

James N Sturgis

List of Publications by Year in descending order

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97
papers

5,169
citations

81900

39
h-index

91884

69
g-index

99
all docs

99
docs citations

99
times ranked

4752
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Experimental evidence for long-distance electrodynamic intermolecular forces. <i>Science Advances</i> , 2022, 8, eabl5855. | 10.3 | 19 |
| 2 | High-speed atomic force microscopy highlights new molecular mechanism of daptomycin action. <i>Nature Communications</i> , 2020, 11, 6312. | 12.8 | 26 |
| 3 | Comparison of the Energy-Transfer Rates in Structural and Spectral Variants of the B800â€“850 Complex from Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1460-1469. | 2.6 | 11 |
| 4 | The lipid environment of Escherichia coli Aquaporin Z. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 431-440. | 2.6 | 33 |
| 5 | Modifying styrene-maleic acid co-polymer for studying lipid nanodiscs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 777-783. | 2.6 | 34 |
| 6 | Out-of-Equilibrium Collective Oscillation as Phonon Condensation in a Model Protein. <i>Physical Review X</i> , 2018, 8, . | 8.9 | 26 |
| 7 | Modifying Styrene-maleic Acid Co-polymer for Studying Lipid Nanodiscs by Direct Fluorescent Labeling. <i>Bio-protocol</i> , 2018, 8, e2969. | 0.4 | 1 |
| 8 | Making Monomeric Aquaporin Z by Disrupting the Hydrophobic Tetramer Interface. <i>ACS Omega</i> , 2017, 2, 3017-3027. | 3.5 | 17 |
| 9 | Lipid perturbation by membrane proteins and the lipophobic effect. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 126-134. | 2.6 | 15 |
| 10 | Membrane Protein Solubilization and Composition of Protein Detergent Complexes. <i>Methods in Molecular Biology</i> , 2016, 1432, 243-260. | 0.9 | 8 |
| 11 | Destabilizing Aquaporin Z Assembly: Effects on Structure, Function and Dynamics. <i>Biophysical Journal</i> , 2015, 108, 499a-500a. | 0.5 | 0 |
| 12 | Transmembrane Recognition of the Semaphorin Co-Receptors Neuropilin 1 and Plexin A1: Coarse-Grained Simulations. <i>PLoS ONE</i> , 2014, 9, e97779. | 2.5 | 24 |
| 13 | Evidence for New Homotypic and Heterotypic Interactions between Transmembrane Helices of Proteins Involved in Receptor Tyrosine Kinase and Neuropilin Signaling. <i>Journal of Molecular Biology</i> , 2014, 426, 4099-4111. | 4.2 | 33 |
| 14 | Ultrafast excited state processes in Roseobacter denitrificans antennae: comparison of isolated complexes and native membranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26059-26066. | 2.8 | 3 |
| 15 | The architecture of Rhodobacter sphaeroides chromatophores. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1263-1270. | 1.0 | 36 |
| 16 | Molecular Mechanisms of Tau Binding to Microtubule and its Role in Microtubule Dynamics in Live Cells. <i>Journal of Cell Science</i> , 2013, 126, 2810-9. | 2.0 | 43 |
| 17 | Lateral organization of biological membranes. <i>European Biophysics Journal</i> , 2013, 42, 843-850. | 2.2 | 13 |
| 18 | Shotgun Genome Sequence of the Large Purple Photosynthetic Bacterium Rhodospirillum photometricum DSM122. <i>Journal of Bacteriology</i> , 2012, 194, 2380-2380. | 2.2 | 7 |

