Richard J Cogdell

List of Publications by Citations

169 papers	8,048 citations	46 h-index	86 g-index
178 ext. papers	8,819 ext. citations	5.7 avg, IF	6.32 L-index

#	Paper	IF	Citations
169	Carotenoids in photosynthesis. *Photochemistry and Photobiology*, **1996**, 63, 257-264	3.6	734
168	Crystal structure of the RC-LH1 core complex from Rhodopseudomonas palustris. *Science*, **2003**, 302, 1969-72	33.3	561
167	The architecture and function of the light-harvesting apparatus of purple bacteria: from single molecules to in vivo membranes. *Quarterly Reviews of Biophysics*, **2006**, 39, 227-324	7	541
166	The structure and thermal motion of the B800-850 LH2 complex from Rps.acidophila at 2.0A resolution and 100K: new structural features and functionally relevant motions. *Journal of Molecular Biology*, **2003**, 326, 1523-38	6.5	420
165	Structure-Based Calculations of the Optical Spectra of the LH2 Bacteriochlorophyll-Protein Complex from Rhodopseudomonas acidophila. *Photochemistry and Photobiology*, **1996**, 64, 564-576	3.6	288
164	Pigment-pigment interactions and energy transfer in the antenna complex of the photosynthetic bacterium Rhodopseudomonas acidophila. *Structure*, **1996**, 4, 449-62	5.2	242
163	Quantum coherent energy transfer over varying pathways in single light-harvesting complexes. *Science*, **2013**, 340, 1448-51	33.3	240
162	Two-dimensional electronic spectroscopy of the B800-B820 light-harvesting complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12672-7	11.5	181
161	Nature does not rely on long-lived electronic quantum coherence for photosynthetic energy transfer. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 8493-8498	11.5	175
160	ABSORPTION SPECTRAL SHIFTS OF CAROTENOIDS RELATED TO MEDIUM POLARIZABILITY. *Photochemistry and Photobiology*, **1991**, 54, 353-360	3.6	170
159	Quantum biology revisited. *Science Advances*, **2020**, 6, eaaz4888	14.3	133
158	Absorption and CD spectroscopy and modeling of various LH2 complexes from purple bacteria. *Biophysical Journal*, **2002**, 82, 2184-97	2.9	111
157	Carotenoids and Photosynthesis. *Sub-Cellular Biochemistry*, **2016**, 79, 111-39	5.5	107
156	CIRCULAR DICHROISM OF LIGHT-HARVESTING COMPLEXES FROM PURPLE PHOTOSYNTHETIC BACTERIA*. *Photochemistry and Photobiology*, **1985**, 42, 669-678	3.6	105
155	Efficient energy transfer from the carotenoid S(2) state in a photosynthetic light-harvesting complex. *Biophysical Journal*, **2001**, 80, 923-30	2.9	101
154	Energy Transfer and Exciton Annihilation in the B800-850 Antenna Complex of the Photosynthetic Purple Bacterium Rhodopseudomonas acidophila (Strain 10050). A Femtosecond Transient Absorption Study. *Journal of Physical Chemistry B*, **1997**, 101, 1087-1095	3.4	100
153	Strong antenna-enhanced fluorescence of a single light-harvesting complex shows photon antibunching. *Nature Communications*, **2014**, 5, 4236	17.4	97

152	How carotenoids protect bacterial photosynthesis. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2000**, 355, 1345-9	5.8	94
151	Fluorescence spectral fluctuations of single LH2 complexes from Rhodopseudomonas acidophila strain 10050. *Biochemistry*, **2004**, 43, 4431-8	3.2	93
150	Rings, ellipses and horseshoes: how purple bacteria harvest solar energy. *Photosynthesis Research*, **2004**, 81, 207-14	3.7	86
149	Structural studies of wild-type and mutant reaction centers from an antenna-deficient strain of Rhodobacter sphaeroides: monitoring the optical properties of the complex from bacterial cell to crystal. *Biochemistry*, **1998**, 37, 4740-50	3.2	79
