Anne S Ulrich

List of Publications by Year
in descending order

296 papers	12,276 citations	19657 61 h-index	46799 89 g-index
308 all docs	308 docs citations	308 times ranked	11920 citing authors

#	Article	IF	Citations
1	Damage of the Bacterial Cell Envelope by Antimicrobial Peptides Gramicidin S and PGLa as Revealed by Transmission and Scanning Electron Microscopy. Antimicrobial Agents and Chemotherapy, 2010, 54, 3132-3142.	3.2	417
2	Biophysical Aspects of Using Liposomes as Delivery Vehicles. Bioscience Reports, 2002, 22, 129-150.	2.4	393
3	Heterogeneous Structure of Silk Fibers fromBombyxmoriResolved by13C Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2002, 124, 8794-8795.	13.7	215
4	Screening and Characterization of Surface-Tethered Cationic Peptides for Antimicrobial Activity. Chemistry and Biology, 2009, 16, 58-69.	6.0	197
5	Synergistic Interaction between Silver Nanoparticles and Membrane-Permeabilizing Antimicrobial Peptides. Antimicrobial Agents and Chemotherapy, 2009, 53, 3538-3540.	3.2	189
6	Concentration-Dependent Realignment of the Antimicrobial Peptide PGLa in Lipid Membranes Observed by Solid-State 19F-NMR. Biophysical Journal, 2005, 88, 3392-3397.	0.5	151
7	Solid state 19F NMR methods for studying biomembranes. Progress in Nuclear Magnetic Resonance Spectroscopy, 2005, 46, 1-21.	7.5	146
8	Controlling Biological Activity with Light: Diarylethene‐Containing Cyclic Peptidomimetics. Angewandte Chemie - International Edition, 2014, 53, 3392-3395.	13.8	140
9	NMR methods for studying membrane-active antimicrobial peptides. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2004, 23A, 89-120.	0.5	128
10	Preferential Uptake of L- versus D-Amino Acid Cell-Penetrating Peptides in a Cell Type-Dependent Manner. Chemistry and Biology, 2011, 18, 1000-1010.	6.0	126
11	Hydration of DOPC bilayers by differential scanning calorimetry. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1191, 225-230.	2.6	120
12	2H-NMR Study and Molecular Dynamics Simulation of the Location, Alignment, and Mobility of Pyrene in POPC Bilayers. Biophysical Journal, 2005, 88, 1818-1827.	0.5	117
13	Membrane-bound structure and alignment of the antimicrobial beta-sheet peptide gramicidin S derived from angular and distance constraints by solid state 19F-NMR. Journal of Biomolecular NMR, 2001, 21, 191-208.	2.8	116
14	Synthesis of Trifluoromethyl‐Substituted Proline Analogues as ¹⁹F‐NMR Labels for Peptides in the Polyproline‐II Conformation. Angewandte Chemie - International Edition, 2008, 47, 5765-5767.	13.8	115
15	Membrane-Active Peptides and the Clustering of Anionic Lipids. Biophysical Journal, 2012, 103, 265-274.	0.5	115
16	Peptoidic Amino- and Guanidinium-Carrier Systems: Targeted Drug Delivery into the Cell Cytosol or the Nucleus. Journal of Medicinal Chemistry, 2008, 51, 376-379.	6.4	113
17	4-Fluorophenylglycine as a Label for 19F NMR Structure Analysis of Membrane-Associated Peptides. ChemBioChem, 2003, 4, 1151-1163.	2.6	111
18	Orientation of the antimicrobial peptide PGLa in lipid membranes determined from 19F-NMR dipolar couplings of 4-CF3-phenylglycine labels. Journal of Magnetic Resonance, 2004, 168, 153-163.	2.1	110

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19	Solid-State NMR Analysis of the PGLa Peptide Orientation in DMPC Bilayers: Structural Fidelity of 2H-Labels versus High Sensitivity of 19F-NMR. Biophysical Journal, 2006, 90, 1676-1686.	0.5	110
20	Conformation and Membrane Orientation of Amphiphilic Helical Peptides by Oriented Circular Dichroism. Biophysical Journal, 2008, 95, 3872-3881.	0.5	109
21	A Cell-penetrating Peptide Derived from Human Lactoferrin with Conformation-dependent Uptake Efficiency. Journal of Biological Chemistry, 2009, 284, 36099-36108.	3.4	105
