Erik Strandberg

List of Publications by Year
in descending order

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65	3,297	117625	144013
papers	citations	34 h-index	57 g-index

66	66	66	2609
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antibiotic Potential and Biophysical Characterization of Amphipathic Î²-Stranded [XZ]n Peptides With Alternating Cationic and Hydrophobic Residues. Frontiers in Medical Technology, 2021, 3, 622096.	2.5	1
2	Overlapping Properties of the Short Membrane-Active Peptide BP100 With (i) Polycationic TAT and (ii) Î±-helical Magainin Family Peptides. Frontiers in Cellular and Infection Microbiology, 2021, 11, 609542.	3.9	9
3	Membrane Interactions of Latarcins: Antimicrobial Peptides from Spider Venom. International Journal of Molecular Sciences, 2021, 22, 10156.	4.1	7
4	Flow charts for the systematic solid-state 19F/2H-NMR structure analysis of membrane-bound peptides. Annual Reports on NMR Spectroscopy, 2020, , 79-118.	1.5	2
5	Phosphate-dependent aggregation of [KL]n peptides affects their membranolytic activity. Scientific Reports, 2020, 10, 12300.	3.3	12
6	Structural and functional characterization of the pore-forming domain of pinholin S2168. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29637-29646.	7.1	9
7	Chiral supramolecular architecture of stable transmembrane pores formed by an Î±-helical antibiotic peptide in the presence of lyso-lipids. Scientific Reports, 2020, 10, 4710.	3.3	10
8	Terminal charges modulate the pore forming activity of cationic amphipathic helices. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183243.	2.6	17
9	Roles of Amphipathicity and Hydrophobicity in the Micelleâ€Driven Structural Switch of a 14â€mer Peptide Core from a Cholineâ€Binding Repeat. Chemistry - A European Journal, 2018, 24, 5825-5839.	3.3	7
10	New insights into the influence of monofluorination on dimyristoylphosphatidylcholine membrane properties: A solid-state NMR study. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 654-663.	2.6	6
11	Best of Two Worlds? How MD Simulations of Amphiphilic Helical Peptides in Membranes Can Complement Data from Oriented Solid-State NMR. Journal of Chemical Theory and Computation, 2018, 14, 6002-6014.	5.3	12
12	Helix Fraying and Lipid-Dependent Structure of a Short Amphipathic Membrane-Bound Peptide Revealed by Solid-State NMR. Journal of Physical Chemistry B, 2018, 122, 6236-6250.	2.6	12
13	Solid-State 19F-NMR Analysis of Peptides in Oriented Biomembranes. , 2018, , 651-667.		1
14	Solid-State NMR for Studying Peptide Structures and Peptide-Lipid Interactions in Membranes. , 2018, , 1985-1996.		1
15	Influence of the Length and Charge on the Activity of Î±-Helical Amphipathic Antimicrobial Peptides. Biochemistry, 2017, 56, 1680-1695.	2.5	83
16	Molecular mechanism of synergy between the antimicrobial peptides PGLa and magainin 2. Scientific Reports, 2017, 7, 13153.	3.3	84
17	Structure analysis of the membrane-bound dermcidin-derived peptide SSL-25 from human sweat. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 2308-2318.	2.6	7
18	Solid-State NMR for Studying Peptide Structures and Peptide-Lipid Interactions in Membranes. , 2017, , 1-13.		2

