Chlorophyll Biosynthesisâ€‚â€¡. Biochemistry, 2005, 44, 7603-7612.	2.5	126
22	A Cyanobacterial Chlorophyll Synthase-HliD Complex Associates with the Ycf39 Protein and the YidC/Alb3 Insertase Â. Plant Cell, 2014, 26, 1267-1279.	6.6	125
23	Temporally and spectrally resolved subpicosecond energy transfer within the peripheral antenna complex (LH2) and from LH2 to the core antenna complex in photosynthetic purple bacteria.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 12333-12337.	7.1	124
24	Three-Dimensional Structure of the <i>Rhodobacter sphaeroides</i> RC-LH1-PufX Complex: Dimerization and Quinone Channels Promoted by PufX. Biochemistry, 2013, 52, 7575-7585.	2.5	122
25	Atoms to Phenotypes: Molecular Design Principles of Cellular Energy Metabolism. Cell, 2019, 179, 1098-1111.e23.	28.9	122
26	Three Separate Proteins Constitute the Magnesium Chelatase of Rhodobacter Sphaeroides. FEBS Journal, 1996, 235, 438-443.	0.2	121
27	Modification of a hydrogen bond to a bacteriochlorophyll a molecule in the light-harvesting 1 antenna of Rhodobacter sphaeroides.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 7124-7128.	7.1	116
28	Temperature dependence of energy transfer from the long wavelength antenna BChl-896 to the reaction center in Rhodospirillum rubrum, Rhodobacter sphaeroides (w.t. and M21 mutant) from 77 to 177K, studied by picosecond absorption spectroscopy. Photosynthesis Research, 1989, 22, 211-217.	2.9	114
29	Flexibility and Size Heterogeneity of the LH1 Light Harvesting Complex Revealed by Atomic Force Microscopy. Journal of Biological Chemistry, 2004, 279, 21327-21333.	3.4	113
30	Membrane invagination in <i>Rhodobacter sphaeroides</i> is initiated at curved regions of the cytoplasmic membrane, then forms both budded and fully detached spherical vesicles. Molecular Microbiology, 2010, 76, 833-847.	2.5	110
31	The purple bacterial photosynthetic unit. Photosynthesis Research, 1996, 48, 55-63.	2.9	103
32	Integration of energy and electron transfer processes in the photosynthetic membrane of Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1769-1780.	1.0	99
33	Dynamic thylakoid stacking regulates the balance between linear and cyclic photosynthetic electron transfer. Nature Plants, 2018, 4, 116-127.	9.3	98
34	Determinants of catalytic activity with the use of purified I, D and H subunits of the magnesium protoporphyrin IX chelatase from Synechocystis PCC6803. Biochemical Journal, 1998, 334, 335-344.	3.7	96
35	Functions of Conserved Tryptophan Residues of the Core Light-Harvesting Complex of Rhodobacter sphaeroides. Biochemistry, 1997, 36, 2772-2778.	2.5	94
36	ATPase activity associated with the magnesium-protoporphyrin IX chelatase enzyme of Synechocystis PCC6803: evidence for ATP hydrolysis during Mg2+ insertion, and the MgATP-dependent interaction of the ChlI and ChlD subunits. Biochemical Journal, 1999, 339, 127-134.	3.7	94

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37	Three-dimensional Reconstruction of a Membrane-bending Complex. Journal of Biological Chemistry, 2008, 283, 14002-14011.	3.4	92
38	Characterization of the Binding of Deuteroporphyrin IX to the Magnesium Chelatase H Subunit and Spectroscopic Properties of the Complex. Biochemistry, 2001, 40, 9291-9299.	2.5	90
39	Complete DNA sequence, specific Tn5 insertion map, and gene assignment of the carotenoid biosynthesis pathway of Rhodobacter sphaeroides. Journal of Bacteriology, 1995, 177, 2064-2073.	2.2	88
40	Atomic Force Microscopy Studies of Native Photosynthetic Membranes. Biochemistry, 2009, 48, 3679-3698.	2.5	88
41	Cryo-EM structure of the Blastochloris viridis LH1â€"RC complex at 2.9 Ã…. Nature, 2018, 556, 203-208.	27.8	88