22	Conformationally Rigid Trifluoromethyl-Substituted Î±-Amino Acid Designed for Peptide Structure Analysis by Solid-State19F NMR Spectroscopy. Angewandte Chemie - International Edition, 2006, 45, 5659-5661.	13.8	103
23	Orientation and Dynamics of Peptides in Membranes Calculated from 2H-NMR Data. Biophysical Journal, 2009, 96, 3223-3232.	0.5	99
24	Synergistic Insertion of Antimicrobial Magainin-Family Peptides inÂMembranes Depends on the Lipid Spontaneous Curvature. Biophysical Journal, 2013, 104, L9-L11.	0.5	99
25	Synergistic Transmembrane Alignment of the Antimicrobial Heterodimer PGLa/Magainin. Journal of Biological Chemistry, 2006, 281, 32089-32094.	3.4	97
26	Lipid shape is a key factor for membrane interactions of amphipathic helical peptides. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1764-1776.	2.6	96
27	Nonequilibrium structure of Zn2SnO4 spinel nanoparticles. Journal of Materials Chemistry, 2012, 22, 3117.	6.7	96
28	Resemblance of Electrospun Collagen Nanofibers to Their Native Structure. Langmuir, 2013, 29, 1562-1572.	3.5	91
29	Hydrophobic mismatch of mobile transmembrane helices: Merging theory and experiments. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1242-1249.	2.6	88
30	Synergistic Effect of Membrane-Active Peptides Polymyxin B and Gramicidin S on Multidrug-Resistant Strains and Biofilms of Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2015, 59, 5288-5296.	3.2	88
31	Interaction of Zn2+ with phospholipid membranes. Biophysical Chemistry, 2001, 90, 57-74.	2.8	87
32	Conditions affecting the re-alignment of the antimicrobial peptide PGLa in membranes as monitored by solid state 2H-NMR. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1330-1342.	2.6	87
33	Temperature-Dependent Transmembrane Insertion of the Amphiphilic Peptide PGLa in Lipid Bilayers Observed by Solid State ¹⁹F NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 16512-16514.	13.7	87
34	Bilayer-Mediated Clustering and Functional Interaction of MscL Channels. Biophysical Journal, 2011, 100, 1252-1260.	0.5	87
35	Oriented Circular Dichroism: A Method to Characterize Membrane-Active Peptides in Oriented Lipid Bilayers. Accounts of Chemical Research, 2016, 49, 184-192.	15.6	87
36	Influence of C-terminal amidation on the antimicrobial and hemolytic activities of cationic Î±-helical peptides. Pure and Applied Chemistry, 2007, 79, 717-728.	1.9	86

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37	Structure-Activity Analysis of the Dermcidin-derived Peptide DCD-1L, an Anionic Antimicrobial Peptide Present in Human Sweat. Journal of Biological Chemistry, 2012, 287, 8434-8443.	3.4	85
38	Molecular mechanism of synergy between the antimicrobial peptides PGLa and magainin 2. Scientific Reports, 2017, 7, 13153.	3.3	84
39	How reliable are molecular dynamics simulations of membrane active antimicrobial peptides?. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2280-2288.	2.6	83
40	Influence of the Length and Charge on the Activity of Î±-Helical Amphipathic Antimicrobial Peptides. Biochemistry, 2017, 56, 1680-1695.	2.5	83
41	Distorted Structure of the Retinal Chromophore in Bacteriorhodopsin Resolved by 2H-NMR. Biochemistry, 1994, 33, 5370-5375.	2.5	81
42	Synergistic transmembrane insertion of the heterodimeric PGLa/magainin 2 complex studied by solid-state NMR. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1667-1679.	2.6	79
43	Membrane Fusion Is Induced by a Distinct Peptide Sequence of the Sea Urchin Fertilization Protein Bindin. Journal of Biological Chemistry, 1998, 273, 16748-16755.	3.4	77
44	Solid-State NMR Analysis Comparing the Designer-Made Antibiotic MSI-103 with Its Parent Peptide PGLa in Lipid Bilayers. Biochemistry, 2008, 47, 2601-2616.	2.5	77
