Burkhard Bechinger

List of Publications by Year
in descending order

153 papers	7,980 citations	38742 50 h-index	58581 82 g-index
160 all docs	160 docs citations	160 times ranked	5851 citing authors

#	Article	IF	Citations
1	Lipid saturation and head group composition have a pronounced influence on the membrane insertion equilibrium of amphipathic helical polypeptides. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183844.	2.6	7
2	Where the heart beats. Structure, 2022, 30, 326-328.	3.3	0
3	Effect of lipid saturation on the topology and oligomeric state of helical membrane polypeptides. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 184001.	2.6	4
4	Antimicrobial peptides: mechanism of action and lipid-mediated synergistic interactions within membranes. Faraday Discussions, 2021, 232, 419-434.	3.2	13
5	Different Biological Activities of Histidine-Rich Peptides Are Favored by Variations in Their Design. Toxins, 2021, 13, 363.	3.4	6
6	Membrane Interactions Accelerate the Self-Aggregation of Huntingtin Exon 1 Fragments in a Polyglutamine Length-Dependent Manner. International Journal of Molecular Sciences, 2021, 22, 6725.	4.1	2
7	Membrane interactions of Ocellatins. Where do antimicrobial gaps stem from?. Amino Acids, 2021, 53, 1241-1256.	2.7	1
8	Investigation of the Action of Peptides on Lipid Membranes. Journal of Physical Chemistry B, 2021, 125, 10213-10223.	2.6	4
9	Antimicrobial Peptides: A Potent Alternative to Antibiotics. Antibiotics, 2021, 10, 1095.	3.7	125
10	Epimers l- and d-Phenylseptin: How the relative stereochemistry affects the peptide-membrane interactions. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183708.	2.6	3
11	Peptides derived from the C-terminal domain of HIV-1 Viral Protein R in lipid bilayers: Structure, membrane positioning and gene delivery. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183149.	2.6	14
12	The Reversible Non-covalent Aggregation Into Fibers of PGLa and Magainin 2 Preserves Their Antimicrobial Activity and Synergism. Frontiers in Cellular and Infection Microbiology, 2020, 10, 526459.	3.9	13
13	Membrane pore-formation correlates with the hydrophilic angle of histidine-rich amphipathic peptides with multiple biological activities. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183212.	2.6	21
14	Highly synergistic antimicrobial activity of magainin 2 and PGLa peptides is rooted in the formation of supramolecular complexes with lipids. Scientific Reports, 2020, 10, 11652.	3.3	28
15	Copper-binding motifs Xxx-His or Xxx-Zzz-His (ATCUN) linked to an antimicrobial peptide: Cu-binding, antimicrobial activity and ROS production. Journal of Inorganic Biochemistry, 2020, 213, 111255.	3.5	7
16	Two distinct amphipathic peptide antibiotics with systemic efficacy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19446-19454.	7.1	61
17	Revealing the Mechanisms of Synergistic Action of Two Magainin Antimicrobial Peptides. Frontiers in Medical Technology, 2020, 2, 615494.	2.5	25
18	Characterization of the DNA and Membrane Interactions of a Bioreducible Cell-Penetrating Foldamer in its Monomeric and Dimeric Form. Journal of Physical Chemistry B, 2020, 124, 4476-4486.	2.6	6

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19	Structure, interactions and membrane topology of HIV gp41 ectodomain sequences. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183274.	2.6	9
20	Solidâ€"State NMR Investigations of the MHC II Transmembrane Domains: Topological Equilibria and Lipid Interactions. Biophysical Journal, 2020, 118, 391a-392a.	0.5	1
21	Structure, membrane topology and influence of cholesterol of the membrane proximal region: transmembrane helical anchor sequence of gp41 from HIV. Scientific Reports, 2020, 10, 22278.	3.3	4