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19	Solid-State 19F-NMR Analysis of Peptides in Oriented Biomembranes. , 2017, , 1-18.		2
20	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
21	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
22	Extending the Hydrophobic Mismatch Concept to Amphiphilic Membranolytic Peptides. Journal of Physical Chemistry Letters, 2016, 7, 1116-1120.	4.6	30
23	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
24	Micelleâ€Triggered Î²â€Hairpin to Î±â€Helix Transition in a 14â€Residue Peptide from a Cholineâ€Binding Repeat of the Pneumococcal Autolysin LytA. Chemistry - A European Journal, 2015, 21, 8076-8089.	3.3	16
25	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
26	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
27	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
28	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
29	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
30	How reliable are molecular dynamics simulations of membrane active antimicrobial peptides?. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2280-2288.	2.6	83
31	Length-Dependent Activity of Membrane-Bound Cationic Amphipathic Alpha-Helical Peptides. Biophysical Journal, 2014, 106, 292a.	0.5	1
32	Dynamical structure of the short multifunctional peptide BP100 in membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 940-949.	2.6	50
33	3D Hydrophobic Moment Vectors as a Tool to Characterize the Surface Polarity of Amphiphilic Peptides. Biophysical Journal, 2014, 106, 2385-2394.	0.5	61
34	CHAPTER 16. Dynamic Structure Analysis of Peptides in Membranes by Solid-State NMR. New Developments in NMR, 2014, , 304-319.	0.1	3
35	Canonical Azimuthal Rotations and Flanking Residues Constrain theÂOrientation of Transmembrane Helices. Biophysical Journal, 2013, 104, 1508-1516.	0.5	3
36	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

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37	Synergistic Insertion of Antimicrobial Magainin-Family Peptides inÂMembranes Depends on the Lipid Spontaneous Curvature. Biophysical Journal, 2013, 104, L9-L11.	0.5	99
38	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
39	Hydrophobic mismatch of mobile transmembrane helices: Merging theory and experiments. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1242-1249.	2.6	88
40	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
41	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
42	Comparative analysis of the orientation of transmembrane peptides using solid-state 2H- and 15N-NMR: mobility matters. European Biophysics Journal, 2012, 41, 475-482.	2.2	22
43	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
44	Solid state NMR analysis of peptides in membranes: Influence of dynamics and labeling scheme. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 252-257.	2.6	20
45	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
46	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
47	Orientation and Dynamics of Peptides in Membranes Calculated from 2H-NMR Data. Biophysical Journal, 2009, 96, 3223-3232.	0.5	99
48	Conformation and Membrane Orientation of Amphiphilic Helical Peptides by Oriented Circular Dichroism. Biophysical Journal, 2008, 95, 3872-3881.	0.5	109
49	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
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	Using Fluorinated Amino Acids for Structure Analysis of Membrane-Active Peptides by Solid-State 19F-NMR. ACS Symposium Series, 2007, , 431-446.	0.5	11
52	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
53	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
54	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

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55	Synergistic Transmembrane Alignment of the Antimicrobial Heterodimer PGLa/Magainin. Journal of Biological Chemistry, 2006, 281, 32089-32094.	3.4	97
56	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
57	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
58	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
59	Tilt Angles of Transmembrane Model Peptides in Oriented and Non-Oriented Lipid Bilayers as Determined by 2H Solid-State NMR. Biophysical Journal, 2004, 86, 3709-3721.	0.5	172
60	Snorkeling of lysine side chains in transmembrane helices: how easy can it get?. FEBS Letters, 2003, 544, 69-73.	2.8	181
61	Lipid Dependence of Membrane Anchoring Properties and Snorkeling Behavior of Aromatic and Charged Residues in Transmembrane Peptidesâ€. Biochemistry, 2002, 41, 7190-7198.	2.5	106
62	Geometry and Intrinsic Tilt of a Tryptophan-Anchored Transmembrane Î±-Helix Determined by 2H NMR. Biophysical Journal, 2002, 83, 1479-1488.	0.5	161
63	Phase diagrams of systems with cationic Î±-helical membrane-spanning model peptides and dioleoylphosphatidylcholine. Advances in Colloid and Interface Science, 2001, 89-90, 239-261.	14.7	12
64	Î±-Methylene ordering of acyl chains differs in glucolipids and phosphatidylglycerol from Acholeplasma laidlawii membranes: 2H-NMR quadrupole splittings from individual lipids in mixed bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1468, 329-344.	2.6	7
65	Influence of transmembrane peptides on bilayers of phosphatidylcholines with different acyl chain lengths studied by solid-state NMR. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1509, 335-345.	2.6	13