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|----|---|------|-----------|
| 19 | Draft Genome Sequence of the Purple Photosynthetic Bacterium <i>Phaeospirillum molischianum</i> DSM120, a Particularly Versatile Bacterium. <i>Journal of Bacteriology</i> , 2012, 194, 3559-3560. | 2.2 | 8 |
| 20 | Characterization of the motion of membrane proteins using high-speed atomic force microscopy. <i>Nature Nanotechnology</i> , 2012, 7, 525-529. | 31.5 | 184 |
| 21 | Molecular Origins and Consequences of High-800 LH2 in <i>Roseobacter denitrificans</i> . <i>Biochemistry</i> , 2011, 50, 6723-6729. | 2.5 | 6 |
| 22 | Peptide-Dominated Vesicles: Bacterial Internal Membrane Compartments as Model Systems for Prebiotic Evolution. , 2011, , 167-181. | | 1 |
| 23 | Native architecture of the photosynthetic membrane from <i>Rhodobacter veldkampii</i> . <i>Journal of Structural Biology</i> , 2011, 173, 138-145. | 2.8 | 38 |
| 24 | The effects of protein crowding in bacterial photosynthetic membranes on the flow of quinone redox species between the photochemical reaction center and the ubiquinol-cytochrome c2 oxidoreductase. <i>Metallomics</i> , 2011, 3, 765. | 2.4 | 20 |
| 25 | Antagonistic regulation of <i>dgkA</i> and <i>plsB</i> genes of phospholipid synthesis by multiple stress responses in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2011, 80, 1260-1275. | 2.5 | 39 |
| 26 | Structure of a protein-detergent complex: the balance between detergent cohesion and binding. <i>European Biophysics Journal</i> , 2011, 40, 1143-1155. | 2.2 | 9 |
| 27 | Forces guiding assembly of light-harvesting complex 2 in native membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9455-9459. | 7.1 | 51 |
| 28 | Antenna mixing in photosynthetic membranes from <i>Phaeospirillum molischianum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5357-5362. | 7.1 | 31 |
| 29 | Single-spanning transmembrane domains in cell growth and cell-cell interactions. <i>Cell Adhesion and Migration</i> , 2010, 4, 313-324. | 2.7 | 78 |
| 30 | Membrane Protein Solubilization. <i>Methods in Molecular Biology</i> , 2010, 601, 205-217. | 0.9 | 47 |
| 31 | Dissecting membrane protein architecture: An annotation of structural complexity. <i>Biopolymers</i> , 2009, 91, 815-829. | 2.4 | 15 |
| 32 | Atomic force microscopy of the bacterial photosynthetic apparatus: plain pictures of an elaborate machinery. <i>Photosynthesis Research</i> , 2009, 102, 197-211. | 2.9 | 73 |
| 33 | Tagging of <i>Escherichia coli</i> proteins with new cassettes allowing <i>in vivo</i> systematic fluorescent and luminescent detection, and purification from physiological expression levels. <i>Proteomics</i> , 2009, 9, 5389-5393. | 2.2 | 3 |
| 34 | High-resolution architecture of the outer membrane of the Gram-negative bacteria <i>Roseobacter denitrificans</i> . <i>Molecular Microbiology</i> , 2009, 74, 1211-1222. | 2.5 | 68 |
| 35 | Lid Opening and Unfolding in Human Pancreatic Lipase at Low pH Revealed by Site-Directed Spin Labeling EPR and FTIR Spectroscopy. <i>Biochemistry</i> , 2009, 48, 630-638. | 2.5 | 36 |
| 36 | Quinone Pathways in Entire Photosynthetic Chromatophores of <i>Rhodospirillum rubrum</i> . <i>Journal of Molecular Biology</i> , 2009, 393, 27-35. | 4.2 | 30 |