22	Solid-state NMR structural investigations of peptide-based nanodiscs and of transmembrane helices in bicellar arrangements. Chemistry and Physics of Lipids, 2019, 219, 58-71.	3.2	22
23	Investigations of the Structure, Topology, and Interactions of the Transmembrane Domain of the Lipid-Sorting Protein p24 Being Highly Selective for Sphingomyelin-C18. Biochemistry, 2019, 58, 2782-2795.	2.5	9
24	Trichogin GA IV Alignment and Oligomerization in Phospholipid Bilayers. ChemBioChem, 2019, 20, 2141-2150.	2.6	10
25	Solid-State NMR Approaches to Study Protein Structure and Proteinâ€"Lipid Interactions. Methods in Molecular Biology, 2019, 2003, 563-598.	0.9	5
26	Solid-State NMR Investigations of the MHC II Transmembrane Domains: Topological Equilibria and Lipid Interactions. Journal of Membrane Biology, 2019, 252, 371-384.	2.1	17
27	Dynamic Nuclear Polarization / solid-state NMR of membranes. Thermal effects and sample geometry. Solid State Nuclear Magnetic Resonance, 2019, 100, 70-76.	2.3	7
28	Tyrocidine A interactions with saccharides investigated by CD and NMR spectroscopies. Journal of Peptide Science, 2019, 25, e3163.	1.4	7
29	Histidine-Rich Cationic Cell-Penetrating Peptides for Plasmid DNA and siRNA Delivery. Methods in Molecular Biology, 2019, 1943, 39-59.	0.9	5
30	The Mechanisms of Action of Cationic Antimicrobial Peptides Refined by Novel Concepts from Biophysical Investigations. Advances in Experimental Medicine and Biology, 2019, 1117, 33-64.	1.6	67
31	Structure, Topology, and Dynamics of Membrane-Inserted Polypeptides and Lipids by Solid-State NMR Spectroscopy: Investigations of the Transmembrane Domains of the DQ Beta-1 Subunit of the MHC II Receptor and of the COP I Protein p24. Frontiers in Molecular Biosciences, 2019, 6, 83.	3.5	7
32	Supported Lipid Bilayers. , 2019, , 1-8.		0
33	The Multifaceted Antibacterial Mechanisms of the Pioneering Peptide Antibiotics Tyrocidine and Gramicidin S. MBio, 2018, 9, .	4.1	83
34	Lipid-Mediated Interactions between the Antimicrobial Peptides Magainin 2 and PGLa in Bilayers. Biophysical Journal, 2018, 115, 1033-1044.	0.5	45
35	Lipid bilayer position and orientation of novel carprofens, modulators of Î³-secretase in Alzheimer's disease. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2224-2233.	2.6	1
36	Biophysical Investigations Elucidating the Mechanisms of Action of Antimicrobial Peptides and Their Synergism. Biomolecules, 2018, 8, 18.	4.0	83

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37	Aryl-Alkyl-Lysines Interact with Anionic Lipid Components of Bacterial Cell Envelope Eliciting Anti-Inflammatory and Antibiofilm Properties. ACS Omega, 2018, 3, 9182-9190.	3.5	12
38	Supramolecular Organization of Apolipoprotein-A-I-Derived Peptides within Disc-like Arrangements. Biophysical Journal, 2018, 115, 467-477.	0.5	23
39	Structure and membrane interactions of the homodimeric antibiotic peptide homotarsinin. Scientific Reports, 2017, 7, 40854.	3.3	24
40	Histidineâ€rich designer peptides of the LAH4 family promote cell delivery of a multitude of cargo. Journal of Peptide Science, 2017, 23, 320-328.	1.4	44
41	Dynamic Nuclear Polarization/Solidâ€State NMR Spectroscopy of Membrane Polypeptides: Freeâ€Radical Optimization for Matrixâ€Free Lipid Bilayer Samples. ChemPhysChem, 2017, 18, 2103-2113.	2.1	25
42	Structural Characterization of the Amyloid Precursor Protein Transmembrane Domain and Its Î³-Cleavage Site. ACS Omega, 2017, 2, 6525-6534.	3.5	26
43	Vectofusin-1, a potent peptidic enhancer of viral gene transfer forms pH-dependent Î±-helical nanofibrils, concentrating viral particles. Acta Biomaterialia, 2017, 64, 259-268.	8.3	34
44	Membrane perturbing activities and structural properties of the frog-skin derived peptide Esculentin-1a(1-21)NH2 and its Diastereomer Esc(1-21)-1c: Correlation with their antipseudomonal and cytotoxic activity. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 2327-2339.	2.6	27