42	Site-Directed Modification of the Ligands to the Bacteriochlorophylls of the Light-Harvesting LH1 and LH2 Complexes ofRhodobactersphaeroidesâ€. Biochemistry, 1997, 36, 12625-12632.	2.5	87
43	Assembly of functional photosystem complexes in Rhodobacter sphaeroides incorporating carotenoids from the spirilloxanthin pathway. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 189-201.	1.0	84
44	Structural Studies of Wild-Type and Mutant Reaction Centers from an Antenna-Deficient Strain of Rhodobacter sphaeroides:â€‰ Monitoring the Optical Properties of the Complex from Bacterial Cell to Crystal. Biochemistry, 1998, 37, 4740-4750.	2.5	83
45	Conserved Chloroplast Open-reading Frame ycf54 Is Required for Activity of the Magnesium Protoporphyrin Monomethylester Oxidative Cyclase in Synechocystis PCC 6803. Journal of Biological Chemistry, 2012, 287, 27823-27833.	3.4	83
46	Cryo-EM structure of the spinach cytochrome b6â€‰fâ€…complex at 3.6Â Ã… resolution. Nature, 2019, 575, 535-539.	27.8	83
47	TheRhodobacter sphaeroidesPufX protein is not required for photosynthetic competence in the absence of a light harvesting system. FEBS Letters, 1994, 349, 349-353.	2.8	80
48	Trapping Kinetics in Mutants of the Photosynthetic Purple Bacterium Rhodobacter sphaeroides: Influence of the Charge Separation Rate and Consequences for the Rate-Limiting Step in the Light-Harvesting Process. Biochemistry, 1994, 33, 3143-3147.	2.5	77
49	Ultrafast enzymatic reaction dynamics in protochlorophyllide oxidoreductase. Nature Structural and Molecular Biology, 2003, 10, 491-492.	8.2	76
50	Magnesium-dependent ATPase Activity and Cooperativity of Magnesium Chelatase from Synechocystis sp. PCC6803. Journal of Biological Chemistry, 2004, 279, 26893-26899.	3.4	76
51	Characterization of the Light-Harvesting Antennas of Photosynthetic Purple Bacteria by Stark Spectroscopy. 1. LH1 Antenna Complex and the B820 Subunit from Rhodospirillum rubrum. Journal of Physical Chemistry B, 1997, 101, 7284-7292.	2.6	75
52	Cytochrome b6f â€" Orchestrator of photosynthetic electron transfer. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148380.	1.0	75
53	A putative anaerobic coproporphyrinogen III oxidase in Rhodobacter sphaeroides. I. Molecular cloning, transposon mutagenesis and sequence analysis of the gene. Molecular Microbiology, 1992, 6, 3159-3169.	2.5	74
54	Protein Shape and Crowding Drive Domain Formation and Curvature in Biological Membranes. Biophysical Journal, 2008, 94, 640-647.	0.5	74

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55	Nanodomains of Cytochrome<i>b</i>Â6 Â<i>f</i>and Photosystem II Complexes in Spinach Grana Thylakoid Membranes Â. Plant Cell, 2014, 26, 3051-3061.	6.6	74
56	An intact light harvesting complex I antenna system is required for complete state transitions in Arabidopsis. Nature Plants, 2015, 1, 15176.	9.3	74
57	Magnesium chelatase from Rhodobacter sphaeroides: initial characterization of the enzyme using purified subunits and evidence for a BchIâ€"BchD complex. Biochemical Journal, 1999, 337, 243-251.	3.7	73
58	Influence of the Protein Binding Site on the Absorption Properties of the Monomeric Bacteriochlorophyll in Rhodobacter sphaeroides LH2 Complex. Biochemistry, 1997, 36, 16282-16287.	2.5	72
59	Singleâ€cell genomics based on Raman sorting reveals novel carotenoidâ€containing bacteria in the Red Sea. Microbial Biotechnology, 2017, 10, 125-137.	4.2	72
60	Introduction of new carotenoids into the bacterial photosynthetic apparatus by combining the carotenoid biosynthetic pathways of Erwinia herbicola and Rhodobacter sphaeroides. Journal of Bacteriology, 1994, 176, 3692-3697.	2.2	70
61	Adaptation of intracytoplasmic membranes to altered light intensity in Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1616-1627.	1.0	69
