Frances Separovic

List of Publications by Year
in descending order

316 papers	12,391 citations	24978 57 h-index	39575 94 g-index
322 all docs	322 docs citations	322 times ranked	11781 citing authors

#	Article	IF	Citations
1	Characterisation of cell membrane interaction mechanisms of antimicrobial peptides by electrical bilayer recording. Biophysical Chemistry, 2022, 281, 106721.	1.5	12
2	NMR spectroscopy of lipidic cubic phases. Biophysical Reviews, 2022, 14, 67-74.	1.5	8
3	Spectroscopic study of L-DOPA and dopamine binding on novel gold nanoparticles towards more efficient drug-delivery system for Parkinsonâ€™s disease. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 268, 120707.	2.0	10
4	Enhancing proline-rich antimicrobial peptide action by homodimerization: influence of bifunctional linker. Chemical Science, 2022, 13, 2226-2237.	3.7	28
5	Multi-Omic Analysis to Characterize Metabolic Adaptation of the E. coli Lipidome in Response to Environmental Stress. Metabolites, 2022, 12, 171.	1.3	9
6	NMR measurement of biomolecular translational and rotational motion for evaluating changes of protein oligomeric state in solution. European Biophysics Journal, 2022, 51, 193-204.	1.2	3
7	Peptide Multimerization as Leads for Therapeutic Development. Biologics, 2022, 2, 15-44.	2.3	4
8	Ultrasound-induced protein restructuring and ordered aggregation to form amyloid crystals. European Biophysics Journal, 2022, 51, 335-352.	1.2	6
9	Transformation of L-DOPA and Dopamine on the Surface of Gold Nanoparticles: An NMR and Computational Study. Inorganic Chemistry, 2022, 61, 10781-10791.	1.9	1
10	The impact of antibacterial peptides on bacterial lipid membranes depends on stage of growth. Faraday Discussions, 2021, 232, 399-418.	1.6	10
11	Chemical Exchange of Hydroxyl Groups in Lipidic Cubic Phases Characterized by NMR. Journal of Physical Chemistry B, 2021, 125, 571-580.	1.2	5
12	NMR Chemical Shift and Methylation of 4-Nitroimidazole: Experiment and Theory. Australian Journal of Chemistry, 2021, 74, 48.	0.5	2
13	In-Cell Solid-State NMR Analysis of Membrane Proteins. Australian Journal of Chemistry, 2021, 74, 362-363.	0.5	1
14	C-terminus amidation influences biological activity and membrane interaction of maculatin 1.1. Amino Acids, 2021, 53, 769-777.	1.2	11
15	Expression and purification of the native Câ€amidated antimicrobial peptide maculatin 1.1. Journal of Peptide Science, 2021, 27, e3330.	0.8	5
16	Structural Disruptions of the Outer Membranes of Gram-Negative Bacteria by Rationally Designed Amphiphilic Antimicrobial Peptides. ACS Applied Materials & Interfaces, 2021, 13, 16062-16074.	4.0	39
17	Polarization Transfer to External Nuclear Spins Using Ensembles of Nitrogen-Vacancy Centers. Physical Review Applied, 2021, 15, .	1.5	19
18	Utilizing magnetic resonance techniques to study membrane interactions of amyloid peptides. Biochemical Society Transactions, 2021, 49, 1457-1465.	1.6	5