45	The histidine-rich peptide LAH4-L1 strongly promotes PAMAM-mediated transfection at low nitrogen to phosphorus ratios in the presence of serum. Scientific Reports, 2017, 7, 9585.	3.3	9
46	pH-Dependent Membrane Interactions of the Histidine-Rich Cell-Penetrating Peptide LAH4-L1. Biophysical Journal, 2017, 113, 1290-1300.	0.5	51
47	Solution and Solid-State Nuclear Magnetic Resonance Structural Investigations of the Antimicrobial Designer Peptide GL13K in Membranes. Biochemistry, 2017, 56, 4269-4278.	2.5	30
48	Simultaneous Analysis of Secondary Structure and Light Scattering from Circular Dichroism Titrations: Application to Vectofusin-1. Scientific Reports, 2016, 6, 39450.	3.3	11
49	Alamethicin Supramolecular Organization in Lipid Membranes from 19F Solid-State NMR. Biophysical Journal, 2016, 111, 2450-2459.	0.5	28
50	Amphiphilicity Is a Key Determinant in the Membrane Interactions of Synthetic 14-mer Cationic Peptide Analogues. Biochemistry, 2016, 55, 6919-6930.	2.5	10
51	A Coiled-Coil Peptide Shaping Lipid Bilayers upon Fusion. Biophysical Journal, 2016, 111, 2162-2175.	0.5	36
52	Membrane topologies of the PGLa antimicrobial peptide and a transmembrane anchor sequence by Dynamic Nuclear Polarization/solid-state NMR spectroscopy. Scientific Reports, 2016, 6, 20895.	3.3	36
53	Molecular Determinants of Vectofusin-1 and Its Derivatives for the Enhancement of Lentivirally Mediated Gene Transfer into Hematopoietic Stem/Progenitor Cells. Journal of Biological Chemistry, 2016, 291, 2161-2169.	3.4	30
54	Investigations of the synergistic enhancement of antimicrobial activity in mixtures of magainin 2 and PGLa. Biophysical Chemistry, 2016, 210, 35-44.	2.8	36

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55	A Cellâ€Penetrating Foldamer with a Bioreducible Linkage for Intracellular Delivery of DNA. Angewandte Chemie - International Edition, 2015, 54, 11133-11137.	13.8	63
56	Magainin 2-PGLa Interactions in Membranes - Two Peptides that Exhibit Synergistic Enhancement of Antimicrobial Activity. Current Topics in Medicinal Chemistry, 2015, 16, 65-75.	2.1	21
57	Thermodynamic and Biophysical Analysis of the Membrane-Association of a Histidine-Rich Peptide with Efficient Antimicrobial and Transfection Activities. Journal of Physical Chemistry B, 2015, 119, 9678-9687.	2.6	26
58	Probing the Huntingtin 1-17 Membrane Anchor on a Phospholipid Bilayer by Using All-Atom Simulations. Biophysical Journal, 2015, 108, 1187-1198.	0.5	24
59	Solid-State NMR/Dynamic Nuclear Polarization of Polypeptides in Planar Supported Lipid Bilayers. Journal of Physical Chemistry B, 2015, 119, 14574-14583.	2.6	22
60	The SMART model: Soft Membranes Adapt and Respond, also Transiently, in the presence of antimicrobial peptides. Journal of Peptide Science, 2015, 21, 346-355.	1.4	87
61	15N chemical shift referencing in solid state NMR. Solid State Nuclear Magnetic Resonance, 2014, 61-62, 15-18.	2.3	112
62	Membrane Interactions of Phylloseptin-1, -2, and -3 Peptides by Oriented Solid-State NMR Spectroscopy. Biophysical Journal, 2014, 107, 901-911.	0.5	40
63	Molecular Packing of Amphipathic Peptides on the Surface of Lipid Membranes. Langmuir, 2014, 30, 10374-10383.	3.5	34
64	Solution Synthesis, Conformational Analysis, and Antimicrobial Activity of Three Alamethicin F50/5 Analogs Bearing a Trifluoroacetyl Label. Chemistry and Biodiversity, 2014, 11, 1163-1191.	2.1	5
65	Investigation of membrane penetration depth and interactions of the amino-terminal domain of huntingtin: refined analysis by tryptophan fluorescence measurement. European Biophysics Journal, 2014, 43, 347-360.	2.2	20
66	Lipid interactions of LAH4, a peptide with antimicrobial and nucleic acid transfection activities. European Biophysics Journal, 2014, 43, 499-507.	2.2	29