45	Self-Assembly of Flexible Î²-Strands into Immobile Amyloid-Like Î²-Sheets in Membranes As Revealed by Solid-State 19F NMR. Journal of the American Chemical Society, 2012, 134, 6512-6515.	13.7	76
46	Using the Peptide Bp100 as a Cellâ€Penetrating Tool for the Chemical Engineering of Actin Filaments within Living Plant Cells. ChemBioChem, 2011, 12, 132-137.	2.6	75
47	13C Chemical Shift Constrained Crystal Structure Refinement of Cellulose Iβand Its Verification by NMR Anisotropy Experiments. Macromolecules, 2006, 39, 6125-6132.	4.8	74
48	Membrane Alignment of the Pore-Forming Component TatA_d of the Twin-Arginine Translocase from Bacillus subtilis Resolved by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 15945-15956.	13.7	74
49	Structural role of tyrosine in Bombyx mori silk fibroin, studied by solid-state NMR and molecular mechanics on a model peptide prepared as silk I and II. Magnetic Resonance in Chemistry, 2004, 42, 258-266.	1.9	70
50	Using a Sterically Restrictive Amino Acid as a 19F NMR label To Monitor and To Control Peptide Aggregation in Membranes. Journal of the American Chemical Society, 2008, 130, 16515-16517.	13.7	70
51	Short Cationic Antimicrobial Peptides Interact with ATP. Antimicrobial Agents and Chemotherapy, 2010, 54, 4480-4483.	3.2	70
52	The Cell-Penetrating Peptide TAT(48-60) Induces a Non-Lamellar Phase in DMPC Membranes. ChemPhysChem, 2006, 7, 2134-2142.	2.1	69
53	Solid-State 19F-NMR of Peptides in Native Membranes. Topics in Current Chemistry, 2011, 306, 89-118.	4.0	69
54	Solid state 19F NMR parameters of fluorine-labeled amino acids. Part II: Aliphatic substituents. Journal of Magnetic Resonance, 2008, 191, 16-23.	2.1	68

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55	Fluorinated amino acids in amyloid formation: a symphony of size, hydrophobicity and Î±-helix propensity. Chemical Science, 2014, 5, 819-830.	7.4	67
56	Structure determination of the cyclohexene ring of retinal in bacteriorhodopsin by solid-state deuterium NMR. Biochemistry, 1992, 31, 10390-10399.	2.5	66
57	Labile or Stable: Can Homoleptic and Heteroleptic PyrPHOSâ€“Copper Complexes Be Processed from Solution?. Inorganic Chemistry, 2014, 53, 7837-7847.	4.0	66
58	â€˜Boomerangâ€™-like insertion of a fusogenic peptide in a lipid membrane revealed by solid-state 19 F NMR. Magnetic Resonance in Chemistry, 2004, 42, 195-203.	1.9	65
59	Optimized Protocol for Synthesis of Cyclic Gramicidin S:Â Starting Amino Acid Is Key to High Yield. Journal of Organic Chemistry, 2006, 71, 55-61.	3.2	65
60	Chemical Labeling Strategy with (R)- and (S)-Trifluoromethylalanine for Solid State ¹⁹F NMR Analysis of Peptaibols in Membranes. Journal of the American Chemical Society, 2009, 131, 15596-15597.	13.7	65
61	Re-orientation of retinal in the M-photointermediate of bacteriorhodopsin. Nature Structural and Molecular Biology, 1995, 2, 190-192.	8.2	64
62	Membrane Association Landscape of Myelin Basic Protein Portrays Formation of the Myelin Major Dense Line. Scientific Reports, 2017, 7, 4974.	3.3	63
63	Membrane Thickening by the Antimicrobial Peptide PGLa. Biophysical Journal, 2008, 95, 5779-5788.	0.5	62
64	Direct Photocontrol of Peptidomimetics: An Alternative to Oxygenâ€Dependent Photodynamic Cancer Therapy. Angewandte Chemie - International Edition, 2016, 55, 5493-5496.	13.8	62
65	3D Hydrophobic Moment Vectors as a Tool to Characterize the Surface Polarity of Amphiphilic Peptides. Biophysical Journal, 2014, 106, 2385-2394.	0.5	61
66	Hydrophobic Matching Controls the Tilt and Stability of the Dimeric Platelet-derived Growth Factor Receptor (PDGFR) Î² Transmembrane Segment. Journal of Biological Chemistry, 2012, 287, 26178-26186.	3.4	60
67	Antimicrobial and cell-penetrating peptides induce lipid vesicle fusion by folding and aggregation. European Biophysics Journal, 2012, 41, 177-187.	2.2	60
