

J Antoinette Killian

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134 papers	9,731 citations	59 h-index	96 g-index
139 ext. papers	10,458 ext. citations	4.2 avg, IF	5.97 L-index

#	Paper	IF	Citations
134	Membrane damage by human islet amyloid polypeptide through fibril growth at the membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6033-8	11.5	381
133	Nonbilayer lipids affect peripheral and integral membrane proteins via changes in the lateral pressure profile. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1666, 275-88	3.8	318
132	Different membrane anchoring positions of tryptophan and lysine in synthetic transmembrane alpha-helical peptides. <i>Journal of Biological Chemistry</i> , 1999 , 274, 20839-46	5.4	273
131	Induction of nonbilayer structures in diacylphosphatidylcholine model membranes by transmembrane alpha-helical peptides: importance of hydrophobic mismatch and proposed role of tryptophans. <i>Biochemistry</i> , 1996 , 35, 1037-45	3.2	259
130	Lateral diffusion of membrane proteins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12650-6	16.4	250
129	Protein-lipid interactions studied with designed transmembrane peptides: role of hydrophobic matching and interfacial anchoring. <i>Molecular Membrane Biology</i> , 2003 , 20, 271-84	3.4	245
128	Influence of lipid/peptide hydrophobic mismatch on the thickness of diacylphosphatidylcholine bilayers. A 2H NMR and ESR study using designed transmembrane alpha-helical peptides and gramicidin A. <i>Biochemistry</i> , 1998 , 37, 9333-45	3.2	242
127	The styrene-maleic acid copolymer: a versatile tool in membrane research. <i>European Biophysics Journal</i> , 2016 , 45, 3-21	1.9	241
126	Interfacial anchor properties of tryptophan residues in transmembrane peptides can dominate over hydrophobic matching effects in peptide-lipid interactions. <i>Biochemistry</i> , 2003 , 42, 5341-8	3.2	233
125	Detergent-free isolation, characterization, and functional reconstitution of a tetrameric K ⁺ channel: the power of native nanodiscs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18607-12	11.5	232
124	Islet amyloid polypeptide-induced membrane leakage involves uptake of lipids by forming amyloid fibers. <i>FEBS Letters</i> , 2004 , 577, 117-20	3.8	211
123	Lipid packing drives the segregation of transmembrane helices into disordered lipid domains in model membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1343-8	11.5	193
122	Gramicidin and gramicidin-lipid interactions. <i>BBA - Biomembranes</i> , 1992 , 1113, 391-425		190
121	Snorkeling of lysine side chains in transmembrane helices: how easy can it get?. <i>FEBS Letters</i> , 2003 , 544, 69-73	3.8	163
120	Tilt angles of transmembrane model peptides in oriented and non-oriented lipid bilayers as determined by 2H solid-state NMR. <i>Biophysical Journal</i> , 2004 , 86, 3709-21	2.9	162
119	Sensitivity of single membrane-spanning alpha-helical peptides to hydrophobic mismatch with a lipid bilayer: effects on backbone structure, orientation, and extent of membrane incorporation. <i>Biochemistry</i> , 2001 , 40, 5000-10	3.2	162
118	Islet amyloid polypeptide inserts into phospholipid monolayers as monomer. <i>Journal of Molecular Biology</i> , 2006 , 356, 783-9	6.5	157

117	Geometry and intrinsic tilt of a tryptophan-anchored transmembrane alpha-helix determined by (2)H NMR. <i>Biophysical Journal</i> , 2002 , 83, 1479-88	2.9	156
116	The membrane as an environment of minimal interconversion. A circular dichroism study on the solvent dependence of the conformational behavior of gramicidin in diacylphosphatidylcholine model membranes. <i>Biochemistry</i> , 1988 , 27, 4848-55	3.2	142
115	How protein transmembrane segments sense the lipid environment. <i>Biochemistry</i> , 2007 , 46, 1457-65	3.2	134
114	Peptides in lipid bilayers: the power of simple models. <i>Current Opinion in Structural Biology</i> , 2006 , 16, 473-9	8.1	130