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19	TOAC spin-labeled peptides tailored for DNP-NMR studies in lipid membrane environments. Biophysical Journal, 2021, 120, 4501-4511.	0.2	5
20	Chemically modified and conjugated antimicrobial peptides against superbugs. Chemical Society Reviews, 2021, 50, 4932-4973.	18.7	220
21	Prospects for nuclear spin hyperpolarization of molecular samples using nitrogen-vacancy centers in diamond. Physical Review B, 2021, 103, .	1.1	19
22	Water diffusion in complex systems measured by PGSEÂNMR using chemical shift selective stimulated echo: Elimination of magnetization exchange effects. Journal of Chemical Physics, 2021, 155, 224203.	1.2	2
23	How do Self-Assembling Antimicrobial Lipopeptides Kill Bacteria?. ACS Applied Materials & Interfaces, 2020, 12, 55675-55687.	4.0	35
24	(Re)Defining the Proline-Rich Antimicrobial Peptide Family and the Identification of Putative New Members. Frontiers in Chemistry, 2020, 8, 607769.	1.8	31
25	Physiochemical Characterization and Stability of Lipidic Cubic Phases by Solution NMR. Langmuir, 2020, 36, 6254-6260.	1.6	8
26	In-Cell Structure Determination of an Antimicrobial Peptide by DNP Solid-State NMR. Biophysical Journal, 2020, 118, 193a.	0.2	0
27	The Location of the Antimicrobial Peptide Maculatin 1.1 in Model Bacterial Membranes. Frontiers in Chemistry, 2020, 8, 572.	1.8	6
28	Insights into the Effect of the Membrane Environment on the Three-dimensional Structure-function Relationship of Antimicrobial Peptides. Biophysical Journal, 2020, 118, 236a.	0.2	1
29	Solid-State NMR Study of Live Bacteria in the Presence of Antimicrobial Agents. Biophysical Journal, 2020, 118, 343a-344a.	0.2	0
30	The antimicrobial peptide maculatin self assembles in parallel to form a pore in phospholipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183204.	1.4	22
31	A multifunctional surfactant catalyst inspired by hydrolases. Science Advances, 2020, 6, eaaz0404.	4.7	41
32	In-cell Solid-State NMR Studies of Antimicrobial Peptides. Frontiers in Medical Technology, 2020, 2, 610203.	1.3	10
33	The Conformations of Virginiamycin M1 Diacetate, an Inhibitor of Guinea Pig Brain CCK-B Receptors, in Selected Solvents. Australian Journal of Chemistry, 2020, 73, 230.	0.5	0
34	Phote-HrTH (Phormia terraenovae Hypertrehalosaemic Hormone), the Metabolic Hormone of the Fruit Fly: Solution Structure and Receptor Binding Model. Australian Journal of Chemistry, 2020, 73, 202.	0.5	4
35	Nitroxide spinâ€“labeled peptides for DNPâ€NMR inâ€cell studies. FASEB Journal, 2019, 33, 11021-11027.	0.2	27
36	Heteronuclear NMR spectroscopy of proteins encapsulated in cubic phase lipids. Journal of Magnetic Resonance, 2019, 305, 146-151.	1.2	11

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37	The role of bacterial lipid diversity and membrane properties in modulating antimicrobial peptide activity and drug resistance. Current Opinion in Chemical Biology, 2019, 52, 85-92.	2.8	62
38	Combating bacterial resistance by combination of antibiotics with antimicrobial peptides. Pure and Applied Chemistry, 2019, 91, 199-209.	0.9	44
39	Metallo-Cubosomes: Zinc-Functionalized Cubic Nanoparticles for Therapeutic Nucleotide Delivery. Molecular Pharmaceutics, 2019, 16, 978-986.	2.3	24
40	Cholesterol-Dependent Cytolysins: Membrane and Protein Structural Requirements for Pore Formation. Chemical Reviews, 2019, 119, 7721-7736.	23.0	35
41	Membrane biophysics session. Biophysical Reviews, 2019, 11, 283-284.	1.5	1
42	Biophysics & Structural Biology at Synchrotrons BSBS 2019 Biological NMR Session. Biophysical Reviews, 2019, 11, 531-532.	1.5	1
43	In Situ Monitoring of Bacteria under Antimicrobial Stress Using 31P Solid-State NMR. International Journal of Molecular Sciences, 2019, 20, 181.	1.8	34
44	Covalent conjugation of cationic antimicrobial peptides with a Î²â€lactam antibiotic core. Peptide Science, 2018, 110, e24059.	1.0	31
45	Interaction of cationic antimicrobial peptides from Australian frogs with lipid membranes. Peptide Science, 2018, 110, e24061.	1.0	16
46	Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. Cell Chemical Biology, 2018, 25, 380-391.e5.	2.5	57
47	Frontispiece: Antimicrobial Peptide Structures: From Model Membranes to Live Cells. Chemistry - A European Journal, 2018, 24, .	1.7	0
48	19F NMR studies provide insights into lipid membrane interactions of listeriolysin O, a pore forming toxin from Listeria monocytogenes. Scientific Reports, 2018, 8, 6894.	1.6	13
49	Fluorescence imaging of the interaction of amyloid beta 40 peptides with live cells and model membrane. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1609-1615.	1.4	10
50	Interaction of N-terminal peptide analogues of the Na+,K+-ATPase with membranes. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1282-1291.	1.4	26
51	Aggregation kinetics in the presence of brain lipids of AÎ²(1â€“40) cleaved from a soluble fusion protein. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1681-1686.	1.4	7
52	Effect of phosphatidylcholine bilayer thickness and molecular order on the binding of the antimicrobial peptide maculatin 1.1. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 300-309.	1.4	20
53	Antimicrobial Peptide Structures: From Model Membranes to Live Cells. Chemistry - A European Journal, 2018, 24, 286-291.	1.7	24
54	Measuring translational diffusion of 15N-enriched biomolecules in complex solutions with a simplified 1H-15N HMQC-filtered BEST sequence. European Biophysics Journal, 2018, 47, 891-902.	1.2	9

