Bruno Robert

List of Publications by Year
in descending order

216	9,711	34016 52	46693 89
papers	citations	h-index	g-index

225	225	225	6158
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of a mechanism of photoprotective energy dissipation in higher plants. Nature, 2007, 450, 575-578.	13.7	808
2	Molecular basis of photoprotection and control of photosynthetic light-harvesting. Nature, 2005, 436, 134-137.	13.7	569
3	A photoactive carotenoid protein acting as light intensity sensor. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12075-12080.	3.3	324
4	Biomimetic organization: Octapeptide self-assembly into nanotubes of viral capsid-like dimension. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10258-10262.	3.3	248
5	Nanodissection and high-resolution imaging of the Rhodopseudomonas viridis photosynthetic core complex in native membranes by AFM. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1690-1693.	3.3	237
6	The Disulfide Bonds in Glycoprotein E2 of Hepatitis C Virus Reveal the Tertiary Organization of the Molecule. PLoS Pathogens, 2010, 6, e1000762.	2.1	210
7	Elevated Zeaxanthin Bound to Oligomeric LHCII Enhances the Resistance of Arabidopsis to Photooxidative Stress by a Lipid-protective, Antioxidant Mechanism. Journal of Biological Chemistry, 2007, 282, 22605-22618.	1.6	162
8	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.	1.7	152
9	Resonance Raman spectroscopy. Photosynthesis Research, 2009, 101, 147-155.	1.6	144
10	The H-NS dimerization domain defines a new fold contributing to DNA recognition. Nature Structural and Molecular Biology, 2003, 10, 212-218.	3.6	134
11	Laurdan solvatochromism: solvent dielectric relaxation and intramolecular excited-state reaction. Biophysical Journal, 1997, 73, 2221-2234.	0.2	126
12	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.	3.3	116
13	In vitro reconstitution of the activated zeaxanthin state associated with energy dissipation in plants. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16331-16335.	3.3	114
14	Light Harvesting by Carotenoids Incorporated into the B850 Light-Harvesting Complex fromRhodobactersphaeroidesR-26.1:Â Excited-State Relaxation, Ultrafast Triplet Formation, and Energy Transfer to Bacteriochlorophyll. Journal of Physical Chemistry B, 2003, 107, 5642-5649.	1.2	111
15	Primary donor structure and interactions in bacterial reaction centers from near-infrared Fourier transform resonance Raman spectroscopy. Biochemistry, 1991, 30, 4648-4654.	1.2	108
16	Changes in primary donor hydrogen-bonding interactions in mutant reaction centers from Rhodobacter sphaeroides : identification of the vibrational frequencies of all the conjugated carbonyl groups.. Biochemistry, 1994, 33, 1636-1643.	1.2	108
17	Structures of antenna complexes of several Rhodospirillales from their resonance Raman spectra. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 807, 10-23.	0.5	106
18	Xanthophylls of the major photosynthetic light-harvesting complex of plants: identification, conformation and dynamics. FEBS Letters, 2000, 477, 181-185.	1.3	103

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19	Configuration and Dynamics of Xanthophylls in Light-harvesting Antennae of Higher Plants. Journal of Biological Chemistry, 2001, 276, 24862-24870.	1.6	103
20	On the Presence and Role of a Molecule of Chlorophylla in the Cytochromeb6 f Complex. Journal of Biological Chemistry, 1997, 272, 21901-21908.	1.6	102
21	Activation of Zeaxanthin Is an Obligatory Event in the Regulation of Photosynthetic Light Harvesting. Journal of Biological Chemistry, 2002, 277, 7785-7789.	1.6	99
22	Unexpected similarities of the B800-850 light-harvesting complex from Rhodospirillum molischianum to the B870 light-harvesting complexes from other purple photosynthetic bacteria. Biochemistry, 1993, 32, 5615-5621.	1.2	96
