Stephen H White

List of Publications by Year
in descending order

154 papers	21,099 citations	15504 65 h-index	9589 142 g-index
181 all docs	181 docs citations	181 times ranked	14930 citing authors

#	Article	IF	Citations
1	MEMBRANE PROTEIN FOLDING AND STABILITY: Physical Principles. Annual Review of Biophysics and Biomolecular Structure, 1999, 28, 319-365.	18.3	1,595
2	Experimentally determined hydrophobicity scale for proteins at membrane interfaces. Nature Structural and Molecular Biology, 1996, 3, 842-848.	8.2	1,525
3	A comprehensive classification system for lipids. Journal of Lipid Research, 2005, 46, 839-861.	4.2	1,348
4	The Preference of Tryptophan for Membrane Interfacesâ€. Biochemistry, 1998, 37, 14713-14718.	2.5	899
5	Recognition of transmembrane helices by the endoplasmic reticulum translocon. Nature, 2005, 433, 377-381.	27.8	888
6	Structure of a fluid dioleoylphosphatidylcholine bilayer determined by joint refinement of x-ray and neutron diffraction data. III. Complete structure. Biophysical Journal, 1992, 61, 434-447.	0.5	644
7	Molecular code for transmembrane-helix recognition by the Sec61 translocon. Nature, 2007, 450, 1026-1030.	27.8	644
8	Solvation Energies of Amino Acid Side Chains and Backbone in a Family of Hostâ"Guest Pentapeptides. Biochemistry, 1996, 35, 5109-5124.	2.5	534
9	Hydrophobic interactions of peptides with membrane interfaces. BBA - Biomembranes, 1998, 1376, 339-352.	8.0	482
10	The nature of the hydrophobic binding of small peptides at the bilayer interface: implications for the insertion of transbilayer helices. Biochemistry, 1989, 28, 3421-3437.	2.5	480
11	How to Measure and Analyze Tryptophan Fluorescence in Membranes Properly, and Why Bother?. Analytical Biochemistry, 2000, 285, 235-245.	2.4	415
12	Structure, function, and membrane integration of defensins. Current Opinion in Structural Biology, 1995, 5, 521-527.	5.7	392
13	Interactions between human defensins and lipid bilayers: Evidence for formation of multimeric pores. Protein Science, 1994, 3, 1362-1373.	7.6	349
14	Structure of lamellar lipid domains and corneocyte envelopes of murine stratum corneum. An x-ray diffraction study. Biochemistry, 1988, 27, 3725-3732.	2.5	347
15	Folding of amphipathic Î±-helices on membranes: energetics of helix formation by melittin 1 1Edited by D. Rees. Journal of Molecular Biology, 1999, 285, 1363-1369.	4.2	309
16	Mechanisms of Integral Membrane Protein Insertion and Folding. Journal of Molecular Biology, 2015, 427, 999-1022.	4.2	292
17	Membrane Structures in Normal and Essential Fatty Acid-Deficient Stratum Corneum: Characterization by Ruthenium Tetroxide Staining and X-Ray Diffraction. Journal of Investigative Dermatology, 1991, 96, 215-223.	0.7	284
18	How Membranes Shape Protein Structure. Journal of Biological Chemistry, 2001, 276, 32395-32398.	3.4	273

