

# Bruno Robert

## List of Publications by Year in descending order

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216  
papers

9,711  
citations

34076

52  
h-index

46771

89  
g-index

225  
all docs

225  
docs citations

225  
times ranked

6158  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Identification of a mechanism of photoprotective energy dissipation in higher plants. <i>Nature</i> , 2007, 450, 575-578.  | 13.7 | 808       |
| 2  | Molecular basis of photoprotection and control of photosynthetic light-harvesting. <i>Nature</i> , 2005, 436, 134-137.   | 13.7 | 569       |
| 3  | A photoactive carotenoid protein acting as light intensity sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12075-12080.  | 3.3  | 324       |
| 4  | Biomimetic organization: Octapeptide self-assembly into nanotubes of viral capsid-like dimension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10258-10262.   | 3.3  | 248       |
| 5  | Nanodissection and high-resolution imaging of the <i>Rhodospseudomonas viridis</i> photosynthetic core complex in native membranes by AFM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>PLoS Pathogens</i> , 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. <i>Journal of Biological Chemistry</i> , 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 <i>Rhodobacter sphaeroides</i> with alterations at I $\pm$ -Tyr-44 and I $\pm$ -Tyr-45. <i>Biochemical Journal</i> , 1994, 299, 695-700.                                       | 1.7  | 152       |
| 9  | Resonance Raman spectroscopy. <i>Photosynthesis Research</i> , 2009, 101, 147-155.   | 1.6  | 144       |
| 10 | The H-NS dimerization domain defines a new fold contributing to DNA recognition. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 212-218.   | 3.6  | 134       |
| 11 | Laurdan solvatochromism: solvent dielectric relaxation and intramolecular excited-state reaction. <i>Biophysical Journal</i> , 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 <i>Rhodobacter sphaeroides</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 7124-7128.   | 3.3  | 116       |
| 13 | In vitro reconstitution of the activated zeaxanthin state associated with energy dissipation in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16331-16335.  | 3.3  | 114       |
| 14 | Light Harvesting by Carotenoids Incorporated into the B850 Light-Harvesting Complex from <i>Rhodobacter sphaeroides</i> R-26.1: $\text{\AA}$ Excited-State Relaxation, Ultrafast Triplet Formation, and Energy Transfer to Bacteriochlorophyll. <i>Journal of Physical Chemistry B</i> , 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. <i>Biochemistry</i> , 1991, 30, 4648-4654.   | 1.2  | 108       |
| 16 | Changes in primary donor hydrogen-bonding interactions in mutant reaction centers from <i>Rhodobacter sphaeroides</i> : identification of the vibrational frequencies of all the conjugated carbonyl groups.. <i>Biochemistry</i> , 1994, 33, 1636-1643.   | 1.2  | 108       |
| 17 | Structures of antenna complexes of several Rhodospirillales from their resonance Raman spectra. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1985, 807, 10-23.   | 0.5  | 106       |
| 18 | Xanthophylls of the major photosynthetic light-harvesting complex of plants: identification, conformation and dynamics. <i>FEBS Letters</i> , 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 Cytochrome b <sub>6</sub> 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 rubrum 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 Rhodospirillum rubrum. 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 <sup>1</sup> H-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/c <sub>2</sub> Proteins 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 of Rhodospirillum rubrum. Biochemistry, 1997, 36, 12625-12632.   | 1.2 | 87        |
| 30 | Pigment organization in fucoxanthin chlorophyll a/c <sub>2</sub> 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 Rhodospirillum rubrum 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 from Rhodospirillum rubrum studied 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. <i>Biochemistry</i> , 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. <i>Biochemistry</i> , 1997, 36, 16282-16287.     | 1.2 | 72        |