62	The LH1â€"RC core complex of Rhodobacter sphaeroides: interaction between components, time-dependent assembly, and topology of the PufX protein. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1366, 301-316.	1.0	68
63	Nanometer Arrays of Functional Light Harvesting Antenna Complexes by Nanoimprint Lithography and Hostâ^'Guest Interactions. Journal of the American Chemical Society, 2008, 130, 8892-8893.	13.7	68
64	Protein-Induced Membrane Curvature Investigated through Molecular Dynamics Flexible Fitting. Biophysical Journal, 2009, 97, 321-329.	0.5	68
65	Long-Range Energy Propagation in Nanometer Arrays of Light Harvesting Antenna Complexes. Nano Letters, 2010, 10, 1450-1457.	9.1	68
66	Physical Mapping and Functional Assignment of the Geranylgeranyl-Bacteriochlorophyll Reductase Gene, <i>bchP</i> , of <i>Rhodobacter sphaeroides</i>. Journal of Bacteriology, 1999, 181, 7248-7255.	2.2	67
67	Enhanced rates of subpicosecond energy transfer in blue-shifted light-harvesting LH2 mutants of Rhodobacter sphaeroides.. Biochemistry, 1994, 33, 8300-8305.	2.5	66
68	Consequences for the Organization of Reaction Center-Light Harvesting Antenna 1 (LH1) Core Complexes of Rhodobacter sphaeroides Arising from Deletion of Amino Acid Residues from the C Terminus of the LH1 Î± Polypeptide. Journal of Biological Chemistry, 1996, 271, 3285-3292.	3.4	66
69	The photosynthesis gene cluster of Rhodobacter sphaeroides. Photosynthesis Research, 1999, 62, 121-139.	2.9	66
70	The long-range organization of a native photosynthetic membrane. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17994-17999.	7.1	64
71	Overall energy conversion efficiency of a photosynthetic vesicle. ELife, 2016, 5, .	6.0	63
72	Cloning, sequencing and functional assignment of the chlorophyll biosynthesis gene,chlP, ofSynechocystissp. PCC 6803. FEBS Letters, 1996, 389, 126-130.	2.8	62

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73	Isolation of the PufX Protein fromRhodobactercapsulatusandRhodobactersphaeroides:Â Evidence for Its Interaction with the Î±-Polypeptide of the Core Light-Harvesting Complexâ€. Biochemistry, 1998, 37, 11055-11063.	2.5	61
74	Photosynthetic Vesicle Architecture and Constraints on Efficient EnergyÂHarvesting. Biophysical Journal, 2010, 99, 67-75.	0.5	60
75	Strong Coupling of Localized Surface Plasmons to Excitons in Light-Harvesting Complexes. Nano Letters, 2016, 16, 6850-6856.	9.1	60
76	The Organization of LH2 Complexes in Membranes from Rhodobacter sphaeroides. Journal of Biological Chemistry, 2008, 283, 30772-30779.	3.4	59
77	Photoprotection in a purple phototrophic bacterium mediated by oxygen-dependent alteration of carotenoid excited-state properties. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8570-8575.	7.1	59
78	The ATPase Activity of the ChlI Subunit of Magnesium Chelatase and Formation of a Heptameric AAA+Ringâ€. Biochemistry, 2003, 42, 6912-6920.	2.5	57
79	Early steps in carotenoid biosynthesis: sequences and transcriptional analysis of the crtI and crtB genes of Rhodobacter sphaeroides and overexpression and reactivation of crtI in Escherichia coli and R. sphaeroides. Journal of Bacteriology, 1994, 176, 3859-3869.	2.2	56
80	Ultrafast Carotenoid Band Shifts Probe Structure and Dynamics in Photosynthetic Antenna Complexesâ€. Biochemistry, 1998, 37, 7057-7061.	2.5	56
81	Nature of Disorder and Inter-Complex Energy Transfer in LH2 at Room Temperature:â€‰ A Three Pulse Photon Echo Peak Shift Study. Journal of Physical Chemistry A, 2002, 106, 7573-7578.	2.5	55
82	DNA sequencing and complementation/deletion analysis of the bchA-puf operon region of Rhodobacter sphaeroides: in vivo mapping of the oxygen-regulated puf promoter. Molecular Microbiology, 1991, 5, 2649-2661.	2.5	54