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19	The progress of membrane protein structure determination. Protein Science, 2004, 13, 1948-1949.	7.6	272
20	Structure, Location, and Lipid Perturbations of Melittin at the Membrane Interface. Biophysical Journal, 2001, 80, 801-811.	0.5	264
21	Biophysical dissection of membrane proteins. Nature, 2009, 459, 344-346.	27.8	250
22	MPEx: A tool for exploring membrane proteins. Protein Science, 2009, 18, 2624-2628.	7.6	238
23	[4] Protein folding in membranes: Determining energetics of peptide-bilayer interactions. Methods in Enzymology, 1998, 295, 62-87.	1.0	233
24	Energetics, stability, and prediction of transmembrane helices11Edited by G. von Heijne. Journal of Molecular Biology, 2001, 312, 927-934.	4.2	229
25	â€˜Detergent-likeâ€™ permeabilization of anionic lipid vesicles by melittin. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1514, 253-260.	2.6	217
26	Membrane partitioning: Distinguishing bilayer effects from the hydrophobic effect. Biochemistry, 1993, 32, 6307-6312.	2.5	209
27	Interface connections of a transmembrane voltage sensor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15059-15064.	7.1	208
28	An amphipathic Î±-helix at a membrane interface: a structural study using a novel X-ray diffraction method 1 1Edited by D. C. Rees. Journal of Molecular Biology, 1999, 290, 99-117.	4.2	196
29	Folding of Î²-sheet membrane proteins: a hydrophobic hexapeptide model. Journal of Molecular Biology, 1998, 277, 1091-1110.	4.2	195
30	Peptides in lipid bilayers: structural and thermodynamic basis for partitioning and folding. Current Opinion in Structural Biology, 1994, 4, 79-86.	5.7	182
31	How Translocons Select Transmembrane Helices. Annual Review of Biophysics, 2008, 37, 23-42.	10.0	176
32	Structure and hydration of membranes embedded with voltage-sensing domains. Nature, 2009, 462, 473-479.	27.8	175
33	Membrane Insertion of a Potassium-Channel Voltage Sensor. Science, 2005, 307, 1427-1427.	12.6	171
34	MPtopo: A database of membrane protein topology. Protein Science, 2001, 10, 455-458.	7.6	163
35	Experimental Validation of Molecular Dynamics Simulations of Lipid Bilayers: A New Approach. Biophysical Journal, 2005, 88, 805-817.	0.5	161
36	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. Biophysical Journal, 1998, 74, 2419-2433.	0.5	159

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37	Bilayer Interactions of Indolicidin, a Small Antimicrobial Peptide Rich in Tryptophan, Proline, and Basic Amino Acids. Biophysical Journal, 1997, 72, 794-805.	0.5	157
38	Folding Amphipathic Helices Into Membranes: Amphiphilicity Trumps Hydrophobicity. Journal of Molecular Biology, 2007, 370, 459-470.	4.2	149
39	Location of hexane in lipid bilayers determined by neutron diffraction. Nature, 1981, 290, 161-163.	27.8	143
40	A Study of Lipid Bilayer Membrane Stability Using Precise Measurements of Specific Capacitance. Biophysical Journal, 1970, 10, 1127-1148.	0.5	140
41	Designing Transmembrane Î±-Helices That Insert Spontaneouslyâ€. Biochemistry, 2000, 39, 4432-4442.	2.5	137
42	Critical Role of Lipid Composition in Membrane Permeabilization by Rabbit Neutrophil Defensins. Journal of Biological Chemistry, 1997, 272, 24224-24233.	3.4	135
43	CD Spectra of Indolicidin Antimicrobial Peptides Suggest Turns, Not Polyproline Helixâ€. Biochemistry, 1999, 38, 12313-12319.	2.5	134
44	AND/R: Advanced neutron diffractometer/reflectometer for investigation of thin films and multilayers for the life sciences. Review of Scientific Instruments, 2006, 77, 074301.	1.3	131
45	Capacitance, area, and thickness variations in thin lipid films. Biochimica Et Biophysica Acta - Biomembranes, 1973, 323, 7-22.	2.6	130
46	Transmembrane helices before, during, and after insertion. Current Opinion in Structural Biology, 2005, 15, 378-386.	5.7	122
47	The machinery of membrane protein assembly. Current Opinion in Structural Biology, 2004, 14, 397-404.	5.7	121
48	Protein Chemistry at Membrane Interfaces: Non-additivity of Electrostatic and Hydrophobic Interactions. Journal of Molecular Biology, 2001, 309, 543-552.	4.2	112
49	Analysis of the Torus Surrounding Planar Lipid Bilayer Membranes. Biophysical Journal, 1972, 12, 432-445.	0.5	106
50	Arginine in Membranes: The Connection Between Molecular Dynamics Simulations and Translocon-Mediated Insertion Experiments. Journal of Membrane Biology, 2011, 239, 35-48.	2.1	104
51	Rhomboid Protease Dynamics and Lipid Interactions. Structure, 2009, 17, 395-405.	3.3	101
52	Copper-transporting P-type ATPases use a unique ion-release pathway. Nature Structural and Molecular Biology, 2014, 21, 43-48.	8.2	98
53	A comprehensive classification system for lipids. European Journal of Lipid Science and Technology, 2005, 107, 337-364.	1.5	94
54	In Silico Partitioning and Transmembrane Insertion of Hydrophobic Peptides under Equilibrium Conditions. Journal of the American Chemical Society, 2011, 133, 15487-15495.	13.7	92