113	Synthetic peptides as models for intrinsic membrane proteins. <i>FEBS Letters</i> , 2003 , 555, 134-8	3.8	127
112	Hydrophobic mismatch between helices and lipid bilayers. <i>Biophysical Journal</i> , 2003 , 84, 379-85	2.9	122
111	Molecular model for the solubilization of membranes into nanodisks by styrene maleic Acid copolymers. <i>Biophysical Journal</i> , 2015 , 108, 279-90	2.9	121
110	Analysis of the role of interfacial tryptophan residues in controlling the topology of membrane proteins. <i>Biochemistry</i> , 2000 , 39, 6521-8	3.2	117
109	Membrane fusion and the lamellar-to-inverted-hexagonal phase transition in cardiolipin vesicle systems induced by divalent cations. <i>Biophysical Journal</i> , 1999 , 77, 2003-14	2.9	110
108	Phospholipid flop induced by transmembrane peptides in model membranes is modulated by lipid composition. <i>Biochemistry</i> , 2003 , 42, 231-7	3.2	109
107	Visualization of highly ordered striated domains induced by transmembrane peptides in supported phosphatidylcholine bilayers. <i>Biochemistry</i> , 2000 , 39, 5852-8	3.2	108
106	Bacterial reaction centers purified with styrene maleic acid copolymer retain native membrane functional properties and display enhanced stability. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11803-7	16.4	107
105	Self-association of transmembrane alpha-helices in model membranes: importance of helix orientation and role of hydrophobic mismatch. <i>Journal of Biological Chemistry</i> , 2005 , 280, 39324-31	5.4	106
104	Molecular ordering of interfacially localized tryptophan analogs in ester- and ether-lipid bilayers studied by 2H-NMR. <i>Biophysical Journal</i> , 1998 , 75, 1365-71	2.9	102
103	Orientation and dynamics of transmembrane peptides: the power of simple models. <i>European Biophysics Journal</i> , 2010 , 39, 609-21	1.9	99
102	Lipid dependence of membrane anchoring properties and snorkeling behavior of aromatic and charged residues in transmembrane peptides. <i>Biochemistry</i> , 2002 , 41, 7190-8	3.2	99
101	Factors affecting gas-phase deuterium scrambling in peptide ions and their implications for protein structure determination. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11191-8	16.4	99
100	Recent insights in islet amyloid polypeptide-induced membrane disruption and its role in beta-cell death in type 2 diabetes mellitus. <i>Experimental Diabetes Research</i> , 2008 , 2008, 421287		97

99	A water-lipid interface induces a highly dynamic folded state in apocytochrome c and cytochrome c, which may represent a common folding intermediate. <i>Biochemistry</i> , 1992 , 31, 1636-43	3.2	97
98	Analysis of circular dichroism spectra of oriented protein-lipid complexes: toward a general application. <i>Biochemistry</i> , 1994 , 33, 14521-8	3.2	94
97	On the orientation of a designed transmembrane peptide: toward the right tilt angle?. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15174-81	16.4	92
96	Transbilayer movement of phospholipids in biogenic membranes. <i>Biochemistry</i> , 2004 , 43, 2673-81	3.2	92
95	Influence of flanking residues on tilt and rotation angles of transmembrane peptides in lipid bilayers. A solid-state 2H NMR study. <i>Biochemistry</i> , 2005 , 44, 1004-12	3.2	91
94	The effects of hydrophobic mismatch between phosphatidylcholine bilayers and transmembrane alpha-helical peptides depend on the nature of interfacially exposed aromatic and charged residues. <i>Biochemistry</i> , 2002 , 41, 8396-404	3.2	89
93	Anionic phospholipids are essential for alpha-helix formation of the signal peptide of prePhoE upon interaction with phospholipid vesicles. <i>Biochemistry</i> , 1992 , 31, 1672-7	3.2	88
92	Sphingomyelin is much more effective than saturated phosphatidylcholine in excluding unsaturated phosphatidylcholine from domains formed with cholesterol. <i>FEBS Letters</i> , 2003 , 547, 101-6	3.8	86
