

Stephen H White

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149
papers

18,742
citations

63
h-index

136
g-index

181
ext. papers

19,931
ext. citations

7
avg, IF

6.8
L-index

#	Paper	IF	Citations
149	Membrane protein folding and stability: physical principles. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1999 , 28, 319-65		1468
148	Experimentally determined hydrophobicity scale for proteins at membrane interfaces. <i>Nature Structural and Molecular Biology</i> , 1996 , 3, 842-8	17.6	1366
147	A comprehensive classification system for lipids. <i>Journal of Lipid Research</i> , 2005 , 46, 839-61	6.3	1060
146	The preference of tryptophan for membrane interfaces. <i>Biochemistry</i> , 1998 , 37, 14713-8	3.2	829
145	Recognition of transmembrane helices by the endoplasmic reticulum translocon. <i>Nature</i> , 2005 , 433, 377-81	31.4	801
144	Structure of a fluid dioleoylphosphatidylcholine bilayer determined by joint refinement of x-ray and neutron diffraction data. III. Complete structure. <i>Biophysical Journal</i> , 1992 , 61, 434-47	2.9	585
143	Molecular code for transmembrane-helix recognition by the Sec61 translocon. <i>Nature</i> , 2007 , 450, 1026-30	30.4	545
142	Solvation energies of amino acid side chains and backbone in a family of host-guest pentapeptides. <i>Biochemistry</i> , 1996 , 35, 5109-24	3.2	475
141	The nature of the hydrophobic binding of small peptides at the bilayer interface: implications for the insertion of transbilayer helices. <i>Biochemistry</i> , 1989 , 28, 3421-37	3.2	437
140	Hydrophobic interactions of peptides with membrane interfaces. <i>BBA - Biomembranes</i> , 1998 , 1376, 339-52		428
139	How to measure and analyze tryptophan fluorescence in membranes properly, and why bother?. <i>Analytical Biochemistry</i> , 2000 , 285, 235-45	3.1	368
138	Structure, function, and membrane integration of defensins. <i>Current Opinion in Structural Biology</i> , 1995 , 5, 521-7	8.1	357
137	Interactions between human defensins and lipid bilayers: evidence for formation of multimeric pores. <i>Protein Science</i> , 1994 , 3, 1362-73	6.3	321
136	Structure of lamellar lipid domains and corneocyte envelopes of murine stratum corneum. An X-ray diffraction study. <i>Biochemistry</i> , 1988 , 27, 3725-32	3.2	319
135	Folding of amphipathic alpha-helices on membranes: energetics of helix formation by melittin. <i>Journal of Molecular Biology</i> , 1999 , 285, 1363-9	6.5	291
134	How membranes shape protein structure. <i>Journal of Biological Chemistry</i> , 2001 , 276, 32395-8	5.4	255
133	Membrane structures in normal and essential fatty acid-deficient stratum corneum: characterization by ruthenium tetroxide staining and x-ray diffraction. <i>Journal of Investigative Dermatology</i> , 1991 , 96, 215-23	4.3	252