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55	Interfacial Folding and Membrane Insertion of a Designed Helical Peptide. Biochemistry, 2004, 43, 5782-5791.	2.5	91
56	Spontaneous transmembrane helix insertion thermodynamically mimics translocon-guided insertion. Nature Communications, 2014, 5, 4863.	12.8	91
57	A Voltage-Sensor Water Pore. Biophysical Journal, 2006, 91, L90-L92.	0.5	89
58	Interactions of Monomeric Rabbit Neutrophil Defensins with Bilayers:Â Comparison with Dimeric Human Defensin HNP-2â€. Biochemistry, 1996, 35, 11888-11894.	2.5	88
59	Appreciation. Jane S. Richardson. Biophysical Journal, 1992, 63, 1185.	0.5	81
60	Determining the Membrane Topology of Peptides by Fluorescence Quenching. Biochemistry, 2000, 39, 161-170.	2.5	80
61	Hydration of POPC bilayers studied by 1H-PFG-MAS-NOESY and neutron diffraction. European Biophysics Journal, 2007, 36, 281-291.	2.2	80
62	Insertion of short transmembrane helices by the Sec61 translocon. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11588-11593.	7.1	76
63	Transbilayer distribution of bromine in fluid bilayers containing a specifically brominated analog of dioleoylphosphatidylcholine. Biochemistry, 1991, 30, 6997-7008.	2.5	72
64	CD Spectroscopy of Peptides and Proteins Bound to Large Unilamellar Vesicles. Journal of Membrane Biology, 2010, 236, 247-253.	2.1	72
65	Acyl-Chain Methyl Distributions of Liquid-Ordered and -Disordered Membranes. Biophysical Journal, 2011, 100, 1455-1462.	0.5	70
66	Molecular code for protein insertion in the endoplasmic reticulum membrane is similar for N _{in} â€“C _{out} and N _{out} â€“C _{in} transmembrane helices. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15702-15707.	7.1	69
67	Hydrogen bond dynamics in membrane protein function. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 942-950.	2.6	69
68	Water wires in atomistic models of the Hv1 proton channel. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 286-293.	2.6	67
69	Asnâ€•and Aspâ€mediated interactions between transmembrane helices during transloconâ€mediated membrane protein assembly. EMBO Reports, 2006, 7, 1111-1116.	4.5	65
70	Membrane Protein Insertion: The Biologyâ€“Physics Nexus. Journal of General Physiology, 2007, 129, 363-369.	1.9	63
71	Aggregation Behavior of an Ultra-Pure Lipopolysaccharide that Stimulates TLR-4 Receptors. Biophysical Journal, 2008, 95, 986-993.	0.5	61
72	Mixtures of a series of homologous hydrophobic peptides with lipid bilayers: a simple model system for examining the protein-lipid interface. Biochemistry, 1986, 25, 2605-2612.	2.5	59