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|----|--|------|-----------|
| 37 | Structural Information, Resolution, and Noise in High-Resolution Atomic Force Microscopy Topographs. <i>Biophysical Journal</i> , 2009, 96, 3822-3831. | 0.5 | 51 |
| 38 | Energy Transfer in Light-Adapted Photosynthetic Membranes: From Active to Saturated Photosynthesis. <i>Biophysical Journal</i> , 2009, 97, 2464-2473. | 0.5 | 54 |
| 39 | Atomic Force Microscopy Studies of Native Photosynthetic Membranes. <i>Biochemistry</i> , 2009, 48, 3679-3698. | 2.5 | 88 |
| 40 | Organization and Assembly of Light-Harvesting Complexes in the Purple Bacterial Membrane. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 253-273. | 1.0 | 12 |
| 41 | Atomic force microscopy reveals multiple patterns of antenna organization in purple bacteria: implications for energy transduction mechanisms and membrane modeling. <i>Photosynthesis Research</i> , 2008, 95, 269-278. | 2.9 | 37 |
| 42 | The TolQ-TolR proteins energize TolA and share homologies with the flagellar motor proteins $\hat{\text{a}}\text{c}^{\text{M}}\text{otA-MotB}$. <i>Molecular Microbiology</i> , 2008, 42, 795-807. | 2.5 | 177 |
| 43 | Organisation and function of the <i>Phaeospirillum molischianum</i> photosynthetic apparatus. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 1552-1559. | 1.0 | 19 |
| 44 | From high-resolution AFM topographs to atomic models of supramolecular assemblies. <i>Journal of Structural Biology</i> , 2007, 159, 268-276. | 2.8 | 70 |
| 45 | Supramolecular Assembly of VDAC in Native Mitochondrial Outer Membranes. <i>Journal of Molecular Biology</i> , 2007, 369, 413-418. | 4.2 | 133 |
| 46 | Rows of ATP Synthase Dimers in Native Mitochondrial Inner Membranes. <i>Biophysical Journal</i> , 2007, 93, 2870-2876. | 0.5 | 85 |
| 47 | A Dimerization Hierarchy in the Transmembrane Domains of the HER Receptor Family. <i>Biochemistry</i> , 2007, 46, 2010-2019. | 2.5 | 67 |
| 48 | Dynamics and Diffusion in Photosynthetic Membranes from <i>Rhodospirillum rubrum</i> . <i>Biophysical Journal</i> , 2006, 91, 3707-3717. | 0.5 | 38 |
| 49 | Confined diffusion in tubular structures analyzed by fluorescence correlation spectroscopy on a mirror. <i>Applied Optics</i> , 2006, 45, 4497. | 2.1 | 9 |
| 50 | The Photosynthetic Apparatus of <i>Rhodospseudomonas palustris</i> : Structures and Organization. <i>Journal of Molecular Biology</i> , 2006, 358, 83-96. | 4.2 | 130 |
| 51 | Ptuba: a tool for the visualization of helix surfaces in proteins. <i>Journal of Molecular Graphics and Modelling</i> , 2005, 23, 305-315. | 2.4 | 9 |
| 52 | Chromatic Adaptation of Photosynthetic Membranes. <i>Science</i> , 2005, 309, 484-487. | 12.6 | 269 |
| 53 | Architecture of the native photosynthetic apparatus of <i>Phaeospirillum molischianum</i> . <i>Journal of Structural Biology</i> , 2005, 152, 221-228. | 2.8 | 78 |
| 54 | Watching the photosynthetic apparatus in native membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11293-11297. | 7.1 | 169 |