148	Fluorescence spectroscopy of conformational changes of single LH2 complexes. *Biophysical Journal* , **2005**, 88, 422-35	2.9	78
147	Reviewers in 2020. *Journal of the Royal Society Interface*, **2021**, 18,	4.1	78
146	The effect of growth conditions on the light-harvesting apparatus in Rhodopseudomonas acidophila. *Photosynthesis Research*, **1993**, 38, 159-67	3.7	77
145	Carotenoids and bacterial photosynthesis: The story so far. *Photosynthesis Research*, **2001**, 70, 249-56	3.7	74
144	Ubiquinone binding, ubiquinone exclusion, and detailed cofactor conformation in a mutant bacterial reaction center. *Biochemistry*, **2000**, 39, 15032-43	3.2	70
143	Dark States in the Light-Harvesting complex 2 Revealed by Two-dimensional Electronic Spectroscopy. *Scientific Reports*, **2016**, 6, 20834	4.9	62
142	Single-molecule spectroscopy reveals that individual low-light LH2 complexes from Rhodopseudomonas palustris 2.1.6. have a heterogeneous polypeptide composition. *Biophysical Journal*, **2009**, 97, 1491-500	2.9	62
141	Single-molecule spectroscopy reveals photosynthetic LH2 complexes switch between emissive states. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 10899-903	11.5	61
140	Crystal structure of reduced and of oxidized peroxiredoxin IV enzyme reveals a stable oxidized decamer and a non-disulfide-bonded intermediate in the catalytic cycle. *Journal of Biological Chemistry*, **2011**, 286, 42257-42266	5.4	61
139	Self-assembled monolayer of light-harvesting core complexes from photosynthetic bacteria on a gold electrode modified with alkanethiols. *Biomacromolecules*, **2007**, 8, 2457-63	6.9	61
138	The structural basis of light-harvesting in purple bacteria. *FEBS Letters*, **2003**, 555, 35-9	3.8	61
137	Pigment-protein complexes of purple photosynthetic bacteria: an overview. *Journal of Cellular Biochemistry*, **1983**, 23, 159-69	4.7	61
136	The structure and function of the LH2 (B800-850) complex from the purple photosynthetic bacterium Rhodopseudomonas acidophila strain 10050. *Progress in Biophysics and Molecular Biology* , **1997**, 68, 1-27	4.7	60
135	SOLVENT EFFECT ON SPHEROIDENE IN NONPOLAR AND POLAR SOLUTIONS AND THE ENVIRONMENT OF SPHEROIDENE IN THE LIGHT-HARVESTING COMPLEXES OF Rhodobacter sphaeroides 2.4.1 AS REVEALED BY THE ENERGY OF THE 1Ag⁻ → 1Bu+ ABSORPTION AND THE FREQUENCIES OF THE VIBRONICALLY COUPLED C=C STRETCHING RAMAN LINES IN THE 1Ag⁻ AND 1Bu+ STATES. *Photochemistry and Photobiology*, **1994**, 59, 116-124	3.6	60

134	Spatially-resolved fluorescence-detected two-dimensional electronic spectroscopy probes varying excitonic structure in photosynthetic bacteria. *Nature Communications*, **2018**, 9, 4219	17.4	59
133	The structure and function of bacterial light-harvesting complexes. *Molecular Membrane Biology*, **2004**, 21, 183-91	3.4	58
132	Unified explanation for linear and nonlinear optical responses in β-carotene: A sub-20-fs degenerate four-wave mixing spectroscopic study. *Physical Review B*, **2007**, 75,	3.3	53
131	A further characterisation of the B890 light-harvesting pigment–protein complex from Rhodospirillum rubrum strain S1. *FEBS Letters*, **1982**, 150, 151-154	3.8	53
130	A comparison of the primary structures of the two B800-850-apoproteins from wild-type Rhodopseudomonas sphaeroides strain 2.4.1 and a carotenoidless mutant strain R26.1. *FEBS Letters*, **1984**, 175, 231-237	3.8	52
