Robert E Blankenship

List of Publications by Year
in descending order

266 papers	21,385 citations	20817 60 h-index	10734 138 g-index
279 all docs	279 docs citations	279 times ranked	15041 citing authors

#	Article	IF	Citations
1	Evidence for wavelike energy transfer through quantum coherence in photosynthetic systems. Nature, 2007, 446, 782-786.	27.8	2,685
2	Comparing Photosynthetic and Photovoltaic Efficiencies and Recognizing the Potential for Improvement. Science, 2011, 332, 805-809.	12.6	1,369
3	Two-dimensional spectroscopy of electronic couplings in photosynthesis. Nature, 2005, 434, 625-628.	27.8	1,115
4	Long-lived quantum coherence in photosynthetic complexes at physiological temperature. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12766-12770.	7.1	886
5	Redesigning photosynthesis to sustainably meet global food and bioenergy demand. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8529-8536.	7.1	751
6	The Natural History of Nitrogen Fixation. Molecular Biology and Evolution, 2004, 21, 541-554.	8.9	698
7	Evolution of Photosynthesis. Annual Review of Plant Biology, 2011, 62, 515-548.	18.7	593
8	Origin and early evolution of photosynthesis. Photosynthesis Research, 1992, 33, 91-111.	2.9	469
9	Contribution of Aerobic Photoheterotrophic Bacteria to the Carbon Cycle in the Ocean. Science, 2001, 292, 2492-2495.	12.6	400
10	Expanding the solar spectrum used by photosynthesis. Trends in Plant Science, 2011, 16, 427-431.	8.8	356
11	The origin and evolution of oxygenic photosynthesis. Trends in Biochemical Sciences, 1998, 23, 94-97.	7.5	342
12	Spectral Signatures of Photosynthesis. I. Review of Earth Organisms. Astrobiology, 2007, 7, 222-251.	3.0	313
13	Phycobilisomes Supply Excitations to Both Photosystems in a Megacomplex in Cyanobacteria. Science, 2013, 342, 1104-1107.	12.6	299
14	An obligately photosynthetic bacterial anaerobe from a deep-sea hydrothermal vent. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9306-9310.	7.1	298
15	Early Evolution of Photosynthesis. Plant Physiology, 2010, 154, 434-438.	4.8	282
16	Whole-Genome Analysis of Photosynthetic Prokaryotes. Science, 2002, 298, 1616-1620.	12.6	278
17	The structural basis for the difference in absorbance spectra for the FMO antenna protein from various green sulfur bacteria. Photosynthesis Research, 2009, 100, 79-87.	2.9	273
18	Spectral Signatures of Photosynthesis. II. Coevolution with Other Stars And The Atmosphere on Extrasolar Worlds. Astrobiology, 2007, 7, 252-274.	3.0	253

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19	Chlorosome antenna complexes from green photosynthetic bacteria. Photosynthesis Research, 2013, 116, 315-331.	2.9	218
20	Niche adaptation and genome expansion in the chlorophyll <i>d</i> -producing cyanobacterium <i>Acaryochloris marina</i>. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2005-2010.	7.1	210
21	Crystal structure of the bacteriochlorophyll a protein from Chlorobium tepidum 1 1Edited by R. Huber. Journal of Molecular Biology, 1997, 271, 456-471.	4.2	196
22	A viewpoint: Why chlorophyll a?. Photosynthesis Research, 2009, 99, 85-98.	2.9	195
23	Membrane orientation of the FMO antenna protein from <i>Chlorobaculum tepidum</i> as determined by mass spectrometry-based footprinting. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6134-6139.	7.1	186
24	Radical-pair decay kinetics, triplet yields and delayed fluorescence from bacterial reaction centers. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 680, 44-59.	1.0	177
25	Antenna organization in green photosynthetic bacteria. 1. Oligomeric bacteriochlorophyll c as a model for the 740 nm absorbing bacteriochlorophyll c in Chloroflexus aurantiacus chlorosomes. Biochemistry, 1987, 26, 8644-8652.	2.5	175