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73	Membrane Partitioning: â€œClassicalâ€•and â€œNonclassicalâ€•Hydrophobic Effects. Journal of Membrane Biology, 2011, 239, 5-14.	2.1	57
74	[23] Mechanism of leakage of contents of membrane vesicles determined by fluorescence requenching. Methods in Enzymology, 1997, 278, 474-486.	1.0	56
75	Hexane dissolved in dioleoyllecithin bilayers has a partial molar volume of approximately zero. Biochemistry, 1985, 24, 4637-4645.	2.5	55
76	Reversible Refolding of the Diphtheria Toxin T-Domain on Lipid Membranesâ€. Biochemistry, 2004, 43, 7451-7458.	2.5	54
77	The lipid bilayer as a â€˜solventâ€™ for small hydrophobic molecules. Nature, 1976, 262, 421-422.	27.8	53
78	Self-Induced Docking Site of a Deeply Embedded Peripheral Membrane Protein. Biophysical Journal, 2007, 92, 517-524.	0.5	53
79	Proton-Coupled Dynamics in Lactose Permease. Structure, 2012, 20, 1893-1904.	3.3	53
80	Translocons, thermodynamics, and the folding of membrane proteins. FEBS Letters, 2003, 555, 116-121.	2.8	52
81	Apolar surface area determines the efficiency of translocon-mediated membrane-protein integration into the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E359-E364.	7.1	52
82	Structural interactions of a voltage sensor toxin with lipid membranes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5463-70.	7.1	52
83	Temperature-dependent structural changes in planar bilayer membranes: Solvent â€œfreeze-outâ€• Biochimica Et Biophysica Acta - Biomembranes, 1974, 356, 8-16.	2.6	51
84	Partitioning of tryptophan side-chain analogs between water and cyclohexane. Biochemistry, 1992, 31, 12813-12818.	2.5	51
85	Amino acid preferences of small proteins. Journal of Molecular Biology, 1992, 227, 991-995.	4.2	51
86	Hydrogen-bond energetics drive helix formation in membrane interfaces. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 178-182.	2.6	50
87	YidC Insertase of Escherichia coli: Water Accessibility and Membrane Shaping. Structure, 2017, 25, 1403-1414.e3.	3.3	50
88	Investigation of Finite System-Size Effects in Molecular Dynamics Simulations of Lipid Bilayers. Journal of Physical Chemistry B, 2006, 110, 24157-24164.	2.6	48
89	Conformational States of Melittin at a Bilayer Interface. Biophysical Journal, 2013, 104, L12-L14.	0.5	48
90	The evolution of proteins from random amino acid sequences. I. Evidence from the lengthwise distribution of amino acids in modern protein sequences. Journal of Molecular Evolution, 1993, 36, 79-95.	1.8	47

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91	An Experiment-Based Algorithm for Predicting the Partitioning of Unfolded Peptides into Phosphatidylcholine Bilayer Interfacesâ€. Biochemistry, 2005, 44, 12614-12619.	2.5	47
92	Dynamics of SecY Translocons with Translocation-Defective Mutations. Structure, 2010, 18, 847-857.	3.3	47
93	Determining the Membrane Topology of Proteins:â€‰ Insertion Pathway of a Transmembrane Helix of Annexin 12. Biochemistry, 2002, 41, 13617-13626.	2.5	44
94	The Physical Nature of Planar Bilayer Membranes. , 1986, , 3-35.		44
95	pH Dependence of Sphingosine Aggregation. Biophysical Journal, 2009, 96, 2727-2733.	0.5	43
96	The surface charge and double layers of thin lipid films formed from neutral lipids. Biochimica Et Biophysica Acta - Biomembranes, 1973, 323, 343-350.	2.6	41
97	How Hydrogen Bonds Shape Membrane Protein Structure. Advances in Protein Chemistry, 2005, 72, 157-172.	4.4	41
98	Anomalous behavior of water inside the SecY translocon. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9016-9021.	7.1	41
99	Selective approach to use of upper gastroesophageal imaging study after laparoscopic Roux-en-Y gastric bypass. Surgery for Obesity and Related Diseases, 2008, 4, 122-125.	1.2	36
100	Lipid bilayer perturbations induced by simple hydrophobic peptides. Biochemistry, 1987, 26, 6127-6134.	2.5	35
101	Formation and Characterization of a Single Trp-Trp Cross-link in Indolicidin That Confers Protease Stability without Altering Antimicrobial Activity. Journal of Biological Chemistry, 2000, 275, 12017-12022.	3.4	34
102	Structure and Dynamics of Cholesterol-Containing Polyunsaturated Lipid Membranes Studied by Neutron Diffraction and NMR. Journal of Membrane Biology, 2011, 239, 63-71.	2.1	34
103	Observations concerning topology and locations of helix ends of membrane proteins of known structure. Journal of Membrane Biology, 1990, 115, 145-158.	2.1	33
104	Reversible Unfolding of Î²-Sheets in Membranes: A Calorimetric Study. Journal of Molecular Biology, 2004, 342, 703-711.	4.2	33
105	Down-State Model of the Voltage-Sensing Domain of a Potassium Channel. Biophysical Journal, 2010, 98, 2857-2866.	0.5	33
106	Charge Composition Features of Model Single-span Membrane Proteins That Determine Selection of YidC and SecYEG Translocase Pathways in Escherichia coli. Journal of Biological Chemistry, 2013, 288, 7704-7716.	3.4	32
107	Behavior of hexane dissolved in dimyristoylphosphatidylcholine bilayers: an NMR and calorimetric study. Journal of the American Chemical Society, 1984, 106, 915-920.	13.7	30
108	Ser/Thr Motifs in Transmembrane Proteins: Conservation Patterns and Effects on Local Protein Structure and Dynamics. Journal of Membrane Biology, 2012, 245, 717-730.	2.1	30