23	Functions of Conserved Tryptophan Residues of the Core Light-Harvesting Complex of Rhodobacter sphaeroides. Biochemistry, 1997, 36, 2772-2778.	1.2	94
24	Electronic Absorption and Ground State Structure of Carotenoid Molecules. Journal of Physical Chemistry B, 2013, 117, 11015-11021.	1.2	93
25	Recombinant Lhca2 and Lhca3 Subunits of the Photosystem I Antenna System. Biochemistry, 2003, 42, 4226-4234.	1.2	91
26	Insights into the molecular dynamics of plant light-harvesting proteins in vivo. Trends in Plant Science, 2004, 9, 385-390.	4.3	91
27	The stereoisomerism of bacterial, reaction-center-bound carotenoids revisited: An electronic absorption, resonance Raman and 1H-NMR study. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 894, 423-433.	0.5	90
28	Carotenoid Structures and Environments in Trimeric and Oligomeric Fucoxanthin Chlorophyll a/c₂Proteins from Resonance Raman Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 12565-12574.	1.2	89
29	Site-Directed Modification of the Ligands to the Bacteriochlorophylls of the Light-Harvesting LH1 and LH2 Complexes ofRhodobactersphaeroidesâ€. Biochemistry, 1997, 36, 12625-12632.	1.2	87
30	Pigment organization in fucoxanthin chlorophyll a/c2 proteins (FCP) based on resonance Raman spectroscopy and sequence analysis. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1647-1656.	0.5	86
31	AFM Characterization of Tilt and Intrinsic Flexibility of Rhodobacter sphaeroides Light Harvesting Complex 2 (LH2). Journal of Molecular Biology, 2003, 325, 569-580.	2.0	84
32	Thermodynamics of Membrane Polypeptide Oligomerization in Light-harvesting Complexes and Associated Structural Changes. Journal of Molecular Biology, 1994, 238, 445-454.	2.0	82
33	Site-specific mutagenesis of the reaction centre fromRhodobacter sphaeroidesstudied by Fourier transform Raman spectroscopy: mutations at tyrosine M210 do not affect the electronic structure of the primary donor. FEBS Letters, 1994, 339, 18-24.	1.3	81
34	Electronic and vibrational properties of carotenoids: from <i>in vitro</i> to <i>in vivo</i>. Journal of the Royal Society Interface, 2017, 14, 20170504.	1.5	81
35	The Degree of Oligomerization of the H-NS Nucleoid Structuring Protein Is Related to Specific Binding to DNA. Journal of Biological Chemistry, 2002, 277, 41657-41666.	1.6	79
36	Structure and Properties of the Bacteriochlorophyll Binding Site in Peripheral Light-Harvesting Complexes of Purple Bacteria. Biochemistry, 1995, 34, 517-523.	1.2	76

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37	Structure, spectroscopic, and redox properties of Rhodobacter sphaeroides reaction centers bearing point mutations near the primary electron donor. Biochemistry, 1993, 32, 12875-12886.	1.2	75
38	Influence of the Protein Binding Site on the Absorption Properties of the Monomeric Bacteriochlorophyll in Rhodobacter sphaeroides LH2 Complex. Biochemistry, 1997, 36, 16282-16287.	1.2	72
39	Pigment Binding-Site and Electronic Properties in Light-Harvesting Proteins of Purple Bacteria. Journal of Physical Chemistry B, 1997, 101, 7227-7231.	1.2	69
40	Ultrafast Evolution of the Excited States in the Chlorophyll a/b Complex CP29 from Green Plants Studied by Energy-Selective Pumpâˆ'Probe Spectroscopy. Biochemistry, 1998, 37, 1143-1149.	1.2	69
41	A resonance Raman characterization of the primary electron acceptor in photosystem II. Biochemistry, 1989, 28, 3641-3645.	1.2	68
42	Resonance Raman Spectroscopy of the Photosystem II Light-Harvesting Complex of Green Plants: A Comparison of Trimeric and Aggregated States. Biochemistry, 1995, 34, 2333-2337.	1.2	67