91	Effect of Polymer Composition and pH on Membrane Solubilization by Styrene-Maleic Acid Copolymers. <i>Biophysical Journal</i> , 2016 , 111, 1974-1986	2.9	85
90	Hydrophobic Matching Mechanism Investigated by Molecular Dynamics Simulations. <i>Langmuir</i> , 2002 , 18, 1340-1351	4	79
89	Domain formation in phosphatidylcholine bilayers containing transmembrane peptides: specific effects of flanking residues. <i>Biochemistry</i> , 2002 , 41, 2814-24	3.2	78
88	Membrane-spanning peptides induce phospholipid flop: a model for phospholipid translocation across the inner membrane of E. coli. <i>Biochemistry</i> , 2001 , 40, 10500-6	3.2	76
87	Influence of hydrophobic mismatch and amino acid composition on the lateral diffusion of transmembrane peptides. <i>Biophysical Journal</i> , 2010 , 99, 1447-54	2.9	72
86	Stability of KcsA tetramer depends on membrane lateral pressure. <i>Biochemistry</i> , 2004 , 43, 4240-50	3.2	71
85	Influence of lipids on membrane assembly and stability of the potassium channel KcsA. <i>FEBS Letters</i> , 2002 , 525, 33-8	3.8	71
84	PhoE signal peptide inserts into micelles as a dynamic helix-break-helix structure, which is modulated by the environment. A two-dimensional 1H NMR study. <i>Biochemistry</i> , 1995 , 34, 11617-24	3.2	71
83	Mechanism and kinetics of peptide partitioning into membranes from all-atom simulations of thermostable peptides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3452-60	16.4	70
82	Sterols have higher affinity for sphingomyelin than for phosphatidylcholine bilayers even at equal acyl-chain order. <i>Biophysical Journal</i> , 2011 , 100, 2633-41	2.9	65

81	Membrane interaction of the glycosyltransferase MurG: a special role for cardiolipin. <i>Journal of Bacteriology</i> , 2003 , 185, 3773-9	3.5	65
80	Ruthenium-decorated lipid vesicles: light-induced release of [Ru(terpy)(bpy)(OH ₂)] ²⁺ and thermal back coordination. <i>Journal of the American Chemical Society</i> , 2011 , 133, 252-61	16.4	64
79	Thermodynamic, motional, and structural aspects of gramicidin-induced hexagonal HII phase formation in phosphatidylethanolamine. <i>Biochemistry</i> , 1985 , 24, 7881-90	3.2	64
78	Proton-Detected Solid-State NMR Spectroscopy of a Zinc Diffusion Facilitator Protein in Native Nanodiscs. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2508-2512	16.4	63
77	Orientation of the valine-1 side chain of the gramicidin transmembrane channel and implications for channel functioning. A 2H NMR study. <i>Biochemistry</i> , 1992 , 31, 11283-90	3.2	63
76	Low pH acts as inhibitor of membrane damage induced by human islet amyloid polypeptide. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15598-604	16.4	61
75	Effect of divalent cations on lipid organization of cardiolipin isolated from Escherichia coli strain AH930. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994 , 1189, 225-32	3.8	58
74	Solubilization of lipids and lipid phases by the styrene-maleic acid copolymer. <i>European Biophysics Journal</i> , 2017 , 46, 91-101	1.9	57
73	Tryptophan-anchored transmembrane peptides promote formation of nonlamellar phases in phosphatidylethanolamine model membranes in a mismatch-dependent manner. <i>Biochemistry</i> , 2000 , 39, 3124-33	3.2	54
72	The effect of peptide/lipid hydrophobic mismatch on the phase behavior of model membranes mimicking the lipid composition in Escherichia coli membranes. <i>Biophysical Journal</i> , 2000 , 78, 2475-85	2.9	53
71	The effectiveness of styrene-maleic acid (SMA) copolymers for solubilisation of integral membrane proteins from SMA-accessible and SMA-resistant membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 2133-2143	3.8	52
70	Importance of hydration for gramicidin-induced hexagonal HII phase formation in dioleoylphosphatidylcholine model membranes. <i>Biochemistry</i> , 1985 , 24, 7890-8	3.2	49