67	On the design of supramolecular assemblies made of peptides and lipid bilayers. Journal of Peptide Science, 2014, 20, 526-536.	1.4	15
68	CHAPTER 12. Investigations of the Structure, Topology and Dynamics of Membrane-Associated Polypeptides by Solid-State NMR Spectroscopy. New Developments in NMR, 2014, , 214-234.	0.1	6
69	Acyl Transfer from Membrane Lipids to Peptides Is a Generic Process. Journal of Molecular Biology, 2013, 425, 4379-4387.	4.2	10
70	Structure and Topology of the Huntingtin 1â€“17 Membrane Anchor byÂaÂCombined Solution and Solid-State NMR Approach. Biophysical Journal, 2013, 105, 699-710.	0.5	101
71	Solid-State NMR Approaches to Study Protein Structure and Proteinâ€“Lipid Interactions. Methods in Molecular Biology, 2013, 974, 357-387.	0.9	18
72	Membrane Interactions of the Amphipathic Amino Terminus of Huntingtin. Biochemistry, 2013, 52, 847-858.	2.5	83

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73	Hydramacin-1 in Action: Scrutinizing the Barnacle Model. Antimicrobial Agents and Chemotherapy, 2013, 57, 2955-2966.	3.2	9
74	Crystal structure and functional mechanism of a human antimicrobial membrane channel. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4586-4591.	7.1	104
75	Peptide-nucleic acid nanostructures for transfection. Biomolecular Concepts, 2012, 3, 283-293.	2.2	1
76	The Polymorphic Nature of Membrane-Active Peptides from Biophysical and Structural Investigations. Current Protein and Peptide Science, 2012, 13, 602-610.	1.4	22
77	Domains stack up. Nature Materials, 2012, 11, 1005-1006.	27.5	7
78	Orientation and depth of surfactant protein B C-terminal helix in lung surfactant bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1165-1172.	2.6	10
79	Developing DNP/Solid-State NMR Spectroscopy of Oriented Membranes. Applied Magnetic Resonance, 2012, 43, 91-106.	1.2	19
80	Solid state NMR studies of oligourea foldamers: Interaction of 15N-labelled amphiphilic helices with oriented lipid membranes. Organic and Biomolecular Chemistry, 2012, 10, 1440.	2.8	21
81	The membrane interactions of antimicrobial peptides revealed by solid-state NMR spectroscopy. Chemistry and Physics of Lipids, 2012, 165, 282-301.	3.2	110
82	Lipid-Controlled Peptide Topology and Interactions in Bilayers: Structural Insights into the Synergistic Enhancement of the Antimicrobial Activities of PGLa and Magainin 2. Biophysical Journal, 2011, 100, 1473-1480.	0.5	95
83	Structure and Alignment of the Membrane-Associated Antimicrobial Peptide Arenicin by Oriented Solid-State NMR Spectroscopy. Biochemistry, 2011, 50, 3784-3795.	2.5	30
84	Chemical shift powder spectra obtained by using ROtor-Directed Exchange of Orientations Cross-Polarization (RODEO-CP). Chemical Physics Letters, 2011, 508, 155-164.	2.6	15
85	A new family of peptideâ€“nucleic acid nanostructures with potent transfection activities. Journal of Peptide Science, 2011, 17, 88-93.	1.4	20
86	Insights into the mechanisms of action of host defence peptides from biophysical and structural investigations. Journal of Peptide Science, 2011, 17, 306-314.	1.4	78
87	The structural and topological analysis of membrane-associated polypeptides by oriented solid-state NMR spectroscopy: Established concepts and novel developments. Biophysical Chemistry, 2011, 153, 115-125.	2.8	82
88	Design and Evaluation of Histidine-Rich Amphipathic Peptides for siRNA Delivery. Pharmaceutical Research, 2010, 27, 1426-1436.	3.5	87
89	Membrane Association and Pore Formation by Alpha-Helical Peptides. Advances in Experimental Medicine and Biology, 2010, 677, 24-30.	1.6	16
90	Membrane structure and interactions of human catestatin by multidimensional solution and solidâ€state NMR spectroscopy. FASEB Journal, 2010, 24, 1737-1746.	0.5	36