68	Antibiotic gold: tethering of antimicrobial peptides to gold nanoparticles maintains conformational flexibility of peptides and improves trypsin susceptibility. Biomaterials Science, 2017, 5, 817-827.	5.4	60
69	Folding and Self-Assembly of the TatA Translocation Pore Based on a Charge Zipper Mechanism. Cell, 2013, 152, 316-326.	28.9	59
70	Membrane Thinning and Thickening Induced by Membrane-Active Amphipathic Peptides. Frontiers in Cell and Developmental Biology, 2016, 4, 65.	3.7	59
71	Loosening of Lipid Packing Promotes Oligoarginine Entry into Cells. Angewandte Chemie - International Edition, 2017, 56, 7644-7647.	13.8	59
72	Structure Analysis of a Fusogenic Peptide Sequence from the Sea Urchin Fertilization Protein Bindinâ€. Biochemistry, 1999, 38, 2560-2569.	2.5	58

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73	Membrane permeation of arginine-rich cell-penetrating peptides independent of transmembrane potential as a function of lipid composition and membrane fluidity. Journal of Controlled Release, 2017, 256, 68-78.	9.9	58
74	Solid state 19F NMR parameters of fluorine-labeled amino acids. Part I: Aromatic substituents. Journal of Magnetic Resonance, 2008, 191, 7-15.	2.1	57
75	¹⁹F NMR Analysis of the Antimicrobial Peptide PGLa Bound to Native Cell Membranes from Bacterial Protoplasts and Human Erythrocytes. Journal of the American Chemical Society, 2010, 132, 8822-8824.	13.7	57
76	Oriented Circular Dichroism Analysis of Chiral Surfaceâ€Anchored Metalâ€“Organic Frameworks Grown by Liquidâ€Phase Epitaxy and upon Loading with Chiral Guest Compounds. Chemistry - A European Journal, 2014, 20, 9879-9882.	3.3	57
77	Enhanced Amphiphilic Profile of a Short Î²-Stranded Peptide Improves Its Antimicrobial Activity. PLoS ONE, 2015, 10, e0116379.	2.5	57
78	2H NMR lineshapes of immobilized uniaxially oriented membrane proteins. Solid State Nuclear Magnetic Resonance, 1993, 2, 21-36.	2.3	56
79	Ultrastructural Characterization of Peptide-Induced Membrane Fusion and Peptide Self-Assembly in the Lipid Bilayer. Biophysical Journal, 1999, 77, 829-841.	0.5	56
80	Interaction of mastoparan with membranes studied by 1 H-NMR spectroscopy in detergent micelles and by solid-state 2 H-NMR and 15 N-NMR spectroscopy in oriented lipid bilayers. FEBS Journal, 2001, 268, 302-309.	0.2	56
81	Solid-State 19F-NMR Analysis of 19F-Labeled Tryptophan in Gramicidin A in Oriented Membranes. Biophysical Journal, 2002, 83, 3336-3350.	0.5	56
82	Structure of (KIAGKIA)3 Aggregates in Phospholipid Bilayers by Solid-State NMR. Biophysical Journal, 2004, 87, 675-687.	0.5	56
83	Variable angle NMR spectroscopy and its application to the measurement of residual chemical shift anisotropy. Journal of Magnetic Resonance, 2011, 209, 19-30.	2.1	56
84	Î³-(S)-Trifluoromethyl proline: evaluation as a structural substitute of proline for solid state 19F-NMR peptide studies. Organic and Biomolecular Chemistry, 2015, 13, 3171-3181.	2.8	56
85	Anisotropic Organization and Microscopic Manipulation of Self-Assembling Synthetic Porphyrin Microrods That Mimic Chlorosomes: Bacterial Light-Harvesting Systems. Journal of the American Chemical Society, 2012, 134, 944-954.	13.7	55
86	Transient Potential Gradients and Impedance Measures of Tethered BilayerÂLipid Membranes: Pore-Forming Peptide Insertion and the Effect ofÂElectroporation. Biophysical Journal, 2014, 106, 182-189.	0.5	55
87	The Ability ofAneurinibacillus migulanus(Bacillus brevis) To Produce the Antibiotic Gramicidin S Is Correlated with Phenotype Variation. Applied and Environmental Microbiology, 2007, 73, 6620-6628.	3.1	54