129	An Ab Initio Description of the Excitonic Properties of LH2 and Their Temperature Dependence. *Journal of Physical Chemistry B*, **2016**, 120, 11348-11359	3.4	50
128	Transient EPR and Absorption Studies of Carotenoid Triplet Formation in Purple Bacterial Antenna Complexes. *Journal of Physical Chemistry B*, **2001**, 105, 5525-5535	3.4	49
127	Femtosecond Energy-Transfer Dynamics between Bacteriochlorophylls in the B800–820 Antenna Complex of the Photosynthetic Purple Bacterium Rhodopseudomonas acidophila (Strain 7750). *Journal of Physical Chemistry B*, **1998**, 102, 881-887	3.4	49
126	Isolation and characterisation of the different B800–850 light-harvesting complexes from low- and high-light grown cells of Rhodopseudomonas palustris, strain 2.1.6. *Biochimica Et Biophysica Acta - Bioenergetics*, **1990**, 1016, 71-76	4.6	49
125	Natural and artificial light-harvesting systems utilizing the functions of carotenoids. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2015**, 25, 46-70	16.4	48
124	Femtosecond dynamics of carotenoid-to-bacteriochlorophyll a energy transfer in the light-harvesting antenna complexes from the purple bacterium Chromatium purpuratum. *Chemical Physics*, **1996**, 210, 195-217	2.3	48
123	Lectin-like bacteriocins from Pseudomonas spp. utilise D-rhamnose containing lipopolysaccharide as a cellular receptor. *PLoS Pathogens*, **2014**, 10, e1003898	7.6	46
122	Spectroscopic studies of two spectral variants of light-harvesting complex 2 (LH2) from the photosynthetic purple sulfur bacterium Allochromatium vinosum. *Biochimica Et Biophysica Acta - Bioenergetics*, **2012**, 1817, 1576-87	4.6	44
121	Refinement of the x-ray structure of the RC LH1 core complex from Rhodopseudomonas palustris by single-molecule spectroscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 20280-4	11.5	42
120	Vibronic coupling explains the ultrafast carotenoid-to-bacteriochlorophyll energy transfer in natural and artificial light harvesters. *Journal of Chemical Physics*, **2015**, 142, 212434	3.9	41
119	Exciton self trapping in photosynthetic pigment-protein complexes studied by single-molecule spectroscopy. *Journal of Physical Chemistry B*, **2012**, 116, 11017-23	3.4	41
118	Carotenoid-bacteriochlorophyll energy transfer in LH2 complexes studied with 10-fs time resolution. *Biophysical Journal*, **2006**, 90, 2486-97	2.9	40
117	The polypeptide composition of the B850 light-harvesting pigment–protein complex from Rhodopseudomonas sphaeroides, R26.1. *FEBS Letters*, **1981**, 132, 81-84	3.8	40

116	The role of charge-transfer states in the spectral tuning of antenna complexes of purple bacteria. *Photosynthesis Research*, **2018**, 137, 215-226	3.7	39
115	The Light-Harvesting System of Purple Bacteria. *Advances in Photosynthesis and Respiration*, **2003**, 169-194	1.7	39
114	X-ray crystal structure of the YM210W mutant reaction centre from Rhodobacter sphaeroides. *FEBS Letters*, **2000**, 467, 285-90	3.8	38
113	Understanding/unravelling carotenoid excited singlet states. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	36
112	Single-molecule spectroscopic characterization of light-harvesting 2 complexes reconstituted into model membranes. *Biophysical Journal*, **2007**, 93, 183-91	2.9	36
111	Artificial photosynthesis solar fuels: current status and future prospects. *Biofuels*, **2010**, 1, 861-876	2	35
110	The location of the carotenoid in the B800--850 light-harvesting pigment--protein complex from Rhodopseudomonas capsulata. *FEBS Letters*, **1980**, 111, 391-4	3.8	35