| 39 | Pigment Binding-Site and Electronic Properties in Light-Harvesting Proteins of Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 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 Pump-Probe Spectroscopy. <i>Biochemistry</i> , 1998, 37, 1143-1149.  | 1.2 | 69        |
| 41 | A resonance Raman characterization of the primary electron acceptor in photosystem II. <i>Biochemistry</i> , 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. <i>Biochemistry</i> , 1995, 34, 2333-2337.          | 1.2 | 67        |
| 43 | Oxidation of the Two $\beta$ -Carotene Molecules in the Photosystem II Reaction Center. <i>Biochemistry</i> , 2003, 42, 1008-1015.   | 1.2 | 65        |
| 44 | Molecular Configuration of Xanthophyll Cycle Carotenoids in Photosystem II Antenna Complexes. <i>Journal of Biological Chemistry</i> , 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. <i>Journal of Biological Chemistry</i> , 2011, 286, 27247-27254. | 1.6 | 62        |
| 46 | Artificial Photosynthesis for Solar Fuels – an Evolving Research Field within AMPEA, a Joint Programme of the European Energy Research Alliance. <i>Green</i> , 2013, 3, .                       | 0.4 | 62        |
| 47 | Self-Association Process of a Peptide in Solution: From $\beta$ -Sheet Filaments to Large Embedded Nanotubes. <i>Biophysical Journal</i> , 2004, 86, 2484-2501.                                  | 0.2 | 60        |
| 48 | Resonance Raman Spectra and Electronic Transitions in Carotenoids: A Density Functional Theory Study. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1817-1825.                             | 1.1 | 60        |
| 49 | Mapping energy transfer channels in fucoxanthin-chlorophyll protein complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 241-247.   | 0.5 | 59        |
| 50 | Molecular Adaptation of Photoprotection: Triplet States in Light-Harvesting Proteins. <i>Biophysical Journal</i> , 2011, 101, 934-942.   | 0.2 | 58        |
| 51 | Application of near-IR Fourier transform resonance Raman spectroscopy to the study of photosynthetic proteins. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993, 49, 785-799.    | 0.1 | 54        |
| 52 | Structure of the primary donor of Rhodospseudomonas sphaeroides: difference resonance Raman spectroscopy of reaction centers. <i>Biochemistry</i> , 1986, 25, 2303-2309.                         | 1.2 | 53        |
| 53 | Two-dimensional spectroscopy for non-specialists. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 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. <i>FEBS Letters</i> , 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 <i>Rhodobacter sphaeroides</i> . Comparisons with detergent-solubilized complexes.. <i>Biochemistry</i> , 1995, 34, 14712-14721. | 1.2 | 52        |
| 56 | Spectroscopic characterization of the spinach Lhcb4 protein (CP29), a minor light-harvesting complex of photosystem II. <i>FEBS Journal</i> , 1999, 262, 817-823.  | 0.2 | 51        |
| 57 | Variation in carotenoid-protein interaction in bird feathers produces novel plumage coloration. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3338-3350.  | 1.5 | 51        |
| 58 | Resonance Raman Spectroscopy of a Light-Harvesting Protein from the Brown Alga <i>Laminaria saccharina</i> . <i>Biochemistry</i> , 1998, 37, 2450-2457.  | 1.2 | 49        |
| 59 | Design, synthesis and properties of synthetic chlorophyll proteins. <i>FEBS Journal</i> , 2001, 268, 3284-3295.  | 0.2 | 48        |
| 60 | Echinone vibrational properties: From solvents to the orange carotenoid protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1044-1054.   | 0.5 | 48        |
| 61 | Resonance Raman Spectra of Carotenoid Molecules: Influence of Methyl Substitutions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 56-66.   | 1.1 | 47        |
| 62 | Proteic events following charge separation in the bacterial reaction center: resonance Raman spectroscopy. <i>Biochemistry</i> , 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 <i>Rhodobacter sphaeroides</i> Reaction Center. <i>Journal of Biological Chemistry</i> , 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. <i>Photosynthesis Research</i> , 1996, 50, 5-10.   | 1.6 | 44        |