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91	Reversible Liposome Association Induced by LAH4: A Peptide with Potent Antimicrobial and Nucleic Acid Transfection Activities. Biophysical Journal, 2010, 98, 2544-2553.	0.5	27
92	NMR Structures of the Histidine-Rich Peptide LAH4 in Micellar Environments: Membrane Insertion, pH-Dependent Mode of Antimicrobial Action, and DNA Transfection. Biophysical Journal, 2010, 99, 2507-2515.	0.5	57
93	Solid-state NMR approaches to measure topological equilibria and dynamics of membrane polypeptides. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 258-265.	2.6	48
94	Solid-State NMR Spectroscopy of Oriented Membrane Polypeptides at 100 K with Signal Enhancement by Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2010, 132, 5940-5941.	13.7	84
95	Solid-State NMR Investigations of Membrane-Associated Antimicrobial Peptides. Methods in Molecular Biology, 2010, 618, 209-233.	0.9	30
96	Structural Determinants of Antimicrobial and Antiplasmodial Activity and Selectivity in Histidine-rich Amphipathic Cationic Peptides. Journal of Biological Chemistry, 2009, 284, 119-133.	3.4	79
97	Rationalizing the membrane interactions of cationic amphipathic antimicrobial peptides by their molecular shape. Current Opinion in Colloid and Interface Science, 2009, 14, 349-355.	7.4	87
98	Analysis of the amide 15N chemical shift tensor of the CÎ± tetrasubstituted constituent of membrane-active peptaibols, the Î±-aminoisobutyric acid residue, compared to those of di- and tri-substituted proteinogenic amino acid residues. Journal of Biomolecular NMR, 2009, 45, 373-387.	2.8	36
99	Production and isotope labeling of antimicrobial peptides in Escherichia coli by means of a novel fusion partner that enables highâ€yield insoluble expression and fast purification. Journal of Peptide Science, 2009, 15, 278-284.	1.4	36
100	Membrane order perturbation in the presence of antimicrobial peptides by 2H solid-state NMR spectroscopy. Biochimie, 2009, 91, 734-743.	2.6	97
101	Deciphering Membrane Insertion of the Diphtheria Toxin T Domain by Specular Neutron Reflectometry and Solid-State NMR Spectroscopy. Journal of Molecular Biology, 2009, 391, 872-883.	4.2	54
102	Structure and Membrane Interactions of the Antibiotic Peptide Dermadistinctin K by Multidimensional Solution and Oriented 15N and 31P Solid-State NMR Spectroscopy. Biophysical Journal, 2009, 96, 2194-2203.	0.5	41
103	Structure and Alignment of the Membrane-Associated Peptaibols Ampullosporin A and Alamethicin by Oriented 15N and 31P Solid-State NMR Spectroscopy. Biophysical Journal, 2009, 96, 86-100.	0.5	95
104	Alamethicin Topology in Phospholipid Membranes by Oriented Solid-state NMR and EPR Spectroscopies: a Comparison. Journal of Physical Chemistry B, 2009, 113, 3034-3042.	2.6	39
105	Side Chain Resonances in Static Oriented Proton-Decoupled ¹⁵N Solid-State NMR Spectra of Membrane Proteins. Journal of the American Chemical Society, 2009, 131, 6340-6341.	13.7	12
106	Membrane structure and conformational changes of the antibiotic heterodimeric peptide distinctin by solid-state NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16639-16644.	7.1	67
107	Aggregation and membrane permeabilizing properties of designed histidineâ€containing cationic linear peptide antibiotics. Journal of Peptide Science, 2008, 14, 488-495.	1.4	49
108	Specific Isotope Labeling of Colicin E1 and B Channel Domains For Membrane Topological Analysis by Oriented Solidâ€State NMR Spectroscopy. ChemBioChem, 2008, 9, 944-951.	2.6	18

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109	Macromolecular Crowding at Membrane Interfaces: Adsorption and Alignment of Membrane Peptides. Journal of Molecular Biology, 2008, 375, 376-385.	4.2	52