109	A Highly Conserved Bacterial D-Serine Uptake System Links Host Metabolism and Virulence. *PLoS Pathogens*, **2016**, 12, e1005359	7.6	35
108	Length, time, and energy scales of photosystems. *Advances in Protein Chemistry*, **2003**, 63, 71-109		34
107	Selective assembly of photosynthetic antenna proteins into a domain-structured lipid bilayer for the construction of artificial photosynthetic antenna systems: structural analysis of the assembly using surface plasmon resonance and atomic force microscopy. *Langmuir*, **2011**, 27, 1092-9	4	32
106	Use of single-molecule spectroscopy to tackle fundamental problems in biochemistry: using studies on purple bacterial antenna complexes as an example. *Biochemical Journal*, **2009**, 422, 193-205	3.8	32
105	Peripheral Complexes of Purple Bacteria. *Advances in Photosynthesis and Respiration*, **2009**, 135-153	1.7	31
104	The effect of chemical oxidation on the fluorescence of the LH1 (B880) complex from the purple bacterium Rhodobium marinum. *FEBS Letters*, **1998**, 432, 27-30	3.8	31
103	The structures of S0 spheroidene in the light-harvesting (LH2) complex and S0 and T1 spheroidene in the reaction center of Rhodobacter sphaeroides 2.4.1 as revealed by Raman spectroscopy. *Biospectroscopy*, **1998**, 2, 59-69		31
102	Energy transfer from carotenoid to bacteriochlorophyll a in the B800 820 antenna complexes from Rhodopseudomonas acidophila strain 7050. *FEBS Letters*, **1988**, 235, 169-172	3.8	31
101	Low light adaptation: energy transfer processes in different types of light harvesting complexes from Rhodopseudomonas palustris. *Biophysical Journal*, **2009**, 97, 3019-28	2.9	30
100	Energy dissipation in the ground-state vibrational manifolds of carotene homologues: A sub-20-fs time-resolved transient grating spectroscopic study. *Physical Review B*, **2008**, 77,	3.3	29
99	The host metabolite D-serine contributes to bacterial niche specificity through gene selection. *ISME Journal*, **2015**, 9, 1039-51	11.9	28

98	Characterisation of the LH2 spectral variants produced by the photosynthetic purple sulphur bacterium Allochromatium vinosum. *Biochimica Et Biophysica Acta - Bioenergetics*, **2014**, 1837, 1849-1860	4.6	27
97	The light intensity under which cells are grown controls the type of peripheral light-harvesting complexes that are assembled in a purple photosynthetic bacterium. *Biochemical Journal*, **2011**, 440, 51-61	3.8	27
96	Bacteriochlorin-protein interactions in native B800-B850, B800 deficient and B800-Bchla(p)-reconstituted complexes from Rhodopseudomonas acidophila, strain 10050. *FEBS Letters*, **1999**, 449, 269-72	3.8	27
95	Hijacking the Hijackers: Escherichia coli Pathogenicity Islands Redirect Helper Phage Packaging for Their Own Benefit. *Molecular Cell*, **2019**, 75, 1020-1030.e4	17.6	26
94	Isolation and characterisation of an unusual antenna complex from the marine purple sulphur photosynthetic bacterium Chromatium purpuratum BN5500. *Biochimica Et Biophysica Acta - Bioenergetics*, **1990**, 1019, 239-244	4.6	26
93	Reaction centre carotenoid band shifts. *FEBS Letters*, **1977**, 80, 190-4	3.8	26
92	Ultrafast energy relaxation in single light-harvesting complexes. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2934-9	11.5	25
91	Before F□rster. Initial excitation in photosynthetic light harvesting. *Chemical Science*, **2019**, 10, 7923-7928	9.4	24
