

James N Sturgis

List of Publications by Year in descending order

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81900

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69
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99
all docs

99
docs citations

99
times ranked

4752
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromatic Adaptation of Photosynthetic Membranes. <i>Science</i> , 2005, 309, 484-487.	12.6	269
2	Revisiting the Specificity of Mamestra brassicae and Antheraea polyphemus Pheromone-binding Proteins with a Fluorescence Binding Assay. <i>Journal of Biological Chemistry</i> , 2001, 276, 20078-20084.	3.4	217
3	Regulatory circuits and communication in Gram-negative bacteria. <i>Nature Reviews Microbiology</i> , 2004, 2, 581-592.	28.6	204
4	Characterization of the motion of membrane proteins using high-speed atomic force microscopy. <i>Nature Nanotechnology</i> , 2012, 7, 525-529.	31.5	184
5	The TolQ-TolR proteins energize TolA and share homologies with the flagellar motor proteins \hat{a} MotA-MotB. <i>Molecular Microbiology</i> , 2008, 42, 795-807.	2.5	177
6	Detergents modulate dimerization, but not helicity, of the glycophorin A transmembrane domain 1 Edited by G. von Heijne. <i>Journal of Molecular Biology</i> , 1999, 293, 639-651.	4.2	175
7	Interactions of the quorum sensing regulator QscR: interaction with itself and the other regulators of <i>Pseudomonas aeruginosa</i> LasR and RhlR. <i>Molecular Microbiology</i> , 2003, 48, 199-210.	2.5	170
8	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
9	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
10	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
11	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
12	Supramolecular Assembly of VDAC in Native Mitochondrial Outer Membranes. <i>Journal of Molecular Biology</i> , 2007, 369, 413-418.	4.2	133
13	The Photosynthetic Apparatus of <i>Rhodospseudomonas palustris</i> : Structures and Organization. <i>Journal of Molecular Biology</i> , 2006, 358, 83-96.	4.2	130
14	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
15	Effect of Detergents on the Association of the Glycophorin A Transmembrane Helix. <i>Biophysical Journal</i> , 2003, 85, 3097-3105.	0.5	123
16	<i>Escherichia coli</i> ykfE ORF gene Encodes a Potent Inhibitor of C-type Lysozyme. <i>Journal of Biological Chemistry</i> , 2001, 276, 18437-18441.	3.4	105
17	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
18	Atomic Force Microscopy Studies of Native Photosynthetic Membranes. <i>Biochemistry</i> , 2009, 48, 3679-3698.	2.5	88

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19	Rows of ATP Synthase Dimers in Native Mitochondrial Inner Membranes. <i>Biophysical Journal</i> , 2007, 93, 2870-2876.	0.5	85
20	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
21	Architecture of the native photosynthetic apparatus of <i>Phaeospirillum molischianum</i> . <i>Journal of Structural Biology</i> , 2005, 152, 221-228.	2.8	78
22	Single-spanning transmembrane domains in cell growth and cell-cell interactions. <i>Cell Adhesion and Migration</i> , 2010, 4, 313-324.	2.7	78
23	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
24	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
25	From high-resolution AFM topographs to atomic models of supramolecular assemblies. <i>Journal of Structural Biology</i> , 2007, 159, 268-276.	2.8	70
26	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
27	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
28	A Dimerization Hierarchy in the Transmembrane Domains of the HER Receptor Family. <i>Biochemistry</i> , 2007, 46, 2010-2019.	2.5	67
29	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
30	Dimerization of the quorum sensing regulator RhlR: development of a method using EGFP fluorescence anisotropy. <i>Molecular Microbiology</i> , 2003, 48, 187-198.	2.5	63
31	Energy Transfer in Light-Adapted Photosynthetic Membranes: From Active to Saturated Photosynthesis. <i>Biophysical Journal</i> , 2009, 97, 2464-2473.	0.5	54
32	Structural Information, Resolution, and Noise in High-Resolution Atomic Force Microscopy Topographs. <i>Biophysical Journal</i> , 2009, 96, 3822-3831.	0.5	51
33	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
34	Membrane Protein Solubilization. <i>Methods in Molecular Biology</i> , 2010, 601, 205-217.	0.9	47
35	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
36	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