132	The progress of membrane protein structure determination. <i>Protein Science</i> , 2004 , 13, 1948-9	6.3	248
131	Structure, location, and lipid perturbations of melittin at the membrane interface. <i>Biophysical Journal</i> , 2001 , 80, 801-11	2.9	245
130	Biophysical dissection of membrane proteins. <i>Nature</i> , 2009 , 459, 344-6	50.4	223
129	Mechanisms of integral membrane protein insertion and folding. <i>Journal of Molecular Biology</i> , 2015 , 427, 999-1022	6.5	221
128	Energetics, stability, and prediction of transmembrane helices. <i>Journal of Molecular Biology</i> , 2001 , 312, 927-34	6.5	211
127	Protein folding in membranes: determining energetics of peptide-bilayer interactions. <i>Methods in Enzymology</i> , 1998 , 295, 62-87	1.7	208
126	Membrane partitioning: distinguishing bilayer effects from the hydrophobic effect. <i>Biochemistry</i> , 1993 , 32, 6307-12	3.2	201
125	MPEX: a tool for exploring membrane proteins. <i>Protein Science</i> , 2009 , 18, 2624-8	6.3	196
124	Interface connections of a transmembrane voltage sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15059-64	11.5	192
123	Detergent-like permeabilization of anionic lipid vesicles by melittin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001 , 1514, 253-60	3.8	191
122	Folding of beta-sheet membrane proteins: a hydrophobic hexapeptide model. <i>Journal of Molecular Biology</i> , 1998 , 277, 1091-110	6.5	188
121	An amphipathic alpha-helix at a membrane interface: a structural study using a novel X-ray diffraction method. <i>Journal of Molecular Biology</i> , 1999 , 290, 99-117	6.5	178
120	Peptides in lipid bilayers: structural and thermodynamic basis for partitioning and folding. <i>Current Opinion in Structural Biology</i> , 1994 , 4, 79-86	8.1	173
119	Structure and hydration of membranes embedded with voltage-sensing domains. <i>Nature</i> , 2009 , 462, 473-9	50.4	166
118	How translocons select transmembrane helices. <i>Annual Review of Biophysics</i> , 2008 , 37, 23-42	21.1	164
117	Membrane insertion of a potassium-channel voltage sensor. <i>Science</i> , 2005 , 307, 1427	33.3	158
116	MPtopo: A database of membrane protein topology. <i>Protein Science</i> , 2001 , 10, 455-8	6.3	150
115	Bilayer interactions of indolicidin, a small antimicrobial peptide rich in tryptophan, proline, and basic amino acids. <i>Biophysical Journal</i> , 1997 , 72, 794-805	2.9	148

114	Determination of the hydrocarbon core structure of fluid dioleoylphosphocholine (DOPC) bilayers by x-ray diffraction using specific bromination of the double-bonds: effect of hydration. <i>Biophysical Journal</i> , 1998 , 74, 2419-33	2.9	146
113	Experimental validation of molecular dynamics simulations of lipid bilayers: a new approach. <i>Biophysical Journal</i> , 2005 , 88, 805-17	2.9	144
112	Folding amphipathic helices into membranes: amphiphilicity trumps hydrophobicity. <i>Journal of Molecular Biology</i> , 2007 , 370, 459-70	6.5	129
111	A study of lipid bilayer membrane stability using precise measurements of specific capacitance. <i>Biophysical Journal</i> , 1970 , 10, 1127-48	2.9	129
110	Location of hexane in lipid bilayers determined by neutron diffraction. <i>Nature</i> , 1981 , 290, 161-163	50.4	128
109	Designing transmembrane alpha-helices that insert spontaneously. <i>Biochemistry</i> , 2000 , 39, 4432-42	3.2	126
108	CD spectra of indolicidin antimicrobial peptides suggest turns, not polyproline helix. <i>Biochemistry</i> , 1999 , 38, 12313-9	3.2	122
107	Critical role of lipid composition in membrane permeabilization by rabbit neutrophil defensins. <i>Journal of Biological Chemistry</i> , 1997 , 272, 24224-33	5.4	118
106	Capacitance, area, and thickness variations in thin lipid films. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1973 , 323, 7-22	3.8	117
105	AND/R: Advanced neutron diffractometer/reflectometer for investigation of thin films and multilayers for the life sciences. <i>Review of Scientific Instruments</i> , 2006 , 77, 74301-7430111	1.7	114
104	Transmembrane helices before, during, and after insertion. <i>Current Opinion in Structural Biology</i> , 2005 , 15, 378-86	8.1	113
103	Protein chemistry at membrane interfaces: non-additivity of electrostatic and hydrophobic interactions. <i>Journal of Molecular Biology</i> , 2001 , 309, 543-52	6.5	105
102	The machinery of membrane protein assembly. <i>Current Opinion in Structural Biology</i> , 2004 , 14, 397-404	8.1	103
101	Arginine in membranes: the connection between molecular dynamics simulations and translocon-mediated insertion experiments. <i>Journal of Membrane Biology</i> , 2011 , 239, 35-48	2.3	94
100	Rhomboid protease dynamics and lipid interactions. <i>Structure</i> , 2009 , 17, 395-405	5.2	91
99	Analysis of the torus surrounding planar lipid bilayer membranes. <i>Biophysical Journal</i> , 1972 , 12, 432-45	2.9	90
98	Interfacial folding and membrane insertion of a designed helical peptide. <i>Biochemistry</i> , 2004 , 43, 5782-91	3.2	84
97	Spontaneous transmembrane helix insertion thermodynamically mimics translocon-guided insertion. <i>Nature Communications</i> , 2014 , 5, 4863	17.4	79