83	Directed Formation of Micro- and Nanoscale Patterns of Functional Light-Harvesting LH2 Complexes. Journal of the American Chemical Society, 2007, 129, 14625-14631.	13.7	54
84	Lateral Segregation of Photosystem I in Cyanobacterial Thylakoids. Plant Cell, 2017, 29, 1119-1136.	6.6	54
85	Dynamic Thylakoid Stacking Is Regulated by LHCII Phosphorylation but Not Its interaction with PSI. Plant Physiology, 2019, 180, 2152-2166.	4.8	54
86	Site-Specific Immobilization and Micrometer and Nanometer Scale Photopatterning of Yellow Fluorescent Protein on Glass Surfaces. Journal of the American Chemical Society, 2009, 131, 896-897.	13.7	53
87	Time-resolved and steady-state spectroscopic analysis of membrane-bound reaction centers from Rhodobacter sphaeroides. Comparisons with detergent-solubilized complexes.. Biochemistry, 1995, 34, 14712-14721.	2.5	52
88	NADPH:protochlorophyllide oxidoreductase from Synechocystis : overexpression, purification and preliminary characterisation. FEBS Letters, 2000, 483, 47-51.	2.8	52
89	The molecular basis of phosphite and hypophosphite recognition by ABC-transporters. Nature Communications, 2017, 8, 1746.	12.8	50
90	Energy-transfer dynamics in three light-harvesting mutants of Rhodobacter sphaeroides: a picosecond spectroscopy study. Biochemistry, 1990, 29, 3203-3207.	2.5	49

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91	Evaluation of Structureâˆ'Function Relationships in the Core Light-Harvesting Complex of Photosynthetic Bacteria by Reconstitution with Mutant Polypeptidesâ€. Biochemistry, 1997, 36, 3671-3679.	2.5	48
92	Magnesium chelatase from Rhodobacter sphaeroides: initial characterization of the enzyme using purified subunits and evidence for a Bchlâ€'BchD complex. Biochemical Journal, 1999, 337, 243.	3.7	48
93	Structural model and excitonic properties of the dimeric RCâ€“LH1â€“PufX complex from Rhodobacter sphaeroides. Chemical Physics, 2009, 357, 188-197.	1.9	48
94	The Role of Î²Arg-10 in the B800 Bacteriochlorophyll and Carotenoid Pigment Environment within the Light-Harvesting LH2 Complex of Rhodobacter sphaeroides. Biochemistry, 1997, 36, 11282-11291.	2.5	47
95	Extensive remodeling of the photosynthetic apparatus alters energy transfer among photosynthetic complexes when cyanobacteria acclimate to far-red light. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148064.	1.0	46
96	Kinetic basis for linking the first two enzymes of chlorophyll biosynthesis. FEBS Journal, 2005, 272, 4532-4539.	4.7	45
97	Direct Imaging of Protein Organization in an Intact Bacterial Organelle Using High-Resolution Atomic Force Microscopy. ACS Nano, 2017, 11, 126-133.	14.6	45
98	Dynamics of Energy Transfer from Lycopene to Bacteriochlorophyll in Genetically-Modified LH2 Complexes ofRhodobacter sphaeroidesâ€. Biochemistry, 2002, 41, 4127-4136.	2.5	44
99	Isolation, Size Estimates, and Spectral Heterogeneity of an Oligomeric Series of Light-Harvesting 1 Complexes from Rhodobacter sphaeroides. Biochemistry, 2002, 41, 8698-8707.	2.5	44
100	Direct Measurement of Metal Ion Chelation in the Active Site of Human Ferrochelatase. Biochemistry, 2007, 46, 8121-8127.	2.5	44
101	Mapping the ultrafast flow of harvested solar energy in living photosynthetic cells. Nature Communications, 2017, 8, 988.	12.8	44
102	The assembly and organisation of photosynthetic membranes in Rhodobacter sphaeroides. Photochemical and Photobiological Sciences, 2005, 4, 1023.	2.9	43
103	Developmental acclimation of the thylakoid proteome to light intensity in <i>Arabidopsis</i>. Plant Journal, 2021, 105, 223-244.	5.7	43
104	Ultrafast Carotenoid Band Shifts:Â Experiment and Theoryâ€. Journal of Physical Chemistry B, 2004, 108, 10398-10403.	2.6	42