90	The structural basis of non-photochemical quenching is revealed?. *Trends in Plant Science*, **2006**, 11, 59-60	13.1	24
89	Electroabsorption spectroscopy of □carotene homologs: Anomalous enhancement of □*Physical Review B*, **2005**, 71,	3.3	24
88	An examination of how structural changes can affect the rate of electron transfer in a mutated bacterial photoreaction centre. *Biochemical Journal*, **2000**, 351, 567-578	3.8	24
87	Preparation, Purification, and Crystallization of Purple Bacteria Antenna Complexes **1993**, 23-42		24
86	Linear-Dichroism Measurements on the LH2 Antenna Complex of Rhodopseudomonas Acidophila Strain 10050 Show that the Transition Dipole Moment of the Carotenoid Rhodopin Glucoside Is Not Collinear with the Long Molecular Axis. *Journal of Physical Chemistry B*, **2003**, 107, 655-658	3.4	23
85	Structure of the bacterial plant-ferredoxin receptor FusA. *Nature Communications*, **2016**, 7, 13308	17.4	22
84	Renewables need a grand-challenge strategy. *Nature*, **2016**, 538, 27-29	50.4	22
83	Structures of the Ultra-High-Affinity Protein-Protein Complexes of Pyocins S2 and AP41 and Their Cognate Immunity Proteins from Pseudomonas aeruginosa. *Journal of Molecular Biology*, **2015**, 427, 2852-66	6.5	21
82	Comparison of transient grating signals from spheroidene in an organic solvent and in pigment-protein complexes from Rhodobacter sphaeroides 2.4.1. *Physical Review B*, **2010**, 81,	3.3	19
81	Carotenoid Nuclear Reorganization and Interplay of Bright and Dark Excited States. *Journal of Physical Chemistry B*, **2019**, 123, 8628-8643	3.4	18

80	Antenna organisation in the purple bacterium Rhodopseudomonas acidophila studied by fluorescence induction. *Photosynthesis Research*, **1997**, 52, 157-165	3.7	18
79	Primary reactions in photosynthetic reaction centers of Rhodobacter sphaeroides Time constants of the initial electron transfer. *Chemical Physics Letters*, **2014**, 601, 103-109	2.5	17
78	Excitation-energy dependence of transient grating spectroscopy in carotene. *Physical Review B*, **2009**, 80,	3.3	17
77	Probing the binding sites of exchanged chlorophyll a in LH2 by Raman and site-selection fluorescence spectroscopies. *FEBS Letters*, **2001**, 491, 143-7	3.8	17
76	Single-molecule spectroscopy unmasks the lowest exciton state of the B850 assembly in LH2 from Rps. acidophila. *Biophysical Journal*, **2014**, 106, 2008-16	2.9	16
75	Crystallographic studies of mutant reaction centres from Rhodobacter sphaeroides. *Photosynthesis Research*, **1998**, 55, 133-140	3.7	16
74	Pushing the Photon Limit: Nanoantennas Increase Maximal Photon Stream and Total Photon Number. *Journal of Physical Chemistry Letters*, **2016**, 7, 1604-9	6.4	15
73	Simulating Fluorescence-Detected Two-Dimensional Electronic Spectroscopy of Multichromophoric Systems. *Journal of Physical Chemistry B*, **2019**, 123, 394-406	3.4	15
72	Conformational Memory of a Protein Revealed by Single-Molecule Spectroscopy. *Journal of Physical Chemistry B*, **2015**, 119, 13964-70	3.4	14
71	Learning from photosynthesis: how to use solar energy to make fuels. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 3819-26	3	14
70	Vibronic coupling in the excited-states of carotenoids. *Physical Chemistry Chemical Physics*, **2016**, 18, 11443-53	3.6	14
69	Silver island film substrates for ultrasensitive fluorescence detection of (bio)molecules. *Photosynthesis Research*, **2016**, 127, 103-8	3.7	13