43	Oxidation of the Two Î²-Carotene Molecules in the Photosystem II Reaction Centerâ€. Biochemistry, 2003, 42, 1008-1015.	1.2	65
44	Molecular Configuration of Xanthophyll Cycle Carotenoids in Photosystem II Antenna Complexes. Journal of Biological Chemistry, 2002, 277, 42937-42942.	1.6	62
45	Photoprotection in Plants Involves a Change in Lutein 1 Binding Domain in the Major Light-harvesting Complex of Photosystem II. Journal of Biological Chemistry, 2011, 286, 27247-27254.	1.6	62
46	Artificial Photosynthesis for Solar Fuels â€" an Evolving Research Field within AMPEA, a Joint Programme of the European Energy Research Alliance. Green, 2013, 3, .	0.4	62
47	Self-Association Process of a Peptide in Solution: From Î²-Sheet Filaments to Large Embedded Nanotubes. Biophysical Journal, 2004, 86, 2484-2501.	0.2	60
48	Resonance Raman Spectra and Electronic Transitions in Carotenoids: A Density Functional Theory Study. Journal of Physical Chemistry A, 2014, 118, 1817-1825.	1.1	60
49	Mapping energy transfer channels in fucoxanthinâ€"chlorophyll protein complex. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 241-247.	0.5	59
50	Molecular Adaptation of Photoprotection: Triplet States in Light-Harvesting Proteins. Biophysical Journal, 2011, 101, 934-942.	0.2	58
51	Application of near-IR Fourier transform resonance Raman spectroscopy to the study of photosynthetic proteins. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 785-799.	0.1	54
52	Structure of the primary donor of Rhodopseudomonas sphaeroides: difference resonance Raman spectroscopy of reaction centers. Biochemistry, 1986, 25, 2303-2309.	1.2	53
53	Two-dimensional spectroscopy for non-specialists. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 271-285.	0.5	53
54	Selective photochemical reduction of either of the two bacteriopheophytins in reaction centers of Rps. sphaeroides R-26. FEBS Letters, 1985, 183, 326-330.	1.3	52

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55	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.	1.2	52
56	Spectroscopic characterization of the spinach Lhcb4 protein (CP29), a minor light-harvesting complex of photosystem II. FEBS Journal, 1999, 262, 817-823.	0.2	51
57	Variation in carotenoidâ€"protein interaction in bird feathers produces novel plumage coloration. Journal of the Royal Society Interface, 2012, 9, 3338-3350.	1.5	51
58	Resonance Raman Spectroscopy of a Light-Harvesting Protein from the Brown AlgaLaminaria saccharinaâ€. Biochemistry, 1998, 37, 2450-2457.	1.2	49
59	Design, synthesis and properties of synthetic chlorophyll proteins. FEBS Journal, 2001, 268, 3284-3295.	0.2	48
60	Echinenone vibrational properties: From solvents to the orange carotenoid protein. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1044-1054.	0.5	48
61	Resonance Raman Spectra of Carotenoid Molecules: Influence of Methyl Substitutions. Journal of Physical Chemistry A, 2015, 119, 56-66.	1.1	47
62	Proteic events following charge separation in the bacterial reaction center: resonance Raman spectroscopy. Biochemistry, 1988, 27, 5108-5114.	1.2	46
63	Strong Effects of an Individual Water Molecule on the Rate of Light-driven Charge Separation in the Rhodobacter sphaeroides Reaction Center. Journal of Biological Chemistry, 2005, 280, 27155-27164.	1.6	46
64	The role of chromophore coupling in tuning the spectral properties of peripheral light-harvesting protein of purple bacteria. Photosynthesis Research, 1996, 50, 5-10.	1.6	44
65	Characterization of the Different Peripheral Light-Harvesting Complexes from High- and Low-Light Grown Cells from Rhodopseudomonas palustris. Biochemistry, 1999, 38, 5185-5190.	1.2	44
66	Conformation of Bacteriochlorophyll Molecules in Photosynthetic Proteins from Purple Bacteriaâ€. Biochemistry, 1999, 38, 11115-11121.	1.2	43