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55	Elucidating the bactericidal mechanism of action of the linear antimicrobial tetrapeptide BRBR-NH2. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1517-1527.	1.4	12
56	Effect of dimerized melittin on gastric cancer cells and antibacterial activity. Amino Acids, 2018, 50, 1101-1110.	1.2	20
57	Listeriolysinâ€…O Binding Affects Cholesterol and Phospholipid Acyl Chain Dynamics in Fluid Cholesterolâ€Rich Bilayers. Chemistry - A European Journal, 2018, 24, 14220-14225.	1.7	8
58	Stability and activity of lysozyme in stoichiometric and non-stoichiometric protic ionic liquid (PIL)-water systems. Journal of Chemical Physics, 2018, 148, 193838.	1.2	37
59	Incorporation of antimicrobial peptides in nanostructured lipid membrane mimetic bilayer cubosomes. Colloids and Surfaces B: Biointerfaces, 2017, 152, 143-151.	2.5	61
60	Orientation and Location of the Cyclotide Kalata B1 in Lipid Bilayers Revealed by Solid-State NMR. Biophysical Journal, 2017, 112, 630-642.	0.2	19
61	A QCMâ€D and SAXS Study of the Interaction of Functionalised Lyotropic Liquid Crystalline Lipid Nanoparticles with siRNA. ChemBioChem, 2017, 18, 921-930.	1.3	22
62	Atomic Force Microscopy Studies of the Interaction of Antimicrobial Peptides with Bacterial Cells. Australian Journal of Chemistry, 2017, 70, 130.	0.5	2
63	Fluorescent Ion Efflux Screening Assay for Determining Membrane-Active Peptides. Australian Journal of Chemistry, 2017, 70, 220.	0.5	3
64	Glycine Substitution Reduces Antimicrobial Activity and Helical Stretch of diPGLa-H in Lipid Micelles. Journal of Physical Chemistry B, 2017, 121, 4817-4822.	1.2	9
65	One pathogen two stones: are Australian tree frog antimicrobial peptides synergistic against human pathogens?. European Biophysics Journal, 2017, 46, 639-646.	1.2	10
66	Role of the Tryptophan-Rich Motif of Listeriolysin O in Membrane Binding. Biophysical Journal, 2017, 112, 524a.	0.2	2
67	Membrane Insertion of a Dinuclear Ruthenium Complex and Implications for Antibacterial Activity. Biophysical Journal, 2017, 112, 380a.	0.2	1
68	An In-Cell Solid-State NMR Portrayal of the Action Mechanism of Antimicrobial Peptides with Intact Bacteria. Biophysical Journal, 2017, 112, 23a.	0.2	0
69	Relaxin family peptides: structureâ€"activity relationship studies. British Journal of Pharmacology, 2017, 174, 950-961.	2.7	72
70	Predicting the release profile of small molecules from within the ordered nanostructured lipidic bicontinuous cubic phase using translational diffusion coefficients determined by PFG-NMR. Nanoscale, 2017, 9, 2471-2478.	2.8	38
71	Lipidic Cubic Phase-Induced Membrane Protein Crystallization: Interplay Between Lipid Molecular Structure, Mesophase Structure and Properties, and Crystallogenesis. Crystal Growth and Design, 2017, 17, 5667-5674.	1.4	16
72	Amphiphilic lipopeptide significantly enhances uptake of charge-neutral splice switching morpholino oligonucleotide in spinal muscular atrophy patient-derived fibroblasts. International Journal of Pharmaceutics, 2017, 532, 21-28.	2.6	14