110	Solution NMR structures of the antimicrobial peptides phylloseptin-1, -2, and -3 and biological activity: The role of charges and hydrogen bonding interactions in stabilizing helix conformations. Peptides, 2008, 29, 1633-1644.	2.4	59
111	Membrane Interaction of Chrysophsin-1, a Histidine-Rich Antimicrobial Peptide from Red Sea Bream. Biochemistry, 2007, 46, 15175-15187.	2.5	44
112	Self-Promoted Cellular Uptake of Peptide/DNA Transfection Complexes. Biochemistry, 2007, 46, 11253-11262.	2.5	50
113	The Membrane Alignment of Helical Peptides from Non-oriented15N Chemical Shift Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2007, 129, 8430-8431.	13.7	32
114	Zwitterionic Phospholipids and Sterols Modulate Antimicrobial Peptide-Induced Membrane Destabilization. Biophysical Journal, 2007, 93, 4289-4299.	0.5	139
115	Optimising histidine rich peptides for efficient DNA delivery in the presence of serum. Journal of Controlled Release, 2007, 118, 95-104.	9.9	56
116	Structure, dynamics and topology of membrane polypeptides by oriented 2H solid-state NMR spectroscopy. European Biophysics Journal, 2007, 36, 451-460.	2.2	31
117	Helix orientations in membrane-associated Bcl-XL determined by 15N-solid-state NMR spectroscopy. European Biophysics Journal, 2007, 37, 71-80.	2.2	17
118	Characterization of the gene transfer process mediated by histidine-rich peptides. Journal of Molecular Medicine, 2007, 85, 191-201.	3.9	56
119	A spectroscopic study of the membrane interaction of the antimicrobial peptide Pleurocidin. Molecular Membrane Biology, 2006, 23, 185-194.	2.0	53
120	The antibiotic and DNAâ€transfecting peptide LAH4 selectively associates with, and disorders, anionic lipids in mixed membranes. FASEB Journal, 2006, 20, 320-322.	0.5	90
121	Cationic amphipathic histidine-rich peptides for gene delivery. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 301-307.	2.6	116
122	Detergent-like actions of linear amphipathic cationic antimicrobial peptides. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1529-1539.	2.6	501
123	Proton-decoupled 15N and 31P solid-state NMR investigations of the Pf3 coat protein in oriented phospholipid bilayers. FEBS Journal, 2006, 273, 817-828.	4.7	15
124	Translocation of amino acyl residues from the membrane interface to the hydrophobic core: thermodynamic model and experimental analysis using ATR-FTIR spectroscopy. Molecular Membrane Biology, 2006, 23, 363-374.	2.0	24
125	Enhanced Membrane Disruption and Antibiotic Action against Pathogenic Bacteria by Designed Histidine-Rich Peptides at Acidic pH. Antimicrobial Agents and Chemotherapy, 2006, 50, 3305-3311.	3.2	86
126	Structure and Dynamics of Membrane-associated ICP47, a Viral Inhibitor of the MHC I Antigen-processing Machinery. Journal of Biological Chemistry, 2006, 281, 30365-30372.	3.4	58

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127	Interactions Involved in the Realignment of Membrane-associated Helices. Journal of Biological Chemistry, 2006, 281, 7708-7716.	3.4	37
128	Topological Equilibria of Ion Channel Peptides in Oriented Lipid Bilayers Revealed by 15N Solid-State NMR Spectroscopy. Biochemistry, 2005, 44, 12120-12127.	2.5	15
129	Detergent-like properties of magainin antibiotic peptides: A 31P solid-state NMR spectroscopy study. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1712, 101-108.	2.6	90
130	Structure and Function of Membrane-Lytic Peptides. Critical Reviews in Plant Sciences, 2004, 23, 271-292.	5.7	97
131	Peptide-related alterations of membrane-associated water: deuterium solid-state NMR investigations of phosphatidylcholine membranes at different hydration levels. Magnetic Resonance in Chemistry, 2004, 42, 155-161.	1.9	18
132	Investigations of Polypeptide Rotational Diffusion in Aligned Membranes by 2H and 15N Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2004, 126, 16676-16683.	13.7	76