69	Influence of hydrophobic mismatch and palmitoylation on the association of transmembrane alpha-helical peptides with detergent-resistant membranes. <i>FEBS Letters</i> , 2002 , 523, 79-84	3.8	48
68	Interaction of the K ⁺ channel KcsA with membrane phospholipids as studied by ESI mass spectrometry. <i>FEBS Letters</i> , 2003 , 541, 28-32	3.8	46
67	Importance of hydrophobic matching for spontaneous insertion of a single-spanning membrane protein. <i>Biochemistry</i> , 2002 , 41, 4946-52	3.2	46
66	Effects of temperature variation and phenethyl alcohol addition on acyl chain order and lipid organization in Escherichia coli derived membrane systems. A 2H- and 31P-NMR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1105, 253-62	3.8	45
65	Self-reproduction of fatty acid vesicles: a combined experimental and simulation study. <i>Biophysical Journal</i> , 2010 , 99, 1520-8	2.9	44
64	Effect of nonbilayer lipids on membrane binding and insertion of the catalytic domain of leader peptidase. <i>Biochemistry</i> , 2001 , 40, 9677-84	3.2	44

63	Order parameters of a transmembrane helix in a fluid bilayer: case study of a WALP peptide. <i>Biophysical Journal</i> , 2010 , 98, 1864-72	2.9	43
62	Small alcohols destabilize the KcsA tetramer via their effect on the membrane lateral pressure. <i>Biochemistry</i> , 2004 , 43, 5937-42	3.2	43
61	Phosphatidic acid plays a special role in stabilizing and folding of the tetrameric potassium channel KcsA. <i>FEBS Letters</i> , 2007 , 581, 5715-22	3.8	41
60	Tilt and rotation angles of a transmembrane model peptide as studied by fluorescence spectroscopy. <i>Biophysical Journal</i> , 2009 , 97, 2258-66	2.9	39
59	Transmembrane peptides stabilize inverted cubic phases in a biphasic length-dependent manner: implications for protein-induced membrane fusion. <i>Biophysical Journal</i> , 2006 , 90, 200-11	2.9	39
58	Anionic lipids stimulate Sec-independent insertion of a membrane protein lacking charged amino acid side chains. <i>EMBO Reports</i> , 2001 , 2, 403-8	6.5	38
57	Activation of the bacterial thermosensor DesK involves a serine zipper dimerization motif that is modulated by bilayer thickness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6353-8	11.5	37
56	Protein self-assembly and lipid binding in the folding of the potassium channel KcsA. <i>Biochemistry</i> , 2008 , 47, 2123-33	3.2	37
55	Strength of integration of transmembrane alpha-helical peptides in lipid bilayers as determined by atomic force spectroscopy. <i>Biochemistry</i> , 2004 , 43, 14987-93	3.2	33
54	Characterization of the thermotropic behavior and lateral organization of lipid-peptide mixtures by a combined experimental and theoretical approach: effects of hydrophobic mismatch and role of flanking residues. <i>Biophysical Journal</i> , 2002 , 82, 1405-17	2.9	33
53	Palmitoylation-induced conformational changes of specific side chains in the gramicidin transmembrane channel. <i>Biochemistry</i> , 1995 , 34, 9299-306	3.2	33
52	Gramicidin-induced hexagonal HII phase formation in negatively charged phospholipids and the effect of N- and C-terminal modification of gramicidin on its interaction with zwitterionic phospholipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986 , 857, 13-27	3.8	33
51	Isolation of lipids from biological samples. <i>Molecular Membrane Biology</i> , 2015 , 32, 55-64	3.4	31
50	Efficient membrane assembly of the KcsA potassium channel in Escherichia coli requires the protonmotive force. <i>EMBO Reports</i> , 2000 , 1, 340-6	6.5	31
49	Biophysical investigation of the membrane-disrupting mechanism of the antimicrobial and amyloid-like peptide dermaseptin S9. <i>PLoS ONE</i> , 2013 , 8, e75528	3.7	30
48	Photo-crosslinking analysis of preferential interactions between a transmembrane peptide and matching lipids. <i>Biochemistry</i> , 2004 , 43, 4482-9	3.2	30
47	Conformation of gramicidin in relation to its ability to form bilayers with lysophosphatidylcholine. <i>Biochemistry</i> , 1988 , 27, 7295-301	3.2	30