68	Fluorescence-excitation and emission spectra from LH2 antenna complexes of Rhodopseudomonas acidophila as a function of the sample preparation conditions. *Journal of Physical Chemistry B*, **2013**, 117, 12020-9	3.4	13
67	The effect of changes in light intensity and temperature on the peripheral antenna of Rhodopseudomonas acidophila. *Biochemical Society Transactions*, **1993**, 21, 6S	5.1	13
66	Photocurrent Generation by Photosynthetic Purple Bacterial Reaction Centers Interfaced with a Porous Antimony-Doped Tin Oxide (ATO) Electrode. *ACS Applied Materials & Interfaces*, **2016**, 8, 25104-10	9.5	12
65	Direct visualization of exciton reequilibration in the LH1 and LH2 complexes of Rhodobacter sphaeroides by multipulse spectroscopy. *Biophysical Journal*, **2011**, 100, 2226-33	2.9	12
64	Quieting a noisy antenna reproduces photosynthetic light-harvesting spectra. *Science*, **2020**, 368, 1490-1495	3.3	11
63	Origin of the Two Bands in the B800 Ring and Their Involvement in the Energy Transfer Network of Allochromatium vinosum. *Journal of Physical Chemistry Letters*, **2018**, 9, 1340-1345	6.4	11

62	Characterisation of a pucBA deletion mutant from Rhodopseudomonas palustris lacking all but the pucBA genes. *Photosynthesis Research*, **2018**, 135, 9-21	3.7	11
61	Robust light harvesting by a noisy antenna. *Physical Chemistry Chemical Physics*, **2018**, 20, 4360-4372	3.6	10
60	The use and misuse of photosynthesis in the quest for novel methods to harness solar energy to make fuel. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2013**, 371, 20110603	3	10
59	Multi-Level, Multi Time-Scale Fluorescence Intermittency of Photosynthetic LH2 Complexes: A Precursor of Non-Photochemical Quenching?. *Journal of Physical Chemistry B*, **2015**, 119, 13958-63	3.4	9
58	Fluorescence-excitation and Emission Spectroscopy on Single FMO Complexes. *Scientific Reports*, **2016**, 6, 31875	4.9	9
57	Statistical considerations on the formation of circular photosynthetic light-harvesting complexes from Rhodopseudomonas palustris. *Photosynthesis Research*, **2014**, 121, 49-60	3.7	9
56	Structure of protease-cleaved Escherichia coli α2-macroglobulin reveals a putative mechanism of conformational activation for protease entrapment. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 1478-86		9
55	Structures and binding specificity of galactose- and mannose-binding lectins from champedak: differences from jackfruit lectins. *Acta Crystallographica Section F, Structural Biology Communications*, **2014**, 70, 709-16	1.1	9
54	Purple Bacterial Light-harvesting Complexes: From Dreams to Structures. *Photosynthesis Research*, **2004**, 80, 173-9	3.7	9
53	Effects of mutagenesis on the detailed structure of spheroidenone in the Rhodobacter sphaeroides reaction centre examined by resonance Raman spectroscopy. *Photosynthesis Research*, **1999**, 59, 223-230	3.7	9
52	The 2.4 Å cryo-EM structure of a heptameric light-harvesting 2 complex reveals two carotenoid energy transfer pathways. *Science Advances*, **2021**, 7,	14.3	9
51	An improved crystal structure of C-phycoerythrin from the marine cyanobacterium Phormidium sp. A09DM. *Photosynthesis Research*, **2018**, 135, 65-78	3.7	9
50	Conformational Complexity in the LH2 Antenna of the Purple Sulfur Bacterium Allochromatium vinosum Revealed by Hole-Burning Spectroscopy. *Journal of Physical Chemistry A*, **2017**, 121, 4435-4446	2.8	8
49	A comparative look at structural variation among RC-LH1 PCore complexes present in anoxygenic phototrophic bacteria. *Photosynthesis Research*, **2020**, 145, 83-96	3.7	8