88	Evaluating the amino acid CF₃â€bicyclopentylglycine as a new label for solidâ€state ¹⁹Fâ€NMR structure analysis of membraneâ€bound peptides. Journal of Peptide Science, 2007, 13, 614-623.	1.4	53
89	Click chemistry produces hyper-cross-linked polymers with tetrahedral cores. New Journal of Chemistry, 2011, 35, 1577.	2.8	53
90	Transformation of the matrix structure of shrimp shells during bacterial deproteination and demineralization. Microbial Cell Factories, 2013, 12, 90.	4.0	53

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91	Hydrophobic mismatch demonstrated for membranolytic peptides and their use as molecular rulers to measure bilayer thickness in native cells. Scientific Reports, 2015, 5, 9388.	3.3	52
92	Hydration of DMPC and DPPC at 4Â°C produces a novel subgel phase with convexâ€“concave bilayer curvatures. Chemistry and Physics of Lipids, 2000, 105, 149-166.	3.2	51
93	Reorientation and Dimerization of the Membrane-Bound Antimicrobial Peptide PGLa from Microsecond All-Atom MD Simulations. Biophysical Journal, 2012, 103, 472-482.	0.5	51
94	Title is missing!. Journal of Biomolecular NMR, 1997, 10, 95-106.	2.8	50
95	Susceptibility corrections in solid-state NMR experiments with oriented membrane samples. Part I: applications. Journal of Magnetic Resonance, 2003, 164, 104-114.	2.1	50
96	Peptide-Lipid Interactions of the Stress-Response Peptide TisB That Induces Bacterial Persistence. Biophysical Journal, 2012, 103, 1460-1469.	0.5	50
97	Dynamical structure of the short multifunctional peptide BP100 in membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 940-949.	2.6	50
98	Curvature Engineering: Positive Membrane Curvature Induced by Epsin N-Terminal Peptide Boosts Internalization of Octaarginine. ACS Chemical Biology, 2013, 8, 1894-1899.	3.4	49
99	Influence of hydrophobic residues on the activity of the antimicrobial peptide magainin 2 and its synergy with PGLa. Journal of Peptide Science, 2015, 21, 436-445.	1.4	49
100	A ¹⁹Fâ€…NMR Label to Substitute Polar Amino Acids in Peptides: A CF₃â€Substituted Analogue of Serine and Threonine. Angewandte Chemie - International Edition, 2013, 52, 1486-1489.	13.8	48
101	Membrane protein structure: the contribution and potential of novel solid state NMR approaches (Review). Molecular Membrane Biology, 1995, 12, 233-246.	2.0	47
102	Solid-State ¹⁹F NMR Spectroscopy Reveals That Trp₄₁ Participates in the Gating Mechanism of the M2 Proton Channel of Influenza A Virus. Journal of the American Chemical Society, 2008, 130, 918-924.	13.7	47
103	Hydrogen-Bonding Structure of Serine Side Chains inBombyx moriandSamia cynthia riciniSilk Fibroin Determined by Solid-State2H NMR. Macromolecules, 1999, 32, 7166-7171.	4.8	46
104	Solid State NMR Structure Analysis of the Antimicrobial Peptide GramicidinÂS in Lipid Membranes: Concentration-Dependent Re-alignment and Self-Assembly as aÂÎ²-Barrel. Topics in Current Chemistry, 2008, 273, 139-154.	4.0	46
105	Structure Analysis and Conformational Transitions of the Cell Penetrating Peptide Transportan 10 in the Membrane-Bound State. PLoS ONE, 2014, 9, e99653.	2.5	46
106	Transmembrane helix assembly and the role of salt bridges. Current Opinion in Structural Biology, 2014, 27, 63-68.	5.7	45
107	Inhibition of Pseudomonas aeruginosa biofilm formation and expression of virulence genes by selective epimerization in the peptide Esculentinâ€1a(1â€21)<scp>NH</scp>₂. FEBS Journal, 2019, 286, 3874-3891.	4.7	45
108	2H-Labeling of Silk Fibroin Fibers and Their Structural Characterization by Solid-State2H NMR. Macromolecules, 1997, 30, 2429-2435.	4.8	44

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109	An optimized protocol for the multigram synthesis of 3-(trifluoromethyl)bicyclo[1.1.1]pent-1-ylglycine (CF3-Bpg). Journal of Fluorine Chemistry, 2010, 131, 217-220.	1.7	44