96	In silico partitioning and transmembrane insertion of hydrophobic peptides under equilibrium conditions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15487-95	16.4	79
95	Interactions of monomeric rabbit neutrophil defensins with bilayers: comparison with dimeric human defensin HNP-2. <i>Biochemistry</i> , 1996 , 35, 11888-94	3.2	79
94	A voltage-sensor water pore. <i>Biophysical Journal</i> , 2006 , 91, L90-2	2.9	78
93	Copper-transporting P-type ATPases use a unique ion-release pathway. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 43-8	17.6	77
92	Determining the membrane topology of peptides by fluorescence quenching. <i>Biochemistry</i> , 2000 , 39, 161-70	3.2	73
91	Appreciation. Jane s. Richardson: biophysical society national lecturer 1992. <i>Biophysical Journal</i> , 1992 , 63, 1185	2.9	73
90	Insertion of short transmembrane helices by the Sec61 translocon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11588-93	11.5	72
89	Hydration of POPC bilayers studied by 1H-PFG-MAS-NOESY and neutron diffraction. <i>European Biophysics Journal</i> , 2007 , 36, 281-91	1.9	71
88	A comprehensive classification system for lipids. <i>European Journal of Lipid Science and Technology</i> , 2005 , 107, 337-364	3	71
87	Transbilayer distribution of bromine in fluid bilayers containing a specifically brominated analogue of dioleoylphosphatidylcholine. <i>Biochemistry</i> , 1991 , 30, 6997-7008	3.2	65
86	CD spectroscopy of peptides and proteins bound to large unilamellar vesicles. <i>Journal of Membrane Biology</i> , 2010 , 236, 247-53	2.3	63
85	Molecular code for protein insertion in the endoplasmic reticulum membrane is similar for N(in)-C(out) and N(out)-C(in) transmembrane helices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15702-7	11.5	63
84	Acyl-chain methyl distributions of liquid-ordered and -disordered membranes. <i>Biophysical Journal</i> , 2011 , 100, 1455-62	2.9	60
83	Asn- and Asp-mediated interactions between transmembrane helices during translocon-mediated membrane protein assembly. <i>EMBO Reports</i> , 2006 , 7, 1111-6	6.5	60
82	Water wires in atomistic models of the Hv1 proton channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 286-93	3.8	58
81	Membrane protein insertion: the biology-physics nexus. <i>Journal of General Physiology</i> , 2007 , 129, 363-9	3.4	57
80	Hydrogen bond dynamics in membrane protein function. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 942-50	3.8	54
79	Reversible refolding of the diphtheria toxin T-domain on lipid membranes. <i>Biochemistry</i> , 2004 , 43, 7451-8	3.2	53