26	Thinking About the Evolution of Photosynthesis. Photosynthesis Research, 2004, 80, 373-386.	2.9	172
27	Discovery of a free-living chlorophyll d-producing cyanobacterium with a hybrid proteobacterial/cyanobacterial small-subunit rRNA gene. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 850-855.	7.1	165
28	The Complete Genome Sequence of Roseobacter denitrificans Reveals a Mixotrophic Rather than Photosynthetic Metabolism. Journal of Bacteriology, 2007, 189, 683-690.	2.2	146
29	Native Electrospray and Electron-Capture Dissociation FTICR Mass Spectrometry for Top-Down Studies of Protein Assemblies. Analytical Chemistry, 2011, 83, 5598-5606.	6.5	141
30	Extinction coefficient for red-shifted chlorophylls: Chlorophyll d and chlorophyll f. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1292-1298.	1.0	124
31	Characterization of Chlorobium tepidum Chlorosomes: A Calculation of Bacteriochlorophyll c per Chlorosome and Oligomer Modeling. Biophysical Journal, 2003, 85, 2560-2565.	0.5	120
32	Isolation of a photoactive photosynthetic reaction center-core antenna complex from Heliobacillus mobilis. Biochemistry, 1989, 28, 9898-9904.	2.5	119
33	Conservation of Distantly Related Membrane Proteins: Photosynthetic Reaction Centers Share a Common Structural Core. Molecular Biology and Evolution, 2006, 23, 2001-2007.	8.9	118
34	Singlet and triplet excited state properties of natural chlorophylls and bacteriochlorophylls. Photosynthesis Research, 2010, 106, 227-238.	2.9	112
35	Antenna Complexes from Green Photosynthetic Bacteria. Advances in Photosynthesis and Respiration, 2003, , 195-217.	1.0	109
36	The Genome of <i>Heliobacterium modesticaldum</i> , a Phototrophic Representative of the <i>Firmicutes</i> Containing the Simplest Photosynthetic Apparatus. Journal of Bacteriology, 2008, 190, 4687-4696.	2.2	109

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37	The structure of the FMO protein from Chlorobium tepidum at 2.2 A resolution. Photosynthesis Research, 2003, 75, 49-55.	2.9	107
38	Native electrospray and electron-capture dissociation in FTICR mass spectrometry provide top-down sequencing of a protein component in an intact protein assembly. Journal of the American Society for Mass Spectrometry, 2010, 21, 1966-1968.	2.8	103
39	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.	2.5	99
40	Excitation energy flow in chlorosome antennas of green photosynthetic bacteria. The Journal of Physical Chemistry, 1989, 93, 7503-7509.	2.9	98
41	New Class of Bacterial Membrane Oxidoreductases. Biochemistry, 2005, 44, 10037-10045.	2.5	96
42	Light harvesting in phototrophic bacteria: structure and function. Biochemical Journal, 2017, 474, 2107-2131.	3.7	96
43	Native Mass Spectrometry Characterization of Intact Nanodisc Lipoprotein Complexes. Analytical Chemistry, 2012, 84, 8957-8960.	6.5	95
44	Coherent wavepackets in the Fennaâ€“Matthewsâ€“Olson complex are robust to excitonic-structure perturbations caused by mutagenesis. Nature Chemistry, 2018, 10, 177-183.	13.6	93
45	Molecular Mechanism of Photoactivation and Structural Location of the Cyanobacterial Orange Carotenoid Protein. Biochemistry, 2014, 53, 13-19.	2.5	92
46	Time-Resolved Fluorescence and Absorption Spectroscopy of Photosystem I. Biochemistry, 1994, 33, 3185-3192.	2.5	91
47	Complete genome sequence of the filamentous anoxygenic phototrophic bacterium Chloroflexus aurantiacus. BMC Genomics, 2011, 12, 334.	2.8	90
48	The nature of the photosystem II reaction centre in the chlorophyll d-containing prokaryote, Acaryochloris marina. Photochemical and Photobiological Sciences, 2005, 4, 1060.	2.9	85