67	The 2-Cys Peroxiredoxin Alkyl Hydroperoxide Reductase C Binds Heme and Participates in Its Intracellular Availability in Streptococcus agalactiae. Journal of Biological Chemistry, 2010, 285, 16032-16041.	1.6	43
68	The Light-Harvesting System of Purple Bacteria. Advances in Photosynthesis and Respiration, 2003, , 169-194.	1.0	42
69	Static and Dynamic Protein Impact on Electronic Properties of Light-Harvesting Complex LH2. Journal of Physical Chemistry B, 2008, 112, 15883-15892.	1.2	41
70	Preferential Incorporation of Coloured-carotenoids Occurs in the LH2 Complexes From Non-sulphur Purple Bacteria Under Carotenoid-limiting Conditions. Photosynthesis Research, 2005, 86, 25-35.	1.6	39
71	Mechanisms Underlying Carotenoid Absorption in Oxygenic Photosynthetic Proteins. Journal of Biological Chemistry, 2013, 288, 18758-18765.	1.6	39
72	Resonance Raman characterization of Rhodobacter sphaeroides reaction centers bearing site-directed mutations at tyrosine M210. Biochemistry, 1991, 30, 1715-1722.	1.2	38

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73	Resonance Raman spectroscopy of metal-substituted bacteriochlorophylls: characterization of Raman bands sensitive to bacteriochlorin conformation. Journal of Raman Spectroscopy, 1997, 28, 599-604.	1.2	38
74	Structure of the primary electron donor in photosystem I: a resonance Raman study. Biochemistry, 1990, 29, 4740-4746.	1.2	37
75	The peripheral lightâ€harvesting complexes from purple sulfur bacteria have different â€˜ringâ€™ sizes. FEBS Letters, 2008, 582, 3650-3656.	1.3	37
76	Twisting a Î²-Carotene, an Adaptive Trick from Nature for Dissipating Energy during Photoprotection. Journal of Biological Chemistry, 2017, 292, 1396-1403.	1.6	37
77	Membrane Protein Stability:Â High Pressure Effects on the Structure and Chromophore-Binding Properties of the Light-Harvesting Complex LH2â€. Biochemistry, 2003, 42, 13019-13026.	1.2	36
78	Effects of vinyl substitutions on resonance Raman spectra of (bacterio)chlorophylls. Journal of Raman Spectroscopy, 1994, 25, 365-370.	1.2	35
79	Tuning of the optical and electrochemical properties of the primary donor bacteriochlorophylls in the reaction centre from Rhodobacter sphaeroides: spectroscopy and structure. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1554, 75-93.	0.5	35
80	Probing the carotenoid content of intact Cyclotella cells by resonance Raman spectroscopy. Photosynthesis Research, 2014, 119, 273-281.	1.6	35
81	Structure and Binding Site of the Primary Electron Acceptor in the Reaction Center of Chlorobium. Biochemistry, 1994, 33, 7594-7599.	1.2	34
82	Influence of Carotenoid Molecules on the Structure of the Bacteriochlorophyll Binding Site in Peripheral Light-Harvesting Proteins fromRhodobacter sphaeroidesâ€,â€¡. Biochemistry, 2003, 42, 7252-7258.	1.2	34
83	Carotenoid Specificity of Light-harvesting Complex II Binding Sites. Journal of Biological Chemistry, 2004, 279, 5162-5168.	1.6	34
84	Resonance Raman studies of bacterial reaction centers. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1017, 99-111.	0.5	33
85	Conformational flexibility and polymerization of vesicular stomatitis virus matrix protein. Journal of Molecular Biology, 1997, 274, 816-825.	2.0	33
86	Ultrafast Energy Transfer from Chlorophyll <i>c</i>₂ to Chlorophyll <i>a</i> in Fucoxanthinâ€“Chlorophyll Protein Complex. Journal of Physical Chemistry Letters, 2013, 4, 3590-3595.	2.1	33
87	Vibrational techniques applied to photosynthesis: Resonance Raman and fluorescence line-narrowing. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 12-18.	0.5	33
88	Binding of pigments to the cyanobacterial high-light-inducible protein HliC. Photosynthesis Research, 2018, 137, 29-39.	1.6	32