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|----|--|------|-----------|
| 55 | Two Distinct crt Gene Clusters for Two Different Functional Classes of Carotenoid in Bradyrhizobium. <i>Journal of Biological Chemistry</i> , 2004, 279, 15076-15083. | 3.4 | 43 |
| 56 | Regulatory circuits and communication in Gram-negative bacteria. <i>Nature Reviews Microbiology</i> , 2004, 2, 581-592. | 28.6 | 204 |
| 57 | Variable LH2 stoichiometry and core clustering in native membranes of <i>Rhodospirillum rubrum</i> . <i>EMBO Journal</i> , 2004, 23, 4127-4133. | 7.8 | 140 |
| 58 | Hydrophobic Pockets at the Membrane Interface: An Original Mechanism for Membrane Protein Interactions. <i>Biochemistry</i> , 2004, 43, 1276-1282. | 2.5 | 15 |
| 59 | Dimerization of the quorum sensing regulator RhIR: development of a method using EGFP fluorescence anisotropy. <i>Molecular Microbiology</i> , 2003, 48, 187-198. | 2.5 | 63 |
| 60 | Interactions of the quorum sensing regulator QscR: interaction with itself and the other regulators of <i>Pseudomonas aeruginosa</i> LasR and RhIR. <i>Molecular Microbiology</i> , 2003, 48, 199-210. | 2.5 | 170 |
| 61 | Type II Protein Secretion in <i>Pseudomonas aeruginosa</i> : the Pseudopilus Is a Multifibrillar and Adhesive Structure. <i>Journal of Bacteriology</i> , 2003, 185, 2749-2758. | 2.2 | 144 |
| 62 | Effect of Detergents on the Association of the Glycophorin A Transmembrane Helix. <i>Biophysical Journal</i> , 2003, 85, 3097-3105. | 0.5 | 123 |
| 63 | 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. | 2.5 | 36 |
| 64 | Discovery of a Tat HIV-1 Inhibitor through Computer-Aided Drug Design. <i>Spectroscopy</i> , 2003, 17, 639-645. | 0.8 | 8 |
| 65 | Two β -rich structural domains in GABA _A receptor $\alpha 1$ subunit with different physical properties: Evidence for multidomain nature of the receptor. <i>Protein Science</i> , 2002, 11, 2052-2058. | 7.6 | 3 |
| 66 | Isolation, Size Estimates, and Spectral Heterogeneity of an Oligomeric Series of Light-Harvesting 1 Complexes from <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 2002, 41, 8698-8707. | 2.5 | 44 |
| 67 | <i>Escherichia coli</i> ykfE ORF _n Gene Encodes a Potent Inhibitor of C-type Lysozyme. <i>Journal of Biological Chemistry</i> , 2001, 276, 18437-18441. | 3.4 | 105 |
| 68 | Revisiting the Specificity of <i>Mamestra brassicae</i> and <i>Antheraea polyphemus</i> Pheromone-binding Proteins with a Fluorescence Binding Assay. <i>Journal of Biological Chemistry</i> , 2001, 276, 20078-20084. | 3.4 | 217 |
| 69 | Reevaluation of the Electrophoretic Migration Behavior of Soluble Globular Proteins in the Native and Detergent-Denatured States in Polyacrylamide Gels. <i>Analytical Biochemistry</i> , 2000, 284, 143-152. | 2.4 | 37 |
| 70 | Proton motive force drives the interaction of the inner membrane TolA and outer membrane Pal proteins in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2000, 38, 904-915. | 2.5 | 139 |
| 71 | ¹ H- ¹³ C nuclear magnetic resonance assignment and structural characterization of HIV-1 Tat protein. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 2000, 323, 883-894. | 0.8 | 63 |
| 72 | Exchanging Cofactors in the Core Antennae from Purple Bacteria: Structure and Properties of Zn ²⁺ -Bacteriopheophytin-Containing LH1. <i>Biochemistry</i> , 2000, 39, 1091-1099. | 2.5 | 21 |