133	Tilt and Rotational Pitch Angle of Membrane-Inserted Polypeptides from Combined15N and2H Solid-State NMR Spectroscopyâ€. Biochemistry, 2004, 43, 10502-10512.	2.5	65
134	The alignment, structure and dynamics of membrane-associated polypeptides by solid-state NMR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1666, 190-204.	2.6	62
135	Alignment and structural analysis of membrane polypeptides by15N and31P solid-state NMR spectroscopy. Concepts in Magnetic Resonance, 2003, 18A, 130-145.	1.3	102
136	Histidine-rich amphipathic peptide antibiotics promote efficient delivery of DNA into mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1564-1568.	7.1	212
137	Bilayer Sample for Fast or Slow Magic Angle Oriented Sample Spinning Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2002, 124, 1146-1147.	13.7	50
138	15N and 31P Solid-State NMR Investigations on the Orientation of Zervamicin II and Alamethicin in Phosphatidylcholine Membranes. Biochemistry, 2001, 40, 9428-9437.	2.5	82
139	Membrane Insertion and Orientation of Polyalanine Peptides: A 15N Solid-State NMR Spectroscopy Investigation. Biophysical Journal, 2001, 81, 2251-2256.	0.5	48
140	Understanding peptide interactions with the lipid bilayer: a guide to membrane protein engineering. Current Opinion in Chemical Biology, 2000, 4, 639-644.	6.1	44
141	The Topology of Lysine-Containing Amphipathic Peptides in Bilayers by Circular Dichroism, Solid-State NMR, and Molecular Modeling. Biophysical Journal, 2000, 79, 2644-2656.	0.5	68
142	Membrane interactions and alignment of structures within the HIV-1 Vpu cytoplasmic domain: effect of phosphorylation of serines 52 and 56. FEBS Letters, 2000, 482, 220-224.	2.8	46
143	Refinement of the Geometry of the Retinal Binding Pocket in Dark-Adapted Bacteriorhodopsin by Heteronuclear Solid-State NMR Distance Measurements. Biochemistry, 2000, 39, 10066-10071.	2.5	24
144	Alignment of Lysine-Anchored Membrane Peptides under Conditions of Hydrophobic Mismatch:Â A CD,15N and31P Solid-State NMR Spectroscopy Investigation. Biochemistry, 2000, 39, 13106-13114.	2.5	125

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145	The Interactions of Histidine-containing Amphipathic Helical Peptide Antibiotics with Lipid Bilayers. Journal of Biological Chemistry, 1999, 274, 29115-29121.	3.4	153
146	Peptide structural analysis by solid-state NMR spectroscopy. , 1999, 51, 174-190.		76
147	The structure, dynamics and orientation of antimicrobial peptides in membranes by multidimensional solid-state NMR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1462, 157-183.	2.6	435
148	The Alignment of a Voltage-Sensing Peptide in Dodecylphosphocholine Micelles and in Oriented Lipid Bilayers by Nuclear Magnetic Resonance and Molecular Modeling. Biophysical Journal, 1999, 77, 2102-2113.	0.5	27
149	Membrane Helix Orientation from Linear Dichroism of Infrared Attenuated Total Reflection Spectra. Biophysical Journal, 1999, 76, 552-563.	0.5	141
150	Solution Structure and Orientation of the Transmembrane Anchor Domain of the HIV-1-Encoded Virus Protein U by High-Resolution and Solid-State NMR Spectroscopy. Biochemistry, 1999, 38, 5272-5282.	2.5	74
151	Towards Membrane Protein Design: pH-sensitive Topology of Histidine-containing Polypeptides. Journal of Molecular Biology, 1996, 263, 768-775.	4.2	193
152	Structure and orientation of the antibiotic peptide magainin in membranes by solidâ€state nuclear magnetic resonance spectroscopy. Protein Science, 1993, 2, 2077-2084.	7.6	367
153	Interaction of electric dipoles with phospholipid head groups. A deuterium and phosphorus-31 NMR study of phloretin and phloretin analogs in phosphatidylcholine membranes. Biochemistry, 1991, 30, 3923-3929.	2.5	110