49	Spectral expansion and antenna reduction can enhance photosynthesis for energy production. Current Opinion in Chemical Biology, 2013, 17, 457-461.	6.1	85
50	A unique photosynthetic reaction center from Heliobacterium chlorum. FEBS Letters, 1985, 182, 345-349.	2.8	83
51	Biosynthetic pathways, gene replacement and the antiquity of life. Geobiology, 2004, 2, 199-203.	2.4	81
52	Menaquinone is the sole quinone in the facultatively aerobic green photosynthetic bacterium Chloroflexus aurantiacus. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 723, 376-382.	1.0	76
53	Both Forward and Reverse TCA Cycles Operate in Green Sulfur Bacteria. Journal of Biological Chemistry, 2010, 285, 35848-35854.	3.4	75
54	Effects of oxidants and reductants on the efficiency of excitation transfer in green photosynthetic bacteria. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1015, 457-463.	1.0	71

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55	Excitation Dynamics and Heterogeneity of Energy Equilibration in the Core Antenna of Photosystem I from the CyanobacteriumSynechocystis sp.PCC 6803â€. Biochemistry, 2000, 39, 1489-1498.	2.5	71
56	Primary photochemistry in the facultative green photosynthetic bacterium Chloroflexus aurantiacus. Journal of Cellular Biochemistry, 1983, 22, 251-261.	2.6	69
57	Isolation and Characterization of the B798 Light-Harvesting Baseplate from the Chlorosomes ofChloroflexus aurantiacusâ€. Biochemistry, 2003, 42, 10246-10251.	2.5	69
58	Native Electrospray Mass Spectrometry Reveals the Nature and Stoichiometry of Pigments in the FMO Photosynthetic Antenna Protein. Biochemistry, 2011, 50, 3502-3511.	2.5	69
59	REDOX REGULATION OF ENERGY TRANSFER EFFICIENCY IN ANTENNAS OF GREEN PHOTOSYNTHETIC BACTERIA. Photochemistry and Photobiology, 1993, 57, 103-107.	2.5	65
60	Carbohydrate Metabolism and Carbon Fixation in Roseobacter denitrificans OCh114. PLoS ONE, 2009, 4, e7233.	2.5	65
61	Antenna organization in green photosynthetic bacteria. 2. Excitation transfer in detached and membrane-bound chlorosomes from Chloroflexus aurantiacus. Biochemistry, 1987, 26, 8652-8658.	2.5	64
62	Linker-Free Deposition and Adhesion of Photosystem I onto Nanostructured TiO₂ for Biohybrid Photoelectrochemical Cells. Langmuir, 2015, 31, 1675-1682.	3.5	62
63	Energy transfer kinetics in whole cells and isolated chlorosomes of green photosynthetic bacteria. Photosynthesis Research, 1990, 26, 39-48.	2.9	61
64	Structure of Chlorosomes from the Green Filamentous Bacterium <i>Chloroflexus aurantiacus</i>. Journal of Bacteriology, 2009, 191, 6701-6708.	2.2	60
65	Cryo-EM structure of the RC-LH core complex from an early branching photosynthetic prokaryote. Nature Communications, 2018, 9, 1568.	12.8	59
66	Robustness of electronic coherence in the Fennaâ€"Matthewsâ€"Olson complex to vibronic and structural modifications. Faraday Discussions, 2011, 150, 459.	3.2	58
67	Fast Photochemical Oxidation of Proteins Maps the Topology of Intrinsic Membrane Proteins: Light-Harvesting Complex 2 in a Nanodisc. Analytical Chemistry, 2016, 88, 8827-8834.	6.5	56
68	Dramatic Domain Rearrangements of the Cyanobacterial Orange Carotenoid Protein upon Photoactivation. Biochemistry, 2016, 55, 1003-1009.	2.5	56
69	Protein sequences and redox titrations indicate that the electron acceptors in reaction centers from heliobacteria are similar to Photosystem I. Photosynthesis Research, 1992, 32, 11-22.	2.9	55
70	Carotenoid-induced non-photochemical quenching in the cyanobacterial chlorophyll synthaseâ€"HliC/D complex. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1430-1439.	1.0	54
71	FÃ¶rster energy transfer in chlorosomes of green photosynthetic bacteria. Journal of Photochemistry and Photobiology B: Biology, 1992, 15, 171-179.	3.8	53