48	Site, trigger, quenching mechanism and recovery of non-photochemical quenching in cyanobacteria: recent updates. *Photosynthesis Research*, **2018**, 137, 171-180	3.7	8
47	Assessing density functional theory in real-time and real-space as a tool for studying bacteriochlorophylls and the light-harvesting complex 2. *Journal of Chemical Physics*, **2019**, 151, 134114	3.9	8
46	The use of non-denaturing Deriphat-polyacrylamide gel electrophoresis to fractionate pigment-protein complexes of purple bacteria. *Photosynthesis Research*, **1991**, 30, 139-43	3.7	8
45	The Evolution of the Purple Photosynthetic Bacterial Light-Harvesting System. *Advances in Botanical Research*, **2013**, 66, 205-226	2.2	7

44	Generation of coherently coupled vibronic oscillations in carotenoids. *Physical Review B*, **2012**, 85,	3.3	7
43	Localization of the reaction-centre subunits in the intracytoplasmic membranes of Rhodopseudomonas sphaeroides and Rhodopseudomonas capsulata [proceedings]. *Biochemical Society Transactions*, **1980**, 8, 184-5	5.1	7
42	Activated OCP unlocks nonphotochemical quenching in cyanobacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 12547-8	11.5	6
41	Solar fuels and inspiration from photosynthesis. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 353, 645-653	4.7	6
40	DNA-directed spatial assembly of photosynthetic light-harvesting proteins. *Organic and Biomolecular Chemistry*, **2016**, 14, 1359-62	3.9	6
39	Fluorescence enhancement of photosynthetic complexes separated from nanoparticles by a reduced graphene oxide layer. *Applied Physics Letters*, **2014**, 104, 093103	3.4	6
38	Structures and functions of carotenoids bound to reaction centers from purple photosynthetic bacteria. *Pure and Applied Chemistry*, **2006**, 78, 1505-1518	2.1	6
37	Effect of inhomogeneous band broadening on the nonlinear optical properties of hydrazones. *Physical Review B*, **2004**, 69,	3.3	6
36	On Light-Induced Photoconversion of B800 Bacteriochlorophylls in the LH2 Antenna of the Purple Sulfur Bacterium Allochromatium vinosum. *Journal of Physical Chemistry B*, **2017**, 121, 9999-10006	3.4	5
35	Photocrosslinking between nucleic acids and proteins: general discussion. *Faraday Discussions*, **2018**, 207, 283-306	3.6	5
34	Spectral heterogeneity and carotenoid-to-bacteriochlorophyll energy transfer in LH2 light-harvesting complexes from Allochromatium vinosum. *Photosynthesis Research*, **2016**, 127, 171-87	3.7	5
33	Energy transfer in purple bacterial photosynthetic units from cells grown in various light intensities. *Photosynthesis Research*, **2018**, 137, 389-402	3.7	5
32	Introduction: a selection of work from the recent Satellite Meeting on Photosynthetic Light Harvesting. *Photosynthesis Research*, **2008**, 95, 117	3.7	5
31	The subunit structure of the B800-850 light-harvesting pigment protein complex from Rhodopseudomonas sphaeroides strain 2.4.1 [proceedings]. *Biochemical Society Transactions*, **1979**, 7, 184-7	5.1	5
30	Contribution of low-temperature single-molecule techniques to structural issues of pigment-protein complexes from photosynthetic purple bacteria. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	4
29	Origin of bimodal fluorescence enhancement factors of Chlorobaculum tepidum reaction centers on silver island films. *FEBS Letters*, **2016**, 590, 2558-65	3.8	4