| 65 | Characterization of the Different Peripheral Light-Harvesting Complexes from High- and Low-Light Grown Cells from <i>Rhodospseudomonas palustris</i> . <i>Biochemistry</i> , 1999, 38, 5185-5190.                              | 1.2 | 44        |
| 66 | Conformation of Bacteriochlorophyll Molecules in Photosynthetic Proteins from Purple Bacteria. <i>Biochemistry</i> , 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 <i>Streptococcus agalactiae</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 16032-16041.    | 1.6 | 43        |
| 68 | The Light-Harvesting System of Purple Bacteria. <i>Advances in Photosynthesis and Respiration</i> , 2003, , 169-194.   | 1.0 | 42        |
| 69 | Static and Dynamic Protein Impact on Electronic Properties of Light-Harvesting Complex LH2. <i>Journal of Physical Chemistry B</i> , 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. <i>Photosynthesis Research</i> , 2005, 86, 25-35.                        | 1.6 | 39        |
| 71 | Mechanisms Underlying Carotenoid Absorption in Oxygenic Photosynthetic Proteins. <i>Journal of Biological Chemistry</i> , 2013, 288, 18758-18765.  | 1.6 | 39        |
| 72 | Resonance Raman characterization of <i>Rhodobacter sphaeroides</i> reaction centers bearing site-directed mutations at tyrosine M210. <i>Biochemistry</i> , 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. <i>Journal of Raman Spectroscopy</i> , 1997, 28, 599-604.   | 1.2 | 38        |
| 74 | Structure of the primary electron donor in photosystem I: a resonance Raman study. <i>Biochemistry</i> , 1990, 29, 4740-4746.  | 1.2 | 37        |
| 75 | The peripheral light-harvesting complexes from purple sulfur bacteria have different $\beta$ -ring sizes. <i>FEBS Letters</i> , 2008, 582, 3650-3656.  | 1.3 | 37        |
| 76 | Twisting a $\beta$ -Carotene, an Adaptive Trick from Nature for Dissipating Energy during Photoprotection. <i>Journal of Biological Chemistry</i> , 2017, 292, 1396-1403.  | 1.6 | 37        |
| 77 | Membrane Protein Stability: High Pressure Effects on the Structure and Chromophore-Binding Properties of the Light-Harvesting Complex LH2. <i>Biochemistry</i> , 2003, 42, 13019-13026.  | 1.2 | 36        |
| 78 | Effects of vinyl substitutions on resonance Raman spectra of (bacterio)chlorophylls. <i>Journal of Raman Spectroscopy</i> , 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 <i>Rhodobacter sphaeroides</i> : spectroscopy and structure. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1554, 75-93.  | 0.5 | 35        |
| 80 | Probing the carotenoid content of intact <i>Cyclotella</i> cells by resonance Raman spectroscopy. <i>Photosynthesis Research</i> , 2014, 119, 273-281.   | 1.6 | 35        |
| 81 | Structure and Binding Site of the Primary Electron Acceptor in the Reaction Center of Chlorobium. <i>Biochemistry</i> , 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 from <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 2003, 42, 7252-7258.  | 1.2 | 34        |
| 83 | Carotenoid Specificity of Light-harvesting Complex II Binding Sites. <i>Journal of Biological Chemistry</i> , 2004, 279, 5162-5168.  | 1.6 | 34        |
| 84 | Resonance Raman studies of bacterial reaction centers. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990, 1017, 99-111.  | 0.5 | 33        |
| 85 | Conformational flexibility and polymerization of vesicular stomatitis virus matrix protein. <i>Journal of Molecular Biology</i> , 1997, 274, 816-825.  | 2.0 | 33        |
| 86 | Ultrafast Energy Transfer from Chlorophyll $2$ to Chlorophyll $a$ in Fucoxanthin-Chlorophyll Protein Complex. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3590-3595.   | 2.1 | 33        |
| 87 | Vibrational techniques applied to photosynthesis: Resonance Raman and fluorescence line-narrowing. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 12-18.   | 0.5 | 33        |
| 88 | Binding of pigments to the cyanobacterial high-light-inducible protein HliC. <i>Photosynthesis Research</i> , 2018, 137, 29-39.  | 1.6 | 32        |
| 89 | ISOLATION and SPECTROSCOPIC CHARACTERIZATION OF THE B875 ANTENNA COMPLEX OF A MUTANT OF <i>Rhodospseudomonas sphaeroides</i> . <i>Photochemistry and Photobiology</i> , 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 <i>Rhodobacter sphaeroides</i> R26. <i>Photochemistry and Photobiology</i> , 1988, 47, 293-304. | 1.3 | 31        |