72	Redox effects on the bacteriochlorophyll Î±-containing Fenna-Matthews-Olson protein fromChlorobium tepidum. Photosynthesis Research, 1994, 41, 89-96.	2.9	53

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73	Delayed Fluorescence from Fe-S Type Photosynthetic Reaction Centers at Low Redox Potential. Biochemistry, 1994, 33, 3096-3105.	2.5	53
74	Spectroscopic Properties of the Main-Form and High-Salt Peridininâ˘'Chlorophyll a Proteins from Amphidinium carterae. Biochemistry, 2004, 43, 1478-1487.	2.5	53
75	Electrospray-assisted characterization and deposition of chlorosomes to fabricate a biomimetic light-harvesting device. Energy and Environmental Science, 2010, 3, 216-222.	30.8	52
76	Spectroscopic evidence for the presence of an iron-sulfur center similar to Fx of Photosystem I inHeliobacillus mobilis. Photosynthesis Research, 1994, 41, 115-123.	2.9	51
77	Electron transport in green photosynthetic bacteria. Photosynthesis Research, 1985, 6, 317-333.	2.9	50
78	Crystal structure of auracyanin, a â€œblueâ€•copper protein from the green thermophilic photosynthetic bacterium Chloroflexus aurantiacus11Edited by R Huber. Journal of Molecular Biology, 2001, 306, 47-67.	4.2	50
79	Metabolic Flux Analysis of the Mixotrophic Metabolisms in the Green Sulfur Bacterium Chlorobaculum tepidum. Journal of Biological Chemistry, 2010, 285, 39544-39550.	3.4	50
80	Native mass spectrometry of photosynthetic pigmentâ€"protein complexes. FEBS Letters, 2013, 587, 1012-1020.	2.8	50
81	Bacteriochlorophyll f: properties of chlorosomes containing the â€œforbidden chlorophyllâ€• Frontiers in Microbiology, 2012, 3, 298.	3.5	49
82	Photoprotective, excited-state quenching mechanisms in diverse photosynthetic organisms. Journal of Biological Chemistry, 2018, 293, 5018-5025.	3.4	49
83	Fluorescence lifetimes of dimers and higher oligomers of bacteriochlorophyll c from Chlorobium limicola. Photosynthesis Research, 1990, 25, 1-10.	2.9	48
84	Ultrafast Energy Transfer in Chlorosomes from the Green Photosynthetic BacteriumChloroflexus aurantiacus. The Journal of Physical Chemistry, 1996, 100, 3320-3322.	2.9	48
85	The evolutionary development of the protein complement of Photosystem 2. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 133-139.	1.0	48
86	Dynamics of Gene Duplication in the Genomes of Chlorophyll d-Producing Cyanobacteria: Implications for the Ecological Niche. Genome Biology and Evolution, 2011, 3, 601-613.	2.5	48
87	Mass spectrometry footprinting reveals the structural rearrangements of cyanobacterial orange carotenoid protein upon light activation. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1955-1963.	1.0	47
88	Picosecond measurements of the primary photochemical events in reaction centers isolated from the facultative green photosynthetic bacterium Chloroflexus aurantiacus. FEBS Letters, 1983, 158, 73-78.	2.8	46
89	Formation and decay of radical-pair state P+Iâ˘' in Chloroflexus aurantiacus reaction centers. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 850, 275-285.	1.0	46
90	Auracyanin, a blue copper protein from the green photosynthetic bacterium Chloroflexus aurantiacus. Biochemistry, 1988, 27, 7858-7863.	2.5	46

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91	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
92	Evidence for a cysteine-mediated mechanism of excitation energy regulation in a photosynthetic antenna complex. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4486-93.	7.1	45
93	Single-molecule trapping and spectroscopy reveals photophysical heterogeneity of phycobilisomes quenched by Orange Carotenoid Protein. Nature Communications, 2019, 10, 1172.	12.8	45