78	Hexane dissolved in dioleoyllecithin bilayers has a partial molar volume of approximately zero. <i>Biochemistry</i> , 1985 , 24, 4637-45	3.2	53
77	Mixtures of a series of homologous hydrophobic peptides with lipid bilayers: a simple model system for examining the protein-lipid interface. <i>Biochemistry</i> , 1986 , 25, 2605-12	3.2	53
76	Membrane partitioning: "classical" and "nonclassical" hydrophobic effects. <i>Journal of Membrane Biology</i> , 2011 , 239, 5-14	2.3	52
75	Mechanism of leakage of contents of membrane vesicles determined by fluorescence reequencing. <i>Methods in Enzymology</i> , 1997 , 278, 474-86	1.7	51
74	The lipid bilayer as a "solvent" for small hydrophobic molecules. <i>Nature</i> , 1976 , 262, 421-2	50.4	50
73	Aggregation behavior of an ultra-pure lipopolysaccharide that stimulates TLR-4 receptors. <i>Biophysical Journal</i> , 2008 , 95, 986-93	2.9	49
72	Self-induced docking site of a deeply embedded peripheral membrane protein. <i>Biophysical Journal</i> , 2007 , 92, 517-24	2.9	49
71	Translocons, thermodynamics, and the folding of membrane proteins. <i>FEBS Letters</i> , 2003 , 555, 116-21	3.8	48
70	Partitioning of tryptophan side-chain analogs between water and cyclohexane. <i>Biochemistry</i> , 1992 , 31, 12813-8	3.2	48
69	Investigation of finite system-size effects in molecular dynamics simulations of lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 24157-64	3.4	47
68	Temperature-dependent structural changes in planar bilayer membranes: solvent "freeze-out". <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1974 , 356, 8-16	3.8	47
67	Proton-coupled dynamics in lactose permease. <i>Structure</i> , 2012 , 20, 1893-904	5.2	46
66	Conformational states of melittin at a bilayer interface. <i>Biophysical Journal</i> , 2013 , 104, L12-4	2.9	45
65	Apolar surface area determines the efficiency of translocon-mediated membrane-protein integration into the endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E359-64	11.5	45
64	Amino acid preferences of small proteins. Implications for protein stability and evolution. <i>Journal of Molecular Biology</i> , 1992 , 227, 991-5	6.5	45
63	Structural interactions of a voltage sensor toxin with lipid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5463-70	11.5	43
62	An experiment-based algorithm for predicting the partitioning of unfolded peptides into phosphatidylcholine bilayer interfaces. <i>Biochemistry</i> , 2005 , 44, 12614-9	3.2	42
61	Determining the membrane topology of proteins: insertion pathway of a transmembrane helix of annexin 12. <i>Biochemistry</i> , 2002 , 41, 13617-26	3.2	42