46	2,2,2-Trifluoroethanol changes the transition kinetics and subunit interactions in the small bacterial mechanosensitive channel MscS. <i>Biophysical Journal</i> , 2007 , 92, 2771-84	2.9	26

45	Is there a preferential interaction between cholesterol and tryptophan residues in membrane proteins?. <i>Biochemistry</i> , 2008 , 47, 2638-49	3.2	25
44	A synergistic effect between cholesterol and tryptophan-flanked transmembrane helices modulates membrane curvature. <i>Biochemistry</i> , 2005 , 44, 4526-32	3.2	25
43	The influence of the acyl chain composition of cardiolipin on the stability of mitochondrial complexes; an unexpected effect of cardiolipin in alpha-ketoglutarate dehydrogenase and prohibitin complexes. <i>Journal of Proteomics</i> , 2010 , 73, 806-14	3.9	24
42	Components required for membrane assembly of newly synthesized K ⁺ channel KcsA. <i>FEBS Letters</i> , 2002 , 511, 51-8	3.8	24
41	Conformation of the acylation site of palmitoylgramicidin in lipid bilayers of dimyristoylphosphatidylcholine. <i>Biochemistry</i> , 1996 , 35, 3641-8	3.2	24
40	The N-terminal fragment of human islet amyloid polypeptide is non-fibrillogenic in the presence of membranes and does not cause leakage of bilayers of physiologically relevant lipid composition. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 1805-11	3.8	23
39	E. coli MG1655 modulates its phospholipid composition through the cell cycle. <i>FEBS Letters</i> , 2015 , 589, 2726-30	3.8	22
38	Detection and identification of stable oligomeric protein complexes in Escherichia coli inner membranes: a proteomics approach. <i>Journal of Biological Chemistry</i> , 2005 , 280, 28742-8	5.4	22
37	A convenient solid phase synthesis of S-palmitoyl transmembrane peptides. <i>Tetrahedron Letters</i> , 2005 , 46, 3341-3345	2	21
36	Residue specific effects of human islet polypeptide amyloid on self-assembly and on cell toxicity. <i>Biochimie</i> , 2017 , 142, 22-30	4.6	20
35	Impaired processing of human pro-islet amyloid polypeptide is not a causative factor for fibril formation or membrane damage in vitro. <i>Biochemistry</i> , 2009 , 48, 10918-25	3.2	20
34	Influence of trifluoroethanol on membrane interfacial anchoring interactions of transmembrane alpha-helical peptides. <i>Biophysical Journal</i> , 2008 , 94, 1315-25	2.9	20
33	Acidic interaction of the colicin A pore-forming domain with model membranes of Escherichia coli lipids results in a large perturbation of acyl chain order and stabilization of the bilayer. <i>Biochemistry</i> , 1992 , 31, 11089-94	3.2	20
32	Molecular organization in striated domains induced by transmembrane alpha-helical peptides in dipalmitoyl phosphatidylcholine bilayers. <i>Biochemistry</i> , 2005 , 44, 2-10	3.2	19
31	The membrane interaction of amphiphilic model peptides affects phosphatidylserine headgroup and acyl chain order and dynamics. Application of the "phospholipid headgroup electrometer" concept to phosphatidylserine. <i>Biochemistry</i> , 1991 , 30, 1155-62	3.2	19
30	Membrane Solubilization by Styrene-Maleic Acid Copolymers: Delineating the Role of Polymer Length. <i>Biophysical Journal</i> , 2018 , 115, 129-138	2.9	19
29	Aggregation of transmembrane peptides studied by spin-label EPR. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12257-64	3.4	18
28	Activation of phospholipase A2 by temporin B: formation of antimicrobial peptide-enzyme amyloid-type cofibrils. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 1064-72	3.8	18

27	The mitochondrial precursor protein apocytochrome c strongly influences the order of the headgroup and acyl chains of phosphatidylserine dispersions. A ^2H and ^{31}P NMR study. <i>Biochemistry</i> , 1990 , 29, 2312-21	3.2	18
26	Thermodynamic measurements of bilayer insertion of a single transmembrane helix chaperoned by fluorinated surfactants. <i>Journal of Molecular Biology</i> , 2012 , 416, 328-34	6.5	16