94	Spectroscopic properties of the Chlorophyll aâ€“Chlorophyll c 2â€“Peridinin-Protein-Complex (acpPC) from the coral symbiotic dinoflagellate Symbiodinium. Photosynthesis Research, 2014, 120, 125-139.	2.9	44
95	Structural studies show energy transfer within stabilized phycobilisomes independent of the mode of rodâ€“core assembly. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 385-395.	1.0	43
96	Specific Mutation Near the Primary Donor in Photosystem I from Chlamydomonas reinhardtii Alters the Trapping Time and Spectroscopic Properties of P700. Biochemistry, 1997, 36, 2898-2907.	2.5	42
97	The light intensity dependence of protochlorophyllide photoconversion and its significance to the catalytic mechanism of protochlorophyllide reductase. FEBS Letters, 1996, 398, 235-238.	2.8	41
98	Energy metabolism of Heliobacterium modesticaldum during phototrophic and chemotrophic growth. BMC Microbiology, 2010, 10, 150.	3.3	41
99	Triplet Excited State Energies and Phosphorescence Spectra of (Bacterio)Chlorophylls. Journal of Physical Chemistry B, 2014, 118, 7221-7232.	2.6	41
100	Isolation and characterization of the membrane-bound cytochrome c-554 from the thermophilic green photosynthetic bacterium Chloroflexus aurantiacus. Photosynthesis Research, 1990, 23, 29-38.	2.9	40
101	Excitation delocalization in the bacteriochlorophyllcantenna of the green bacteriumChloroflexus aurantiacusas revealed by ultrafast pump-probe spectroscopy. FEBS Letters, 1998, 430, 323-326.	2.8	37
102	Structural Analysis of Alternative Complex III in the Photosynthetic Electron Transfer Chain of <i>Chloroflexus aurantiacus</i>. Biochemistry, 2010, 49, 6670-6679.	2.5	37
103	Alternative Complex III from phototrophic bacteria and its electron acceptor auracyanin. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 1383-1391.	1.0	37
104	Secondary Electron Transfer Processes in Membranes of Heliobacillus mobilis. Biochemistry, 1995, 34, 12761-12767.	2.5	36
105	Enzymatic activity of the alternative complex III as a menaquinol:auracyanin oxidoreductase in the electron transfer chain of <i>Chloroflexus aurantiacus</i>. FEBS Letters, 2009, 583, 3275-3279.	2.8	36
106	Directed assembly of the thylakoid membrane on nanostructured TiO₂for a photo-electrochemical cell. Nanoscale, 2016, 8, 1868-1872.	5.6	35
107	Far-red light acclimation in diverse oxygenic photosynthetic organisms. Photosynthesis Research, 2019, 142, 349-359.	2.9	35
108	Effect of Iron on Growth and Ultrastructure of Acaryochloris marina. Applied and Environmental Microbiology, 2005, 71, 8606-8610.	3.1	34

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109	Recent advances in mapping environmental microbial metabolisms through ¹³ C isotopic fingerprints. Journal of the Royal Society Interface, 2012, 9, 2767-2780.	3.4	34
110	Low-Temperature Spectroscopic Properties of the Peridininâ€“Chlorophyll <i>a</i>â€“Protein (PCP) Complex from the Coral Symbiotic Dinoflagellate <i>Symbiodinium</i>. Journal of Physical Chemistry B, 2013, 117, 11091-11099.	2.6	34
111	Characterization of a newly isolated freshwater Eustigmatophyte alga capable of utilizing far-red light as its sole light source. Photosynthesis Research, 2018, 135, 177-189.	2.9	34
112	A novel chlorophyll protein complex in the repair cycle of photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21907-21913.	7.1	34
113	On the interface of light-harvesting antenna complexes and reaction centers in oxygenic photosynthesis. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 148079.	1.0	34
114	Role of the AcsF Protein in <i>Chloroflexus aurantiacus</i>. Journal of Bacteriology, 2009, 191, 3580-3587.	2.2	33
115	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.	3.7	33