28	Recombinant expression, purification, crystallization and preliminary X-ray diffraction analysis of the C-terminal DUF490(963-1138) domain of TamB from Escherichia coli. *Acta Crystallographica Section F, Structural Biology Communications*, **2014**, 70, 1272-5	1.1	4
27	Multichannel Flash Spectroscopy of the Reaction Centers of Wild-type and Mutant Rhodobacter sphaeroides: BacteriochlorophyllB-mediated Interaction Between the Carotenoid Triplet and the Special Pair *Photochemistry and Photobiology*, **2004**, 79, 68-75	3.6	4

26	Cloning and sequencing of the pucBA genes from two strains of Rubrivivax gelatinosus. *Photosynthesis Research*, **1999**, 62, 99-106	3.7	4
25	The localization of the light-harvesting complexes in the intracytoplasmic membranes of Rhodopseudomonas capsulata [proceedings]. *Biochemical Society Transactions*, **1980**, 8, 329	5.1	4
24	Intraband dynamics and exciton trapping in the LH2 complex of Rhodopseudomonas acidophila. *Journal of Chemical Physics*, **2021**, 154, 045102	3.9	4
23	Spectrally selective fluorescence imaging of Chlorobaculum tepidum reaction centers conjugated to chelator-modified silver nanowires. *Photosynthesis Research*, **2018**, 135, 329-336	3.7	4
22	Low-Frequency Vibronic Mixing Modulates the Excitation Energy Flow in Bacterial Light-Harvesting Complex II. *Journal of Physical Chemistry Letters*, **2021**, 12, 6292-6298	6.4	4
21	The Structure of Purple Bacterial Antenna Complexes325-340		3
20	Crystal structure of phycocyanin from heterocyst-forming filamentous cyanobacterium Nostoc sp. WR13. *International Journal of Biological Macromolecules*, **2019**, 135, 62-68	7.9	2
19	Crystallization and preliminary X-ray diffraction analysis of the peripheral light-harvesting complex LH2 from Marichromatium purpuratum. *Acta Crystallographica Section F, Structural Biology Communications*, **2014**, 70, 808-13	1.1	2
18	Purple-bacterial light-harvesting complexes. *Biochemical Society Transactions*, **1986**, 14, 4-5	5.1	2
17	The structure of the bacterial photosynthetic unit. *Biochemical Society Transactions*, **1982**, 10, 334-5	5.1	2
16	Vibrational Modes Promoting Exciton Relaxation in the B850 Band of LH2.. *Journal of Physical Chemistry Letters*, **2022**, 1099-1106	6.4	2
15	Time-Domain Line-Shape Analysis from 2D Spectroscopy to Precisely Determine Hamiltonian Parameters for a Photosynthetic Complex. *Journal of Physical Chemistry B*, **2021**, 125, 2812-2820	3.4	2
14	Room-Temperature Excitation-Emission Spectra of Single LH2 Complexes Show Remarkably Little Variation. *Journal of Physical Chemistry Letters*, **2020**, 11, 2430-2435	6.4	1
13	Revisiting high-resolution crystal structure of Phormidium rubidum phycocyanin. *Photosynthesis Research*, **2020**, 144, 349-360	3.7	1
12	Overview of the work of the BBSRC's Membrane Protein Structure initiative. Foreword. *Molecular Membrane Biology*, **2008**, 25, 585-7	3.4	1
11	Crystallising the LH1-RC "core" complex of purple bacteria. *Biochemical Society Transactions*, **1998**, 26, S160	5.1	1
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9	Dihydrolipoamide dehydrogenase in plants: differences in the mitochondrial and chloroplastic forms. *Biochemical Society Transactions*, **1993**, 21, 38S	5.1	1

8	Photochemical reactions centre of photosynthetic bacteria. *Biochemical Society Transactions*, **1979**, 7, 1228-31	5.1	1
7	Photosynthesis | The Purple Photosynthetic Bacterial Light Harvesting System **2021**, 291-304		1
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