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|----|--|-----|-----------|
| 73 | Conformation of Bacteriochlorophyll Molecules in Photosynthetic Proteins from Purple Bacteria. <i>Biochemistry</i> , 1999, 38, 11115-11121. | 2.5 | 43 |
| 74 | Detergents modulate dimerization, but not helicity, of the glycoprotein A transmembrane domain 1 Edited by G. von Heijne. <i>Journal of Molecular Biology</i> , 1999, 293, 639-651. | 4.2 | 175 |
| 75 | Heterologous expression of genes encoding bacterial light-harvesting complex II in <i>Rhodobacter capsulatus</i> and <i>Rhodovulum sulfidophilum</i> . <i>Microbiological Research</i> , 1998, 153, 189-204. | 5.3 | 10 |
| 76 | Non-bonding molecular factors influencing the stretching wavenumbers of the conjugated carbonyl groups of bacteriochlorophylls. <i>Journal of Raman Spectroscopy</i> , 1998, 29, 977-981. | 2.5 | 30 |
| 77 | The Effect of Pressure on the Bacteriochlorophyll Binding Sites of the Core Antenna Complex from <i>Rhodospirillum rubrum</i> . <i>Biochemistry</i> , 1998, 37, 14875-14880. | 2.5 | 27 |
| 78 | Hydrogen Bonding and Circular Dichroism of Bacteriochlorophylls in the <i>Rhodobacter capsulatus</i> Light-Harvesting 2 Complex Altered by Combinatorial Mutagenesis. <i>Biochemistry</i> , 1998, 37, 10006-10015. | 2.5 | 12 |
| 79 | Transmembrane Helix Stability: The Effect of Helix-Helix Interactions Studied by Fourier Transform Infrared Spectroscopy. <i>Biophysical Journal</i> , 1998, 74, 988-994. | 0.5 | 23 |
| 80 | Altered Bacteriochlorophyll Associations in Combinatorial Mutants of the <i>Rhodobacter Capsulatus</i> Light Harvesting 2 Complex. , 1998, , 73-76. | | 0 |
| 81 | Pigment Binding-Site and Electronic Properties in Light-Harvesting Proteins of Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7227-7231. | 2.6 | 69 |
| 82 | Functions of Conserved Tryptophan Residues of the Core Light-Harvesting Complex of <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 1997, 36, 2772-2778. | 2.5 | 94 |
| 83 | Membrane-Associated c-type Cytochromes from the Green Sulfur Bacterium <i>Chlorobium limicolaformathiosulfatophilum</i> : Purification and Characterization of Cytochrome c553. <i>Biochemistry</i> , 1997, 36, 1927-1932. | 2.5 | 16 |
| 84 | Conformational flexibility and polymerization of vesicular stomatitis virus matrix protein. <i>Journal of Molecular Biology</i> , 1997, 274, 816-825. | 4.2 | 33 |
| 85 | 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. | 2.5 | 38 |
| 86 | The effect of different levels of the B800-850 light-harvesting complex on intracytoplasmic membrane development in <i>Rhodobacter sphaeroides</i> . <i>Archives of Microbiology</i> , 1996, 165, 235-242. | 2.2 | 34 |
| 87 | The effects of the detergent LDAO on the carotenoid metabolism and growth of <i>Rhodovulum sulfidophilum</i> . <i>Microbiological Research</i> , 1996, 151, 421-426. | 5.3 | 2 |
| 88 | 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. | 2.9 | 44 |
| 89 | Structure and Properties of the Bacteriochlorophyll Binding Site in Peripheral Light-Harvesting Complexes of Purple Bacteria. <i>Biochemistry</i> , 1995, 34, 517-523. | 2.5 | 76 |
| 90 | 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. | 2.5 | 24 |

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|----|--|-----|-----------|
| 91 | Thermodynamics of Membrane Polypeptide Oligomerization in Light-harvesting Complexes and Associated Structural Changes. <i>Journal of Molecular Biology</i> , 1994, 238, 445-454. | 4.2 | 82 |
| 92 | Acid denaturation of the B875 light-harvesting complex in membranes of <i>Rhodobacter sphaeroides</i> . <i>Photosynthesis Research</i> , 1990, 23, 241-248. | 2.9 | 7 |
| 93 | Assembly of Intracytoplasmic Membranes in <i>Rhodobacter Sphaeroides</i> Mutants Lacking Light-Harvesting and Reaction Center Complexes. , 1990, , 219-226. | | 2 |
| 94 | Role of B800â€“850 Light-Harvesting Pigment-Protein Complex in the Morphogenesis of <i>Rhodobacter sphaeroides</i> Membranes. , 1990, , 1017-1020. | | 2 |
| 95 | SPECTRA AND EXTINCTION COEFFICIENTS OF NEARâ€“INFRARED ABSORPTION BANDS IN MEMBRANES OF <i>Rhodobacter sphaeroides</i> MUTANTS LACKING LIGHTâ€“HARVESTING AND REACTION CENTER COMPLEXES. <i>Photochemistry and Photobiology</i> , 1988, 48, 243-247. | 2.5 | 43 |
| 96 | Oligomerization states and associations of light-harvesting pigment-protein complexes of <i>Rhodobacter sphaeroides</i> as analyzed by lithium dodecyl sulfate-polyacrylamide gel electrophoresis. <i>Biochemistry</i> , 1988, 27, 3459-3467. | 2.5 | 126 |
| 97 | Making dimers of oligomeric membrane proteins using copper-free click chemistry. <i>F1000Research</i> , 0, 5, 1061. | 1.6 | 0 |