116	Characterization of the peridininâ€“chlorophyll a-protein complex in the dinoflagellate Symbiodinium. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 983-989.	1.0	33
117	Ultrafast excitation dynamics of low energy pigments in reconstituted peripheral light-harvesting complexes of photosystem I. FEBS Letters, 2000, 471, 89-92.	2.8	32
118	The Ultrastructure of Chlorobium tepidum Chlorosomes Revealed by Electron Microscopy. Photosynthesis Research, 2005, 86, 145-154.	2.9	32
119	Variable fluorescence in green sulfur bacteria. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 106-113.	1.0	32
120	Metabolic flexibility revealed in the genome of the cyst-forming Î±-1 proteobacterium Rhodospirillum centenum. BMC Genomics, 2010, 11, 325.	2.8	32
121	PROPERTIES OF ZINC AND MAGNESIUM METHYL BACTERIOPHEOPHORBIDE <i>d</i> AND THEIR AGGREGATES. Photochemistry and Photobiology, 1993, 58, 290-295.	2.5	31
122	Low Light Adaptation: Energy Transfer Processes in Different Types of Light Harvesting Complexes from Rhodopseudomonas palustris. Biophysical Journal, 2009, 97, 3019-3028.	0.5	31
123	Characterization of the FMO protein from the aerobic chlorophototroph, Candidatus Chloracidobacterium thermophilum. Photosynthesis Research, 2010, 104, 201-209.	2.9	31
124	Characterisation of the LH2 spectral variants produced by the photosynthetic purple sulphur bacterium Allochromatium vinosum. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1849-1860.	1.0	31
125	Dynamics of Energy and Electron Transfer in the FMO-Reaction Center Core Complex from the Phototrophic Green Sulfur Bacterium <i>Chlorobaculum tepidum</i>. Journal of Physical Chemistry B, 2015, 119, 8321-8329.	2.6	31
126	Phycobilisomes Harbor FNR _L in Cyanobacteria. MBio, 2019, 10, .	4.1	31

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127	Light-Harvesting Antenna System from the Phototrophic Bacterium <i>Roseiflexus castenholzii</i>. Biochemistry, 2010, 49, 7524-7531.	2.5	30
128	The three-dimensional structure of the FMO protein from Pelodictyon phaeum and the implications for energy transfer. Photosynthesis Research, 2011, 107, 139-150.	2.9	30
129	Hydrogenâ€“Deuterium Exchange Mass Spectrometry Reveals the Interaction of Fennaâ€“Matthewsâ€“Olson Protein and Chlorosome CsmA Protein. Biochemistry, 2012, 51, 187-193.	2.5	30
130	Spectroscopic insights into the decreased efficiency of chlorosomes containing bacteriochlorophyll f. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 493-501.	1.0	30
131	Probing the excitonic landscape of the Chlorobaculum tepidum Fenna-Matthews-Olson (FMO) complex: a mutagenesis approach. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 288-296.	1.0	30
132	Photosynthesis tunes quantum-mechanical mixing of electronic and vibrational states to steer exciton energy transfer. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
133	Auracyanin a from the thermophilic green gliding photosynthetic bacterium chloroflexus aurantiacus represents an unusual class of small blue copper proteins. Protein Science, 1999, 8, 947-957.	7.6	29
134	Hypothesis on chlorosome biogenesis in green photosynthetic bacteria. FEBS Letters, 2007, 581, 800-803.	2.8	29
135	Effect of Spectral Density Shapes on the Excitonic Structure and Dynamics of the Fennaâ€“Matthewsâ€“Olson Trimer from Chlorobaculum tepidum. Journal of Physical Chemistry A, 2016, 120, 6146-6154.	2.5	29
136	FLUORESCENCE QUANTUM YIELDS AND LIFETIMES FOR BACTERIOCHLOROPHYLL <i>c</i>. Photochemistry and Photobiology, 1988, 47, 759-763.	2.5	28
137	Insights into heliobacterial photosynthesis and physiology from the genome of Heliobacterium modesticaldum. Photosynthesis Research, 2010, 104, 113-122.	2.9	28