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|-----|---|-----|-----------|
| 91  | Transfer RNA <sup>Asp</sup> Pseudouridine Synthetase Pus1 of <i>Saccharomyces cerevisiae</i> Contains One Atom of Zinc Essential for Its Native Conformation and tRNA Recognition. <i>Biochemistry</i> , 1998, 37, 7268-7276.           | 1.2 | 31        |
| 92  | Energy dissipation in the ground-state vibrational manifolds of $\beta$ -carotene homologues: A sub-20-fs time-resolved transient grating spectroscopic study. <i>Physical Review B</i> , 2008, 77, .                                   | 1.1 | 31        |
| 93  | Non-bonding molecular factors influencing the stretching wavenumbers of the conjugated carbonyl groups of bacteriochlorophylla. <i>Journal of Raman Spectroscopy</i> , 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. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12614. | 1.3 | 30        |
| 95  | Coherence and population dynamics of chlorophyll excitations in FCP complex: Two-dimensional spectroscopy study. <i>Journal of Chemical Physics</i> , 2015, 142, 212414.  | 1.2 | 30        |
| 96  | Investigation of cyclodextrin inclusion compounds using FT-IR and Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 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. <i>FEBS Letters</i> , 2002, 527, 171-175.  | 1.3 | 29        |
| 98  | Structure and Conformation of the Carotenoids in Human Retinal Macular Pigment. <i>PLoS ONE</i> , 2015, 10, e0135779.   | 1.1 | 29        |
| 99  | Bacteriochlorin-protein interactions in native B800-B850, B800 deficient and B800-Bchl <sub>a</sub> -reconstituted complexes from <i>Rhodospseudomonas acidophila</i> , strain 10050. <i>FEBS Letters</i> , 1999, 449, 269-272.         | 1.3 | 28        |
| 100 | Solvation Effect of Bacteriochlorophyll Excitons in Light-Harvesting Complex LH2. <i>Biophysical Journal</i> , 2007, 93, 2188-2198.   | 0.2 | 28        |
| 101 | Resonance Raman spectroscopy of the B820 subunit of the core antenna from <i>Rhodospirillum rubrum</i> C9. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1183, 369-373.  | 0.5 | 27        |
| 102 | Symmetric Structural Features and Binding Site of the Primary Electron Donor in the Reaction Center of <i>Chlorobium</i> . <i>Biochemistry</i> , 1995, 34, 11099-11105.   | 1.2 | 27        |
| 103 | The Effect of Pressure on the Bacteriochlorophylla Binding Sites of the Core Antenna Complex from <i>Rhodospirillum rubrum</i> . <i>Biochemistry</i> , 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. <i>Physical Chemistry Chemical Physics</i> , 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. <i>Biochemical Journal</i> , 2000, 351, 567-578.   | 1.7 | 26        |
| 106 | Energy Transfer and Trapping in Red-Chlorophyll-Free Photosystem I from <i>Synechococcus</i> WH 7803. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11176-11183.  | 1.2 | 26        |
| 107 | Origin of Absorption Changes Associated with Photoprotective Energy Dissipation in the Absence of Zeaxanthin. <i>Journal of Biological Chemistry</i> , 2011, 286, 91-98.  | 1.6 | 25        |
| 108 | Biochemical and Spectroscopic Characterization of the B800-850 Light-Harvesting Complex from <i>Rhodobacter sulfidophilus</i> and Its B800-830 Spectral Form. <i>Biochemistry</i> , 1995, 34, 10519-10524.                              | 1.2 | 24        |



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



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