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37	SPECTRA AND EXTINCTION COEFFICIENTS OF NEAR-INFRARED ABSORPTION BANDS IN MEMBRANES OF <i>Rhodobacter sphaeroides</i> MUTANTS LACKING LIGHT-HARVESTING AND REACTION CENTER COMPLEXES. <i>Photochemistry and Photobiology</i> , 1988, 48, 243-247.	2.5	43
38	Conformation of Bacteriochlorophyll Molecules in Photosynthetic Proteins from Purple Bacteria. <i>Biochemistry</i> , 1999, 38, 11115-11121.	2.5	43
39	Two Distinct crt Gene Clusters for Two Different Functional Classes of Carotenoid in <i>Bradyrhizobium</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 15076-15083.	3.4	43
40	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
41	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
42	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
43	Dynamics and Diffusion in Photosynthetic Membranes from <i>Rhodospirillum rubrum</i> . <i>Biophysical Journal</i> , 2006, 91, 3707-3717.	0.5	38
44	Native architecture of the photosynthetic membrane from <i>Rhodobacter veldkampii</i> . <i>Journal of Structural Biology</i> , 2011, 173, 138-145.	2.8	38
45	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
46	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
47	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
48	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
49	The architecture of <i>Rhodobacter sphaeroides</i> chromatophores. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1263-1270.	1.0	36
50	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
51	Modifying styrene-maleic acid co-polymer for studying lipid nanodiscs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 777-783.	2.6	34
52	Conformational flexibility and polymerization of vesicular stomatitis virus matrix protein. <i>Journal of Molecular Biology</i> , 1997, 274, 816-825.	4.2	33
53	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
54	The lipid environment of <i>Escherichia coli</i> Aquaporin Z. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 431-440.	2.6	33

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55	Antenna mixing in photosynthetic membranes from <i>Phaeospirillum molischianum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5357-5362.	7.1	31
56	Non-bonding molecular factors influencing the stretching wavenumbers of the conjugated carbonyl groups of bacteriochlorophylla. Journal of Raman Spectroscopy, 1998, 29, 977-981.	2.5	30
57	Quinone Pathways in Entire Photosynthetic Chromatophores of <i>Rhodospirillum rubrum</i> . Journal of Molecular Biology, 2009, 393, 27-35.	4.2	30
58	The Effect of Pressure on the Bacteriochlorophylla Binding Sites of the Core Antenna Complex from <i>Rhodospirillum rubrum</i> . Biochemistry, 1998, 37, 14875-14880.	2.5	27
59	Out-of-Equilibrium Collective Oscillation as Phonon Condensation in a Model Protein. Physical Review X, 2018, 8, .	8.9	26
60	High-speed atomic force microscopy highlights new molecular mechanism of daptomycin action. Nature Communications, 2020, 11, 6312.	12.8	26
61	Biochemical and Spectroscopic Characterization of the B800-850 Light-Harvesting Complex from <i>Rhodospirillum rubrum</i> and Its B800-830 Spectral Form. Biochemistry, 1995, 34, 10519-10524.	2.5	24
62	Transmembrane Recognition of the Semaphorin Co-Receptors Neuropilin 1 and Plexin A1: Coarse-Grained Simulations. PLoS ONE, 2014, 9, e97779.	2.5	24
63	Transmembrane Helix Stability: The Effect of Helix-Helix Interactions Studied by Fourier Transform Infrared Spectroscopy. Biophysical Journal, 1998, 74, 988-994.	0.5	23
64	Exchanging Cofactors in the Core Antennae from Purple Bacteria: Structure and Properties of Zn ²⁺ -Bacteriopheophytin-Containing LH1. Biochemistry, 2000, 39, 1091-1099.	2.5	21
65	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. Metallomics, 2011, 3, 765.	2.4	20
66	Organisation and function of the <i>Phaeospirillum molischianum</i> photosynthetic apparatus. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1552-1559.	1.0	19
67	Experimental evidence for long-distance electrodynamic intermolecular forces. Science Advances, 2022, 8, eabl5855.	10.3	19
68	Making Monomeric Aquaporin Z by Disrupting the Hydrophobic Tetramer Interface. ACS Omega, 2017, 2, 3017-3027.	3.5	17
69	Membrane-Associated c-type Cytochromes from the Green Sulfur Bacterium <i>Chlorobium limicola</i> formosulfatophilum: Purification and Characterization of Cytochrome c553. Biochemistry, 1997, 36, 1927-1932.	2.5	16
70	Hydrophobic Pockets at the Membrane Interface: An Original Mechanism for Membrane Protein Interactions. Biochemistry, 2004, 43, 1276-1282.	2.5	15
71	Dissecting membrane protein architecture: An annotation of structural complexity. Biopolymers, 2009, 91, 815-829.	2.4	15
72	Lipid perturbation by membrane proteins and the lipophobic effect. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 126-134.	2.6	15