110	Dynamic Transitions of Membrane-Active Peptides. Methods in Molecular Biology, 2010, 618, 183-207.	0.9	44
111	Incorporation of cis- and trans-4,5-Difluoromethanoprolines into Polypeptides. Organic Letters, 2012, 14, 5254-5257.	4.6	44
112	AMPs and OMPs: Is the folding and bilayer insertion of Î²-stranded outer membrane proteins governed by the same biophysical principles as for Î±-helical antimicrobial peptides?. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1944-1954.	2.6	44
113	Intermolecular Packing in B. mori Silk Fibroin: Multinuclear NMR Study of the Model Peptide (Ala-Gly)₁₅ Defines a Heterogeneous Antiparallel Antipolar Mode of Assembly in the Silk II Form. Macromolecules, 2015, 48, 28-36.	4.8	43
114	Design, Synthesis, and Application of an Optimized Monofluorinated Aliphatic Label for Peptide Studies by Solidâ€Štate ¹⁹Fâ€...NMR Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 14788-14792.	13.8	43
115	â€œForce-from-lipidsâ€•gating of mechanosensitive channels modulated by PUFAs. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 158-167.	3.1	43
116	Structure analysis of the protein translocating channel TatA in membranes using a multi-construct approach. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2627-2634.	2.6	41
117	A Novel Dendrimeric Peptide with Antimicrobial Properties: Structure-Function Analysis of SB056. Biophysical Journal, 2012, 102, 1039-1048.	0.5	41
118	Atomic resolution view into the structureâ€“function relationships of the human myelin peripheral membrane protein P2. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 165-176.	2.5	41
119	Structureâ€“Activity Relationships of Photoswitchable Diarylethene-Based Î²-Hairpin Peptides as Membranolytic Antimicrobial and Anticancer Agents. Journal of Medicinal Chemistry, 2018, 61, 10793-10813.	6.4	41
120	Molecular structure and function of myelin protein P0 in membrane stacking. Scientific Reports, 2019, 9, 642.	3.3	41
121	Structural Parameters from19F Homonuclear Dipolar Couplings, Obtained by Multipulse Solid-State NMR on Static and Oriented Systems. Journal of Magnetic Resonance, 1999, 138, 98-106.	2.1	40
122	Influence of Whole-Body Dynamics on 15N PISEMA NMR Spectra of Membrane Proteins: A Theoretical Analysis. Biophysical Journal, 2009, 96, 3233-3241.	0.5	40
123	Local Structural Disorder and Relaxation in SnO₂ Nanostructures Studied by ¹¹⁹Sn MAS NMR and ¹¹⁹Sn MÃ¶ssbauer Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 6433-6437.	3.1	40
124	Orientation-Dependent 19F Dipolar Couplings within a Trifluoromethyl Group Are Revealed by Static Multipulse NMR in the Solid State. Journal of Magnetic Resonance, 2000, 146, 81-88.	2.1	39
125	Structural characterization of the pore forming protein TatAd of the twin-arginine translocase in membranes by solid-state 15N-NMR. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 3071-3079.	2.6	39
126	A critical evaluation of the conformational requirements of fusogenic peptides in membranes. European Biophysics Journal, 2007, 36, 405-413.	2.2	39

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127	Irregular structure of the HIV fusion peptide in membranes demonstrated by solid-state NMR and MD simulations. European Biophysics Journal, 2011, 40, 529-543.	2.2	38
128	Lactam-Stapled Cell-Penetrating Peptides: Cell Uptake and Membrane Binding Properties. Journal of Medicinal Chemistry, 2017, 60, 8071-8082.	6.4	38
129	Nucleophilic displacement reactions on tosyl cellulose by chiral amines. Polymer Bulletin, 2001, 46, 7-13.	3.3	37
130	A Peptidic Unconjugated GRP78/BiP Ligand Modulates the Unfolded Protein Response and Induces Prostate Cancer Cell Death. PLoS ONE, 2012, 7, e45690.	2.5	37