25	Modeling the membrane environment for membrane proteins. <i>Biophysical Journal</i> , 2011 , 100, 2073-4; author reply 2075	2.9	16
24	Peptide Partitioning and Folding into Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 2202-5	6.4	16
23	The role of the disulfide bond in the interaction of islet amyloid polypeptide with membranes. <i>European Biophysics Journal</i> , 2010 , 39, 1359-64	1.9	16
22	Factors influencing the solubilization of membrane proteins from <i>Escherichia coli</i> membranes by styrene-maleic acid copolymers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183125	3.8	16
21	Mass Photometry of Membrane Proteins. <i>Chem</i> , 2021 , 7, 224-236	16.2	16
20	Bacterial Reaction Centers Purified with Styrene Maleic Acid Copolymer Retain Native Membrane Functional Properties and Display Enhanced Stability. <i>Angewandte Chemie</i> , 2014 , 126, 11997-12001	3.6	15
19	Solubilization of human cells by the styrene-maleic acid copolymer: Insights from fluorescence microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 2155-2160	3.8	15
18	How lipid headgroups sense the membrane environment: an application of ^2H NMR. <i>Biophysical Journal</i> , 2012 , 103, 1245-53	2.9	15
17	Iterative RAFT-Mediated Copolymerization of Styrene and Maleic Anhydride toward Sequence- and Length-Controlled Copolymers and Their Applications for Solubilizing Lipid Membranes. <i>Biomacromolecules</i> , 2020 , 21, 3287-3300	6.9	15
16	Chapter 13 Phospholipid Structure and <i>Escherichia Coli</i> Membranes. <i>Current Topics in Membranes</i> , 1997 , 477-515	2.2	13
15	Orientation of the alpha-helices of apocytochrome c and derived fragments at membrane interfaces, as studied by circular dichroism. <i>Biochemistry</i> , 1994 , 33, 14529-35	3.2	12
14	A simple and convenient method for the hydrolysis of styrene-maleic anhydride copolymers to styrene-maleic acid copolymers. <i>Chemistry and Physics of Lipids</i> , 2019 , 218, 85-90	3.7	12
13	Striated domains: self-organizing ordered assemblies of transmembrane alpha-helical peptides and lipids in bilayers. <i>Biological Chemistry</i> , 2006 , 387, 235-41	4.5	10
12	A single mutation on the human amyloid polypeptide modulates fibril growth and affects the mechanism of amyloid-induced membrane damage. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 1783-1792	3.8	9
11	The small molecule inhibitor anle145c thermodynamically traps human islet amyloid peptide in the form of non-cytotoxic oligomers. <i>Scientific Reports</i> , 2019 , 9, 19023	4.9	8
10	Probing the lipid-protein interface using model transmembrane peptides with a covalently linked acyl chain. <i>Biophysical Journal</i> , 2011 , 101, 1959-67	2.9	7

9	A Broad-Spectrum Antiviral Peptide Blocks Infection of Viruses by Binding to Phosphatidylserine in the Viral Envelope. <i>Cells</i> , 2020 , 9,	7.9	6
8	Protonendetektierte Festkörper-NMR-Spektroskopie an einem Zinktransporter-Membranprotein in nativen Nanoscheiben. <i>Angewandte Chemie</i> , 2017 , 129, 2549-2553	3.6	5
7	Lipase activity in lipidomics - a hidden problem?. <i>Molecular Membrane Biology</i> , 2013 , 30, 347-9	3.4	4
6	Photophysics in single light-harvesting complexes II: from micelle to native nanodisks 2016 ,		3
5	Bacillus subtilis MraY in detergent-free system of nanodiscs wrapped by styrene-maleic acid copolymers. <i>PLoS ONE</i> , 2018 , 13, e0206692	3.7	3
4	Synthesis and Evaluation of a Library of Alternating Amphipathic Copolymers to Solubilize and Study Membrane Proteins.. <i>Biomacromolecules</i> , 2022 ,	6.9	2
3	Membrane-catalyzed IAPP aggregation is dominated by secondary nucleation		1
2	Peptide influences on lipids. <i>Novartis Foundation Symposium</i> , 1999 , 225, 170-83; discussion 183-7		1
1	A Detergent-Free Approach to Membrane Protein Research: Polymer-Bounded Native Nanodiscs. <i>Biophysical Journal</i> , 2016 , 110, 580a	2.9	