105	Functional Assignments for the Carboxyl-Terminal Domains of the Ferrochelatase from <i>Synechocystis</i> PCC 6803: The CAB Domain Plays a Regulatory Role, and Region II Is Essential for Catalysis Â. Plant Physiology, 2011, 155, 1735-1747.	4.8	41
106	Progress and challenges in engineering cyanobacteria as chassis for lightâ€driven biotechnology. Microbial Biotechnology, 2020, 13, 363-367.	4.2	41
107	Rhodospirillum rubrum Possesses a Variant of the bchP Gene, Encoding Geranylgeranyl-Bacteriopheophytin Reductase. Journal of Bacteriology, 2002, 184, 1578-1586.	2.2	40
108	Functional assembly of the foreign carotenoid lycopene into the photosynthetic apparatus of Rhodobacter sphaeroides, achieved by replacement of the native 3-step phytoene desaturase with its 4-step counterpart from Erwinia herbicola. Molecular Microbiology, 2002, 44, 233-244.	2.5	40

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109	Augmenting light coverage for photosynthesis through YFP-enhanced charge separation at the Rhodobacter sphaeroides reaction centre. Nature Communications, 2017, 8, 13972.	12.8	40
110	Complete enzyme set for chlorophyll biosynthesis in <i>Escherichia coli</i>. Science Advances, 2018, 4, eaaq1407.	10.3	40
111	The C-Terminal Extension of Ferrochelatase Is Critical for Enzyme Activity and for Functioning of the Tetrapyrrole Pathway in <i>Synechocystis</i> Strain PCC 6803. Journal of Bacteriology, 2008, 190, 2086-2095.	2.2	39
112	Physical Mapping of bchG, orf427, andorf177 in the Photosynthesis Gene Cluster ofRhodobacter sphaeroides: Functional Assignment of the Bacteriochlorophyll Synthetase Gene. Journal of Bacteriology, 2000, 182, 3175-3182.	2.2	38
113	Three classes of oxygen-dependent cyclase involved in chlorophyll and bacteriochlorophyll biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6280-6285.	7.1	38
114	Structures of <i>Rhodopseudomonas palustris</i> RC-LH1 complexes with open or closed quinone channels. Science Advances, 2021, 7, .	10.3	38
115	Cryo-EM Structure of the <i>Rhodobacter sphaeroides</i> Light-HarvestingÂ2 Complex at 2.1 Ã…. Biochemistry, 2021, 60, 3302-3314.	2.5	38
116	Integration of multiple chromophores with native photosynthetic antennas to enhance solar energy capture and delivery. Chemical Science, 2013, 4, 3924.	7.4	37
117	Atomic detail visualization of photosynthetic membranes with GPU-accelerated ray tracing. Parallel Computing, 2016, 55, 17-27.	2.1	37
118	Genetic analysis of the bchC and bchA genes of Rhodobacter sphaeroides. Molecular Genetics and Genomics, 1993, 236-236, 227-234.	2.4	36
119	Engineering of B800 bacteriochlorophyll binding site specificity in the Rhodobacter sphaeroides LH2 antenna. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 209-223.	1.0	36
120	Engineered biosynthesis of bacteriochlorophyll b in Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1611-1616.	1.0	35
121	Current understanding of the function of magnesium chelatase. Biochemical Society Transactions, 2002, 30, 643-645.	3.4	34
122	Purification and kinetic characterization of the magnesium protoporphyrin IX methyltransferase from Synechocystis PCC6803. Biochemical Journal, 2003, 371, 351-360.	3.7	34
123	The solution structure of the PufX polypeptide fromRhodobacter sphaeroides. FEBS Letters, 2006, 580, 6967-6971.	2.8	34
124	Experimental evidence that the membrane-spanning helix of PufX adopts a bent conformation that facilitates dimerisation of the Rhodobacter sphaeroides RCâ€"LH1 complex through N-terminal interactions. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 95-107.	1.0	33
125	Biosynthesis of Chlorophyll <i>a</i> in a Purple Bacterial Phototroph and Assembly into a Plant Chlorophyllâ€"Protein Complex. ACS Synthetic Biology, 2016, 5, 948-954.	3.8	33