131	Efficiently Photocontrollable or Not? Biological Activity of Photoisomerizable Diarylethenes. Chemistry - A European Journal, 2018, 24, 11245-11254.	3.3	37
132	Action of the multifunctional peptide BP100 on native biomembranes examined by solid-state NMR. Journal of Biomolecular NMR, 2015, 61, 287-298.	2.8	36
133	Homo- and heteromeric interaction strengths of the synergistic antimicrobial peptides PGLa and magainin 2 in membranes. European Biophysics Journal, 2016, 45, 535-547.	2.2	35
134	Stereochemical effects on the aggregation and biological properties of the fibril-forming peptide [KIGAKI]3 in membranes. Physical Chemistry Chemical Physics, 2013, 15, 8962.	2.8	33
135	Cell surface clustering of heparan sulfate proteoglycans by amphipathic cell-penetrating peptides does not contribute to uptake. Journal of Controlled Release, 2013, 170, 83-91.	9.9	33
136	19F NMR screening of unrelated antimicrobial peptides shows that membrane interactions are largely governed by lipids. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2260-2268.	2.6	33
137	Rational modification of a dendrimeric peptide with antimicrobial activity: consequences on membrane-binding and biological properties. Amino Acids, 2016, 48, 887-900.	2.7	33
138	Dynamics of the Tyrosine Side Chain inBombyxmoriandSamiacynthiariciniSilk Fibroin Studied by Solid State2H NMR. Macromolecules, 1999, 32, 8491-8495.	4.8	32
139	Alanine scan and 2 H NMR analysis of the membrane-active peptide BP100 point to a distinct carpet mechanism of action. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1328-1338.	2.6	32
140	Susceptibility corrections in solid state NMR experiments with oriented membrane samples. Part II: Theory. Journal of Magnetic Resonance, 2003, 164, 115-127.	2.1	31
141	2H-NMR and MD Simulations Reveal Membrane-Bound Conformation of Magainin 2 and Its Synergy with PGLa. Biophysical Journal, 2016, 111, 2149-2161.	0.5	31
142	Challenge Integrity: The Cell-Penetrating Peptide BP100 Interferes with the Auxinâ€“Actin Oscillator. Plant and Cell Physiology, 2017, 58, pcw161.	3.1	31
143	Calculation of fluorine chemical shift tensors for the interpretation of oriented 19F-NMR spectra of gramicidin A in membranes. Physical Chemistry Chemical Physics, 2009, 11, 7048.	2.8	30
144	Electrochemical insertion of lithium in mechanochemically synthesized Zn2SnO4. Physical Chemistry Chemical Physics, 2011, 13, 19624.	2.8	30

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145	Structure of the Membrane Anchor of Pestivirus Glycoprotein Erns, a Long Tilted Amphipathic Helix. PLoS Pathogens, 2014, 10, e1003973.	4.7	30
146	Direct Photocontrol of Peptidomimetics: An Alternative to Oxygenâ€Dependent Photodynamic Cancer Therapy. Angewandte Chemie, 2016, 128, 5583-5586.	2.0	30
147	Extending the Hydrophobic Mismatch Concept to Amphiphilic Membranolytic Peptides. Journal of Physical Chemistry Letters, 2016, 7, 1116-1120.	4.6	30
148	Supreme activity of gramicidin S against resistant, persistent and biofilm cells of staphylococci and enterococci. Scientific Reports, 2019, 9, 17938.	3.3	30
149	Incorporation of labile trans-4,5-difluoromethanoproline into a peptide as a stable label for 19F NMR structure analysis. Journal of Fluorine Chemistry, 2013, 152, 136-143.	1.7	29
150	The dependence of phospholipid head-group mobility on hydration as studied by deuterium-NMR spin-lattice relaxation time measurements. Chemistry and Physics of Lipids, 1990, 55, 61-66.	3.2	28
151	Lipid headgroup hydration studied by 2H-NMR: A link between spectroscopy and thermodynamics. Biophysical Chemistry, 1994, 49, 39-50.	2.8	28
152	All-atom molecular dynamics simulations using orientational constraints from anisotropic NMR samples. Journal of Biomolecular NMR, 2007, 38, 23-39.	2.8	27
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