89	ISOLATION and SPECTROSCOPIC CHARACTERIZATION OF THE B875 ANTENNA COMPLEX OF A MUTANT OF Rhodopseudomonas sphaeroides. Photochemistry and Photobiology, 1985, 42, 573-578.	1.3	31
90	CHEMICALLY MODIFIED PHOTOSYNTHETIC BACTERIAL REACTION CENTERS: CIRCULAR DICHROISM, RAMAN RESONANCE, LOW TEMPERATURE ABSORPTION, FLUORESCENCE AND ODMR SPECTRA AND POLYPEPTIDE COMPOSITION OF BOROHYDRIDE TREATED REACTION CENTERS FROM Rhodobacter sphaeroides R26. Photochemistry and Photobiology, 1988, 47, 293-304.	1.3	31

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91	Transfer RNAâˆ'Pseudouridine Synthetase Pus1 ofSaccharomyces cerevisiaeContains One Atom of Zinc Essential for Its Native Conformation and tRNA Recognitionâ€. Biochemistry, 1998, 37, 7268-7276.	1.2	31
92	Energy dissipation in the ground-state vibrational manifolds of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-carotene homologues: A sub-20-fs time-resolved transient grating spectroscopic study. Physical Review B, 2008, 77, .	1.1	31
93	Non-bonding molecular factors influencing the stretching wavenumbers of the conjugated carbonyl groups of bacteriochlorophylla. Journal of Raman Spectroscopy, 1998, 29, 977-981.	1.2	30
94	Different crystal morphologies lead to slightly different conformations of light-harvesting complex II as monitored by variations of the intrinsic fluorescence lifetime. Physical Chemistry Chemical Physics, 2011, 13, 12614.	1.3	30
95	Coherence and population dynamics of chlorophyll excitations in FCP complex: Two-dimensional spectroscopy study. Journal of Chemical Physics, 2015, 142, 212414.	1.2	30
96	Investigation of cyclodextrin inclusion compounds using FT-IR and Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1995, 51, 1861-1870.	2.0	29
97	Tuning of the redox potential of the primary electron donor in reaction centres of purple bacteria: effects of amino acid polarity and position. FEBS Letters, 2002, 527, 171-175.	1.3	29
98	Structure and Conformation of the Carotenoids in Human Retinal Macular Pigment. PLoS ONE, 2015, 10, e0135779.	1.1	29
99	Bacteriochlorin-protein interactions in native B800-B850, B800 deficient and B800-Bchlap-reconstituted complexes fromRhodopseudomonas acidophila, strain 10050. FEBS Letters, 1999, 449, 269-272.	1.3	28
100	Solvation Effect of Bacteriochlorophyll Excitons in Light-Harvesting Complex LH2. Biophysical Journal, 2007, 93, 2188-2198.	0.2	28
101	Resonance Raman spectroscopy of the B820 subunit of the core antenna from Rhodospirillum rubrum G9. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1183, 369-373.	0.5	27
102	Symmetric Structural Features and Binding Site of the Primary Electron Donor in the Reaction Center of Chlorobium. Biochemistry, 1995, 34, 11099-11105.	1.2	27
103	The Effect of Pressure on the BacteriochlorophyllaBinding Sites of the Core Antenna Complex fromRhodospirillum rubrum. Biochemistry, 1998, 37, 14875-14880.	1.2	27
104	Perturbation of the ground-state electronic structure of FMN by the conserved cysteine in phototropin LOV2 domains. Physical Chemistry Chemical Physics, 2008, 10, 6693.	1.3	27
105	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.	1.7	26
106	Energy Transfer and Trapping in Red-Chlorophyll-Free Photosystem I from <i>Synechococcus</i> WH 7803. Journal of Physical Chemistry B, 2013, 117, 11176-11183.	1.2	26
107	Origin of Absorption Changes Associated with Photoprotective Energy Dissipation in the Absence of Zeaxanthin. Journal of Biological Chemistry, 2011, 286, 91-98.	1.6	25
108	Biochemical and Spectroscopic Characterization of the B800-850 Light-Harvesting Complex from Rhodobacter sulfidophilus and Its B800-830 Spectral Form. Biochemistry, 1995, 34, 10519-10524.	1.2	24