126	Cryo-EM structure of the monomeric <i>Rhodobacter sphaeroides</i> RCâ€"LH1 core complex at 2.5â€…Ã…. Biochemical Journal, 2021, 478, 3775-3790.	3.7	33

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127	ATPase activity associated with the magnesium-protoporphyrin IX chelatase enzyme of Synechocystis PCC6803: evidence for ATP hydrolysis during Mg2+ insertion, and the MgATP-dependent interaction of the ChlI and ChlD subunits. Biochemical Journal, 1999, 339 (Pt 1), 127-34.	3.7	33
128	Chromosome-free bacterial cells are safe and programmable platforms for synthetic biology. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6752-6761.	7.1	32
129	Identification of an 8-vinyl reductase involved in bacteriochlorophyll biosynthesis in <i>Rhodobacter sphaeroides</i> and evidence for the existence of a third distinct class of the enzyme. Biochemical Journal, 2013, 450, 397-405.	3.7	30
130	Construction of a physical map of the 45 kb photosynthetic gene cluster of Rhodobacter sphaeroides. Archives of Microbiology, 1989, 151, 454-458.	2.2	29
131	PucC and LhaA direct efficient assembly of the lightâ€harvesting complexes in <i>Rhodobacter sphaeroides</i>. Molecular Microbiology, 2016, 99, 307-327.	2.5	29
132	Probing the local lipid environment of the cytochrome bc1 and Synechocystis sp. PCC 6803 cytochrome b6f complexes with styrene maleic acid. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 215-225.	1.0	29
133	Carotenoids are essential for normal levels of dimerisation of the RCâ€“LH1â€“PufX core complex of Rhodobacter sphaeroides: Characterisation of R-26 as a crtB (phytoene synthase) mutant. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1056-1063.	1.0	28
134	Porphyrin Binding to Gun4 Protein, Facilitated by a Flexible Loop, Controls Metabolite Flow through the Chlorophyll Biosynthetic Pathway. Journal of Biological Chemistry, 2015, 290, 28477-28488.	3.4	28
135	Transient kinetics of the reaction catalysed by magnesium protoporphyrin IX methyltransferase. Biochemical Journal, 2004, 382, 1009-1013.	3.7	27
136	Directed assembly of functional light harvesting antenna complexes onto chemically patterned surfaces. Nanotechnology, 2008, 19, 025101.	2.6	27
137	Monomeric RCâ€“LH1 core complexes retard LH2 assembly and intracytoplasmic membrane formation in PufX-minus mutants of Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1044-1055.	1.0	27
138	The active site of magnesium chelatase. Nature Plants, 2020, 6, 1491-1502.	9.3	27
139	Fabrication of microstructured binary polymer brush â€œcorralsâ€•with integral pH sensing for studies of proton transport in model membrane systems. Chemical Science, 2018, 9, 2238-2251.	7.4	26
140	The 2.4 Ã… cryo-EM structure of a heptameric light-harvesting 2 complex reveals two carotenoid energy transfer pathways. Science Advances, 2021, 7, .	10.3	26
141	Cryo-EM structure of the dimeric <i>Rhodobacter sphaeroides</i> RC-LH1 core complex at 2.9â€…Ã…: the structural basis for dimerisation. Biochemical Journal, 2021, 478, 3923-3937.	3.7	26
142	Direct Measurement of Metal-Ion Chelation in the Active Site of the AAA+ ATPase Magnesium Chelatase. Biochemistry, 2007, 46, 12788-12794.	2.5	25
143	Photocatalytic Nanolithography of Self-Assembled Monolayers and Proteins. ACS Nano, 2013, 7, 7610-7618.	14.6	25
144	Synthesis of Chlorophyll-Binding Proteins in a Fully Segregated Î”ycf54 Strain of the Cyanobacterium Synechocystis PCC 6803. Frontiers in Plant Science, 2016, 7, 292.	3.6	25

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145	A photosynthetic antenna complex foregoes unity carotenoid-to-bacteriochlorophyll energy transfer efficiency to ensure photoprotection. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6502-6508.	7.1	25
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