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109	Interleaflet mixing and coupling in liquid-disordered phospholipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 354-362.	2.6	29
110	Preparation of multilamellar vesicles of defined size-distribution by solvent-spherule evaporation. Biochimica Et Biophysica Acta - Biomembranes, 1985, 812, 793-801.	2.6	28
111	Assembly and stability of Î±-helical membrane proteins. Soft Matter, 2012, 8, 7742.	2.7	28
112	Microscopic Origin of Gating Current Fluctuations in a Potassium Channel Voltage Sensor. Biophysical Journal, 2012, 102, L44-L46.	0.5	28
113	SecA Drives Transmembrane Insertion of RodZ, an Unusual Single-Span Membrane Protein. Journal of Molecular Biology, 2015, 427, 1023-1037.	4.2	28
114	The evolution of proteins from random amino acid sequences: II. Evidence from the statistical distributions of the lengths of modern protein sequences. Journal of Molecular Evolution, 1994, 38, 383-394.	1.8	24
115	The Liquid-Crystallographic Structure of Fluid Lipid Bilayer Membranes. , 1996, , 127-144.		23
116	Topology, Dimerization, and Stability of the Single-Span Membrane Protein CadC. Journal of Molecular Biology, 2014, 426, 2942-2957.	4.2	22
117	Computed Free Energies of Peptide Insertion into Bilayers are Independent of Computational Method. Journal of Membrane Biology, 2018, 251, 345-356.	2.1	22
118	Transmembrane helices containing a charged arginine are thermodynamically stable. European Biophysics Journal, 2017, 46, 627-637.	2.2	21
119	Alphas and Taus of Tryptophan Fluorescence in Membranes. Biophysical Journal, 2001, 81, 1825-1827.	0.5	20
120	Behavior of hexane dissolved in dioleoylphosphatidylcholine bilayers: an NMR and calorimetric study. Journal of the American Chemical Society, 1984, 106, 6909-6912.	13.7	18
121	A Novel Fluorescent Probe That Senses the Physical State of Lipid Bilayers. Biophysical Journal, 2009, 96, 4631-4641.	0.5	18
122	Structural Dynamics of the S4 Voltage-Sensor Helix in Lipid Bilayers Lacking Phosphate Groups. Journal of Physical Chemistry B, 2011, 115, 8732-8738.	2.6	18
123	Coupling between the voltage-sensing and pore domains in a voltage-gated potassium channel. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1726-1736.	2.6	18
124	Diffraction-Based Density Restraints for Membrane and Membrane-Peptide Molecular Dynamics Simulations. Biophysical Journal, 2006, 91, 3617-3629.	0.5	17
125	Linear optimization of predictors for secondary structure. Journal of Molecular Biology, 1989, 210, 195-209.	4.2	16
126	Hydropathy Plots and the Prediction of Membrane Protein Topology. , 1994, , 97-124.		16