60	Dynamics of SecY translocons with translocation-defective mutations. <i>Structure</i> , 2010 , 18, 847-57	5.2	41
59	Hydrogen-bond energetics drive helix formation in membrane interfaces. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 178-82	3.8	40
58	pH dependence of sphingosine aggregation. <i>Biophysical Journal</i> , 2009 , 96, 2727-33	2.9	38
57	The evolution of proteins from random amino acid sequences. I. Evidence from the lengthwise distribution of amino acids in modern protein sequences. <i>Journal of Molecular Evolution</i> , 1993 , 36, 79-95 ^{3.1}	3.1	38
56	How hydrogen bonds shape membrane protein structure. <i>Advances in Protein Chemistry</i> , 2005 , 72, 157-72		36
55	The surface charge and double layers of thin lipid films formed from neutral lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1973 , 323, 343-50	3.8	36
54	Anomalous behavior of water inside the SecY translocon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9016-21	11.5	34
53	Selective approach to use of upper gastroesophageal imaging study after laparoscopic Roux-en-Y gastric bypass. <i>Surgery for Obesity and Related Diseases</i> , 2008 , 4, 122-5	3	32
52	Reversible unfolding of beta-sheets in membranes: a calorimetric study. <i>Journal of Molecular Biology</i> , 2004 , 342, 703-11	6.5	32
51	Structure and dynamics of cholesterol-containing polyunsaturated lipid membranes studied by neutron diffraction and NMR. <i>Journal of Membrane Biology</i> , 2011 , 239, 63-71	2.3	31
50	Observations concerning topology and locations of helix ends of membrane proteins of known structure. <i>Journal of Membrane Biology</i> , 1990 , 115, 145-58	2.3	31
49	Lipid bilayer perturbations induced by simple hydrophobic peptides. <i>Biochemistry</i> , 1987 , 26, 6127-34	3.2	31
48	YidC Insertase of Escherichia coli: Water Accessibility and Membrane Shaping. <i>Structure</i> , 2017 , 25, 1403-1414.e30	14.3	30
47	Ser/Thr motifs in transmembrane proteins: conservation patterns and effects on local protein structure and dynamics. <i>Journal of Membrane Biology</i> , 2012 , 245, 717-30	2.3	30
46	Charge composition features of model single-span membrane proteins that determine selection of YidC and SecYEG translocase pathways in Escherichia coli. <i>Journal of Biological Chemistry</i> , 2013 , 288, 7704-7716	5.4	30
45	Formation and characterization of a single Trp-Trp cross-link in indolicidin that confers protease stability without altering antimicrobial activity. <i>Journal of Biological Chemistry</i> , 2000 , 275, 12017-22	5.4	30
44	Down-state model of the voltage-sensing domain of a potassium channel. <i>Biophysical Journal</i> , 2010 , 98, 2857-66	2.9	29
43	The Physical Nature of Planar Bilayer Membranes 1986 , 3-35		28

42	Assembly and Stability of β -Helical Membrane Proteins. <i>Soft Matter</i> , 2012 , 8, 7742-7752	3.6	24
41	Behavior of hexane dissolved in dimyristoylphosphatidylcholine bilayers: an NMR and calorimetric study. <i>Journal of the American Chemical Society</i> , 1984 , 106, 915-920	16.4	24
40	Interleaflet mixing and coupling in liquid-disordered phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 354-62	3.8	23
39	Preparation of multilamellar vesicles of defined size-distribution by solvent-spherule evaporation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985 , 812, 793-801	3.8	23
38	SecA drives transmembrane insertion of RodZ, an unusual single-span membrane protein. <i>Journal of Molecular Biology</i> , 2015 , 427, 1023-37	6.5	21
37	Microscopic origin of gating current fluctuations in a potassium channel voltage sensor. <i>Biophysical Journal</i> , 2012 , 102, L44-6	2.9	21
36	Alphas and taus of tryptophan fluorescence in membranes. <i>Biophysical Journal</i> , 2001 , 81, 1825-7	2.9	19
35	Topology, dimerization, and stability of the single-span membrane protein CadC. <i>Journal of Molecular Biology</i> , 2014 , 426, 2942-57	6.5	17
34	Coupling between the voltage-sensing and pore domains in a voltage-gated potassium channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 1726-36	3.8	17
33	Diffraction-based density restraints for membrane and membrane-peptide molecular dynamics simulations. <i>Biophysical Journal</i> , 2006 , 91, 3617-29	2.9	16
32	Behavior of hexane dissolved in dioleoylphosphatidylcholine bilayers: an NMR and calorimetric study. <i>Journal of the American Chemical Society</i> , 1984 , 106, 6909-6912	16.4	16
31	Transmembrane helices containing a charged arginine are thermodynamically stable. <i>European Biophysics Journal</i> , 2017 , 46, 627-637	1.9	15
30	Computed Free Energies of Peptide Insertion into Bilayers are Independent of Computational Method. <i>Journal of Membrane Biology</i> , 2018 , 251, 345-356	2.3	15
29	Structural dynamics of the S4 voltage-sensor helix in lipid bilayers lacking phosphate groups. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8732-8	3.4	15
28	A novel fluorescent probe that senses the physical state of lipid bilayers. <i>Biophysical Journal</i> , 2009 , 96, 4631-41	2.9	15
27	Linear optimization of predictors for secondary structure. Application to transbilayer segments of membrane proteins. <i>Journal of Molecular Biology</i> , 1989 , 210, 195-209	6.5	15
26	Hydropathy Plots and the Prediction of Membrane Protein Topology 1994 , 97-124		15
25	The Liquid-Crystallographic Structure of Fluid Lipid Bilayer Membranes 1996 , 127-144		15