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109	Fermi Resonance as a Tool for Probing Peridinin Environment. Journal of Physical Chemistry B, 2014, 118, 5873-5881.	1.2	24
110	Tripletâ€"triplet energy transfer in artificial and natural photosynthetic antennas. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5513-E5521.	3.3	24
111	Pigment interactions in chlorosomes of various green bacteria. Photosynthesis Research, 1994, 41, 175-180.	1.6	23
112	Transmembrane Helix Stability: The Effect of Helix-Helix Interactions Studied by Fourier Transform Infrared Spectroscopy. Biophysical Journal, 1998, 74, 988-994.	0.2	23
113	Tuning antenna function through hydrogen bonds to chlorophyll a. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148078.	0.5	23
114	Structure and Interactions of the ChlorophyllaMolecules in the Higher Plant Lhcb4 Antenna Protein. Journal of Physical Chemistry B, 2000, 104, 9317-9321.	1.2	22
115	Hydrogen Bonding in a Model Bacteriochlorophyll-binding Site Drives Assembly of Light Harvesting Complex. Journal of Biological Chemistry, 2004, 279, 15067-15075.	1.6	22
116	Selfâ€assembly of the octapeptide lanreotide and lanreotideâ€based derivatives: the role of the aromatic residues. Journal of Peptide Science, 2008, 14, 66-75.	0.8	22
117	Light-dependent conformational change of neoxanthin in a siphonous green alga, Codium intricatum, revealed by Raman spectroscopy. Photosynthesis Research, 2014, 121, 69-77.	1.6	22
118	Fourier-transform resonance Raman spectra of cation carotenoid in photosystem II reaction centres. FEBS Letters, 1999, 453, 11-14.	1.3	21
119	Exchanging Cofactors in the Core Antennae from Purple Bacteria: Structure and Properties of Znâ^'Bacteriopheophytin-Containing LH1. Biochemistry, 2000, 39, 1091-1099.	1.2	21
120	Structural Role of (Bacterio)chlorophyll Ligated in the Energetically Unfavorable Î²-Position. Journal of Biological Chemistry, 2006, 281, 10626-10634.	1.6	21
121	Structural and Spectroscopic Consequences of Hexacoordination of a Bacteriochlorophyll Cofactor in the <i>Rhodobacter sphaeroides</i> Reaction Center,. Biochemistry, 2010, 49, 1882-1892.	1.2	21
122	In the Unicellular Red Alga Rhodella violacea Iron Deficiency Induces an Accumulation of Uncoupled LHC. Plant and Cell Physiology, 2003, 44, 1141-1151.	1.5	20
123	Electronic and Protein Structural Dynamics of a Photosensory Histidine Kinase. Biochemistry, 2010, 49, 4752-4759.	1.2	20
124	Conformational Switching in a Light-Harvesting Protein as Followed by Single-Molecule Spectroscopy. Biophysical Journal, 2015, 108, 2713-2720.	0.2	20
125	Pigment Binding Site Properties of Two Photosystem II Antenna Proteins. Journal of Biological Chemistry, 2000, 275, 22031-22036.	1.6	19
126	Effect of High Pressure on the Photochemical Reaction Center from Rhodobacter sphaeroides R26.1. Biophysical Journal, 2001, 80, 1487-1497.	0.2	19

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127	Identification of intramembrane hydrogen bonding between 131 keto group of bacteriochlorophyll and serine residue Î±27 in the LH2 light-harvesting complex. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1607, 19-26.	0.5	19
128	Temperature Broadening of LH2 Absorption in Glycerol Solution. Photosynthesis Research, 2005, 86, 49-59.	1.6	19
129	Myoglobin with modified tetrapyrrole chromophores: Binding specificity and photochemistry. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 750-763.	0.5	19
130	Binding of bufuralol, dextromethorphan, and 3,4-methylenedioxymethylamphetamine to wild-type and F120A mutant cytochrome P450 2D6 studied by resonance Raman spectroscopy. Biochemical and Biophysical Research Communications, 2006, 343, 772-779.	1.0	19
131	Pigment structure in the violaxanthinâ€"chlorophyll-a-binding protein VCP. Photosynthesis Research, 2017, 134, 51-58.	1.6	19