138	Kinetics and energetics of electron transfer in reaction centers of the photosynthetic bacterium Roseiflexus castenholzii. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 262-269.	1.0	28
139	Energy Transfers in the B808â€“866 Antenna from the Green Bacterium Chloroflexus aurantiacus. Biophysical Journal, 1998, 74, 2069-2075.	0.5	27
140	Purification and Characterization of the B808â€“866 Light-harvesting Complex from Green Filamentous Bacterium Chloroflexus aurantiacus. Photosynthesis Research, 2005, 86, 155-163.	2.9	27
141	Carbon Flow of Heliobacteria Is Related More to Clostridia than to the Green Sulfur Bacteria. Journal of Biological Chemistry, 2010, 285, 35104-35112.	3.4	27
142	Triplet excited state spectra and dynamics of carotenoids from the thermophilic purple photosynthetic bacterium Thermochromatium tepidum. Photosynthesis Research, 2011, 107, 177-186.	2.9	27
143	Chemical activation of the cyanobacterial orange carotenoid protein. FEBS Letters, 2014, 588, 4561-4565.	2.8	27
144	Structural Analysis of the Homodimeric Reaction Center Complex from the Photosynthetic Green Sulfur Bacterium <i>Chlorobaculum tepidum</i>. Biochemistry, 2014, 53, 4924-4930.	2.5	27

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145	Transcriptomic analysis illuminates genes involved in chlorophyll synthesis after nitrogen starvation in Acaryochloris sp. CCMEE 5410. Photosynthesis Research, 2016, 129, 171-182.	2.9	27
146	Electron-transport chains of phototrophically and chemotrophically grown Chloroflexus aurantiacus. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 891, 216-226.	1.0	26
147	Pigment organization in the photosynthetic apparatus of Roseiflexus castenholzii. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1050-1056.	1.0	26
148	Structural model and spectroscopic characteristics of the FMO antenna protein from the aerobic chlorophototroph, Candidatus Chloracidobacterium thermophilum. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 157-164.	1.0	26
149	Excited state properties of chlorophyll f in organic solvents at ambient and cryogenic temperatures. Photosynthesis Research, 2014, 121, 25-34.	2.9	26
150	Excited State Properties of 3â€²-Hydroxyechinenone in Solvents and in the Orange Carotenoid Protein from <i>Synechocystis</i> sp. PCC 6803. Journal of Physical Chemistry B, 2014, 118, 6141-6149.	2.6	26
151	Electronâ€capture dissociation and ion mobility mass spectrometry for characterization of the hemoglobin protein assembly. Protein Science, 2015, 24, 1325-1332.	7.6	26
152	Perturbation of bacteriochlorophyll molecules in Fennaâ€“Matthewsâ€“Olson protein complexes through mutagenesis of cysteine residues. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1455-1463.	1.0	26
153	Native Mass Spectrometry Analysis of Oligomerization States of Fluorescence Recovery Protein and Orange Carotenoid Protein: Two Proteins Involved in the Cyanobacterial Photoprotection Cycle. Biochemistry, 2017, 56, 160-166.	2.5	26
154	Time-Resolved Fluorescence Measurements of Photosystem II:â€‰ The Effect of Quenching by Oxidized Chlorophyll Z. Journal of Physical Chemistry B, 1998, 102, 8320-8326.	2.6	24
155	Photosystem trap energies and spectrally-dependent energy-storage efficiencies in the Chl d-utilizing cyanobacterium, Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 255-265.	1.0	24
156	Photophysical Properties of the Excited States of Bacteriochlorophyll <i>f</i> in Solvents and in Chlorosomes. Journal of Physical Chemistry B, 2014, 118, 2295-2305.	2.6	24
157	A Molecular Mechanism for Nonphotochemical Quenching in Cyanobacteria. Biochemistry, 2017, 56, 2812-2823.	2.5	24
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