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127	Structural Relaxation Processes and Collective Dynamics of Water in Biomolecular Environments. Journal of Physical Chemistry B, 2019, 123, 480-486.	2.6	14
128	High precision capacitance bridge for studying lipid bilayer membranes. Review of Scientific Instruments, 1975, 46, 1462-1466.	1.3	13
129	The importance of the membrane interface as the reference state for membrane protein stability. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2539-2548.	2.6	13
130	Rhomboid intramembrane protease structures galore!. Nature Structural and Molecular Biology, 2006, 13, 1049-1051.	8.2	12
131	Galactoside-Binding Site in LacY. Biochemistry, 2014, 53, 1536-1543.	2.5	11
132	The SecA ATPase motor protein binds to Escherichia coli liposomes only as monomers. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183358.	2.6	10
133	A hydrophilic microenvironment in the substrate-translocating groove of the YidC membrane insertase is essential for enzyme function. Journal of Biological Chemistry, 2022, 298, 101690.	3.4	9
134	Binding of SecA ATPase monomers and dimers to lipid vesicles. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183112.	2.6	8
135	Stabilization of SecA ATPase by the primary cytoplasmic salt of Escherichia coli. Protein Science, 2019, 28, 984-989.	7.6	7
136	Orientational Waves in Cell Membranes. Molecular Crystals and Liquid Crystals, 1982, 88, 127-135.	0.8	6
137	Membrane proteins Structure, assembly, and function: a panoply of progress. Current Opinion in Structural Biology, 1997, 7, 533-536.	5.7	6
138	Topology of the SecA ATPase Bound to Large Unilamellar Vesicles. Journal of Molecular Biology, 2022, 434, 167607.	4.2	6
139	The buffer value and transmembrane potential of escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 1972, 255, 780-785.	2.6	5
140	Partitioning of tryptophan side-chain analogs between water and cyclohexane. [Erratum to document cited in CA118(1):7358m]. Biochemistry, 1993, 32, 9262-9262.	2.5	5
141	Crowds of Syntaxins. Science, 2007, 317, 1045-1046.	12.6	5
142	Determination of the Structure of Fluid Lipid Bilayer Membranes. , 2017, , 1-19.		3
143	Dropping Out and Other Fates of Transmembrane Segments Inserted by the SecA ATPase. Journal of Molecular Biology, 2019, 431, 2006-2019.	4.2	2
144	Peptides in Lipid Bilayers: Determination of Location by Absolute-Scale X-ray Refinement. , 2001, , 189-206.		2

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145	The messy process of guiding proteins into membranes. ELife, 2015, 4, .	6.0	2
146	Membrane proteins â€" pumping along. Current Opinion in Structural Biology, 2005, 15, 375-377.	5.7	1
147	Lipid Bilayers, Translocons and the Shaping of Polypeptide Structure. , 2006, , 1-25.		1
148	Solubility of Volatile Hydrocarbons in Lipid Bilayers. , 1986, , 279-295.		1
149	Protein science and the age of information. Protein Science, 1993, 2, 303-304.	7.6	0
150	Electronic publishing: Protein science at the edge of a revolution. Protein Science, 1994, 3, 1899-1900.	7.6	0
151	Membrane proteins â€" pumping along [Current Opinion in Structural Biology 2005, 15:375â€“377]. Current Opinion in Structural Biology, 2006, 16, 137.	5.7	0
152	Microscopic Origin of Gating Current Fluctuations in a Potassium Channel Voltage Sensor. Biophysical Journal, 2012, 102, 686a.	0.5	0
153	Translocon‐Assisted Folding of Membrane Proteins: New Insights into Lipid‐Protein Interactions. FASEB Journal, 2007, 21, A208.	0.5	0
154	Membrane Protein Insertion: The Biologyâ€“Physics Nexus. Journal of Cell Biology, 2007, 177, i11-i11.	5.2	0