132	Carotenoid stoichiometry in the LH2 crystal: No spectral evidence for the presence of the second molecule in the Î±/Î²-apoprotein dimer. FEBS Letters, 2006, 580, 3841-3844.	1.3	18
133	Exciton Band Structure in Bacterial Peripheral Light-Harvesting Complexes. Journal of Physical Chemistry B, 2012, 116, 5192-5198.	1.2	18
134	Lycopene crystalloids exhibit singlet exciton fission in tomatoes. Physical Chemistry Chemical Physics, 2018, 20, 8640-8646.	1.3	18
135	Intergeneric structural variability of the primary donor of photosynthetic bacteria: Resonance raman spectroscopy of reaction centers from two Rhodospirillum and Rhodobacter species. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 890, 368-376.	0.5	17
136	Probing the binding sites of exchanged chlorophyllain LH2 by Raman and site-selection fluorescence spectroscopies. FEBS Letters, 2001, 491, 143-147.	1.3	17
137	Structural Asymmetry of Bacterial Reaction Centers: A Qy Resonant Raman Study of the Monomer Bacteriochlorophylls. Journal of Physical Chemistry A, 2002, 106, 3605-3613.	1.1	17
138	Protein-prosthetic group interactions in bacterial reaction centers: resonance raman spectroscopy of the reaction center of Rhodopseudomonas viridis. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 977, 10-18.	0.5	16
139	Membrane-Associatedc-type Cytochromes from the Green Sulfur BacteriumChlorobium limicolaformathiosulfatophilum:Â Purification and Characterization of Cytochromec553â€. Biochemistry, 1997, 36, 1927-1932.	1.2	16
140	Role of the C-Terminal Extrinsic Region of the Î± Polypeptide of the Light-Harvesting 2 Complex ofRhodobacter sphaeroides:Â A Domain Swap Studyâ€. Biochemistry, 2003, 42, 15114-15123.	1.2	16
141	The Electronic Structure, Stereochemistry and Resonance Raman Spectroscopy of Carotenoids. , 1999, , 189-201.		16
142	Pigment structure in the FCP-like light-harvesting complex from Chromera velia. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1759-1765.	0.5	16
143	Hydrophobic Pockets at the Membrane Interface: An Original Mechanism for Membrane Protein Interactionsâ€. Biochemistry, 2004, 43, 1276-1282.	1.2	15
144	A resonance Raman investigation of the effect of lithium dodecyl sulfate on the B800â€"850 light-harvesting protein of Rhodopseudomonas acidophila 7750. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 934, 401-405.	0.5	14

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145	Pheophytinâˆ'Protein Interactions in Photosystem II Studied by Resonance Raman Spectroscopy of Modified Reaction Centers. Biochemistry, 2002, 41, 11449-11455.	1.2	14
146	Excitons in the LH3 Complexes from Purple Bacteria. Journal of Physical Chemistry B, 2013, 117, 11058-11068.	1.2	14
147	A kaleidoscope of photosynthetic antenna proteins and their emerging roles. Plant Physiology, 2022, 189, 1204-1219.	2.3	14
148	Structural characterization and comparison of antenna complexes of R26 and R26.1 mutants of Rhodopseudomonas sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 766, 259-262.	0.5	13
149	Fluorescence Line Narrowing Studies on Isolated Chlorophyll Molecules. Journal of Physical Chemistry B, 2010, 114, 2255-2260.	1.2	13
150	Confronting FCP structure with ultrafast spectroscopy data: evidence for structural variations. Physical Chemistry Chemical Physics, 2021, 23, 806-821.	1.3	13
151	Singlet fission in naturally-organized carotenoid molecules. Physical Chemistry Chemical Physics, 2021, 23, 4768-4776.	1.3	13
152	Hydrogen Bonding and Circular Dichroism of Bacteriochlorophylls in the Rhodobacter capsulatus Light-Harvesting 2 Complex Altered by Combinatorial Mutagenesis. Biochemistry, 1998, 37, 10006-10015.	1.2	12
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