24	The evolution of proteins from random amino acid sequences: II. Evidence from the statistical distributions of the lengths of modern protein sequences. <i>Journal of Molecular Evolution</i> , 1994 , 38, 383-94 ¹	3.1	14
23	High precision capacitance bridge for studying lipid bilayer membranes. <i>Review of Scientific Instruments</i> , 1975 , 46, 1462-6	1.7	12
22	Structural Relaxation Processes and Collective Dynamics of Water in Biomolecular Environments. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 480-486	3.4	12
21	Galactoside-binding site in LacY. <i>Biochemistry</i> , 2014 , 53, 1536-43	3.2	11
20	The importance of the membrane interface as the reference state for membrane protein stability. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 2539-2548	3.8	6
19	The buffer value and transmembrane potential of Escherichia coli. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1972 , 255, 780-5	3.8	5
18	Stabilization of SecA ATPase by the primary cytoplasmic salt of Escherichia coli. <i>Protein Science</i> , 2019 , 28, 984-989	6.3	4
17	Partitioning of tryptophan side-chain analogs between water and cyclohexane. [Erratum to document cited in CA118(1):7358m]. <i>Biochemistry</i> , 1993 , 32, 9262-9262	3.2	4
16	Oriental Waves in Cell Membranes. <i>Molecular Crystals and Liquid Crystals</i> , 1982 , 88, 127-135		4
15	The SecA ATPase motor protein binds to Escherichia coli liposomes only as monomers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183358	3.8	3
14	Biochemistry. Crowds of syntaxins. <i>Science</i> , 2007 , 317, 1045-6	33.3	3
13	Determination of the Structure of Fluid Lipid Bilayer Membranes 2017 , 1-19		3
12	Binding of SecA ATPase monomers and dimers to lipid vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183112	3.8	3
11	Lipid Bilayers, Translocons and the Shaping of Polypeptide Structure 2006 , 1-25		1
10	The messy process of guiding proteins into membranes. <i>ELife</i> , 2015 , 4,	8.9	1
9	Peptides in Lipid Bilayers: Determination of Location by Absolute-Scale X-ray Refinement 2001 , 189-206		1
8	Solubility of Volatile Hydrocarbons in Lipid Bilayers 1986 , 279-295		1
7	A Hydrophilic Microenvironment in the Substrate-Translocating Groove of the YidC Membrane Insertase is Essential for Enzyme Function.. <i>Journal of Biological Chemistry</i> , 2022 , 101690	5.4	0

6	TOPOLOGY OF THE SecA ATPase BOUND TO LARGE UNILAMELLAR VESICLES.. <i>Journal of Molecular Biology</i> , 2022 , 167607	6.5	o
5	Dropping Out and Other Fates of Transmembrane Segments Inserted by the SecA ATPase. <i>Journal of Molecular Biology</i> , 2019 , 431, 2006-2019	6.5	
4	Membrane proteins pumping along [Current Opinion in Structural Biology 2005, 15:375-377]. <i>Current Opinion in Structural Biology</i> , 2006 , 16, 137	8.1	
3	Translocon-Assisted Folding of Membrane Proteins: New Insights into Lipid-Protein Interactions. <i>FASEB Journal</i> , 2007 , 21, A208	0.9	
2	Membrane Protein Insertion: The Biology/Physics Nexus. <i>Journal of Cell Biology</i> , 2007 , 177, i11-i11	7.3	
1	Lipid Bilayers, Translocons and the Shaping of Polypeptide Structure	3	