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73	Lateral organization of biological membranes. <i>European Biophysics Journal</i> , 2013, 42, 843-850.	2.2	13
74	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
75	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
76	Comparison of the Energy-Transfer Rates in Structural and Spectral Variants of the B800 α 850 Complex from Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1460-1469.	2.6	11
77	Heterologous expression of genes encoding bacterial light-harvesting complex II in <i>Rhodobacter capsulatus</i> and <i>Rhodovulum sulfophilum</i> . <i>Microbiological Research</i> , 1998, 153, 189-204.	5.3	10
78	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
79	Confined diffusion in tubular structures analyzed by fluorescence correlation spectroscopy on a mirror. <i>Applied Optics</i> , 2006, 45, 4497.	2.1	9
80	Structure of a protein α detergent complex: the balance between detergent cohesion and binding. <i>European Biophysics Journal</i> , 2011, 40, 1143-1155.	2.2	9
81	Discovery of a Tat HIV-1 Inhibitor through Computer-Aided Drug Design. <i>Spectroscopy</i> , 2003, 17, 639-645.	0.8	8
82	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
83	Membrane Protein Solubilization and Composition of Protein Detergent Complexes. <i>Methods in Molecular Biology</i> , 2016, 1432, 243-260.	0.9	8
84	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
85	Shotgun Genome Sequence of the Large Purple Photosynthetic Bacterium <i>Rhodospirillum photometricum</i> DSM122. <i>Journal of Bacteriology</i> , 2012, 194, 2380-2380.	2.2	7
86	Molecular Origins and Consequences of High-800 LH2 in <i>Roseobacter denitrificans</i> . <i>Biochemistry</i> , 2011, 50, 6723-6729.	2.5	6
87	Two β -rich structural domains in GABA α 1 subunit with different physical properties: Evidence for multidomain nature of the receptor. <i>Protein Science</i> , 2002, 11, 2052-2058.	7.6	3
88	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
89	Ultrafast excited state processes in <i>Roseobacter denitrificans</i> antennae: comparison of isolated complexes and native membranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26059-26066.	2.8	3
90	The effects of the detergent LDAO on the carotenoid metabolism and growth of <i>Rhodovulum sulfophilum</i> . <i>Microbiological Research</i> , 1996, 151, 421-426.	5.3	2

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91	Assembly of Intracytoplasmic Membranes in Rhodobacter Sphaeroides Mutants Lacking Light-Harvesting and Reaction Center Complexes. , 1990, , 219-226.		2
92	Role of B800â€“850 Light-Harvesting Pigment-Protein Complex in the Morphogenesis of Rhodobacter sphaeroides Membranes. , 1990, , 1017-1020.		2
93	Peptide-Dominated Vesicles: Bacterial Internal Membrane Compartments as Model Systems for Prebiotic Evolution. , 2011, , 167-181.		1
94	Modifying Styrene-maleic Acid Co-polymer for Studying Lipid Nanodiscs by Direct Fluorescent Labeling. Bio-protocol, 2018, 8, e2969.	0.4	1
95	Destabilizing Aquaporin Z Assembly: Effects on Structure, Function and Dynamics. Biophysical Journal, 2015, 108, 499a-500a.	0.5	0
96	Altered Bacteriochlorophyll Associations in Combinatorial Mutants of the Rhodobacter Capsulatus Light Harvesting 2 Complex. , 1998, , 73-76.		0
97	Making dimers of oligomeric membrane proteins using copper-free click chemistry. F1000Research, 0, 5, 1061.	1.6	0