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73	Zinc-coordination and C-peptide complexation: a potential mechanism for the endogenous inhibition of IAPP aggregation. Chemical Communications, 2017, 53, 9394-9397.	2.2	21
74	Copolyampholytes Produced from RAFT Polymerization of Protic Ionic Liquids. Macromolecules, 2017, 50, 8965-8978.	2.2	13
75	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. ACS Infectious Diseases, 2017, 3, 606-619.	1.8	25
76	Implications of peptide assemblies in amyloid diseases. Chemical Society Reviews, 2017, 46, 6492-6531.	18.7	262
77	Membrane-Mimetic Inverse Bicontinuous Cubic Phase Systems for Encapsulation of Peptides and Proteins. Advances in Biomembranes and Lipid Self-Assembly, 2017, , 63-94.	0.3	5
78	Phosphorylation of a full length amyloid-Î² peptide modulates its amyloid aggregation, cell binding and neurotoxic properties. Molecular BioSystems, 2017, 13, 1545-1551.	2.9	24
79	Câ€Terminal Modification and Multimerization Increase the Efficacy of a Prolineâ€Rich Antimicrobial Peptide. Chemistry - A European Journal, 2017, 23, 390-396.	1.7	28
80	A nanomechanical study of the effects of colistin on the Klebsiella pneumoniae AJ218 capsule. European Biophysics Journal, 2017, 46, 351-361.	1.2	12
81	Chemical Synthesis and Characterization of an Equinatoxin II(1â€“85) Analogue. Molecules, 2017, 22, 559.	1.7	2
82	The Effect of Selective D- or NÎ±-Methyl Arginine Substitution on the Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. Frontiers in Chemistry, 2017, 5, 1.	1.8	96
83	Membrane-active peptides, IUPAB/EBSA symposium, Edinburgh. Biophysical Reviews, 2017, 9, 283-284.	1.5	0
84	The efficient synthesis and purification of amyloid-Î²(1â€“42) using an oligoethylene glycol-containing photocleavable lysine tag. Chemical Communications, 2017, 53, 6903-6905.	2.2	14
85	Localisation of the Antimicrobial Peptide Maculatin 1.1 in Lipid Bilayers using Solid-State NMR. Biophysical Journal, 2016, 110, 78a.	0.2	0
86	How Membrane-Active Peptides Get into Lipid Membranes. Accounts of Chemical Research, 2016, 49, 1130-1138.	7.6	331
87	Innentitelbild: A Oneâ€Pot Chemically Cleavable Bisâ€Linker Tether Strategy for the Synthesis of Heterodimeric Peptides (Angew. Chem. 47/2016). Angewandte Chemie, 2016, 128, 14688-14688.	1.6	0
88	Exploring the structural relationship between encapsulated antimicrobial peptides and the bilayer membrane mimetic lipidic cubic phase: studies with gramicidin Aâ€². RSC Advances, 2016, 6, 68685-68694.	1.7	22
89	Activity and conformation of lysozyme in molecular solvents, protic ionic liquids (PILs) and saltâ€“water systems. Physical Chemistry Chemical Physics, 2016, 18, 25926-25936.	1.3	35
90	A Oneâ€Pot Chemically Cleavable Bisâ€Linker Tether Strategy for the Synthesis of Heterodimeric Peptides. Angewandte Chemie - International Edition, 2016, 55, 14552-14556.	7.2	21

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91	Micelle formation of a non-ionic surfactant in non-aqueous molecular solvents and protic ionic liquids (PILs). Physical Chemistry Chemical Physics, 2016, 18, 24377-24386.	1.3	35
92	Antimicrobial Peptides Share a Common Interaction Driven by Membrane Line Tension Reduction. Biophysical Journal, 2016, 111, 2176-2189.	0.2	51
93	Interaction of the antimicrobial peptides caerin 1.1 and aurein 1.2 with intact bacteria by 2 H solid-state NMR. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2959-2964.	1.4	45
94	A Oneâ€Pot Chemically Cleavable Bisâ€Linker Tether Strategy for the Synthesis of Heterodimeric Peptides. Angewandte Chemie, 2016, 128, 14772-14776.	1.6	5
95	Membrane Insertion of a Dinuclear Polypyridylruthenium(II) Complex Revealed by Solid-State NMR and Molecular Dynamics Simulation: Implications for Selective Antibacterial Activity. Journal of the American Chemical Society, 2016, 138, 15267-15277.	6.6	30
96	Total Chemical Synthesis of an Intraâ€Aâ€Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. Angewandte Chemie - International Edition, 2016, 55, 14743-14747.	7.2	45
97	Total Chemical Synthesis of an Intraâ€Aâ€Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. Angewandte Chemie, 2016, 128, 14963-14967.	1.6	18
98	Hypercrosslinked Additives for Ageless Gasâ€Separation Membranes. Angewandte Chemie, 2016, 128, 2038-2041.	1.6	17
99	The C-terminus of the B-chain of human insulin-like peptide 5 is critical for cognate RXFP4 receptor activity. Amino Acids, 2016, 48, 987-992.	1.2	17
100	Hypercrosslinked Additives for Ageless Gasâ€Separation Membranes. Angewandte Chemie - International Edition, 2016, 55, 1998-2001.	7.2	105
101	Engineering of a Novel Simplified Human Insulin-Like Peptide 5 Agonist. Journal of Medicinal Chemistry, 2016, 59, 2118-2125.	2.9	30
102	Membrane interactions of proline-rich antimicrobial peptide, Chex1-Arg20, multimers. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1236-1243.	1.4	30
103	Atomic force microscopy of bacteria reveals the mechanobiology of pore forming peptide action. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1091-1098.	1.4	42
104	Amyloid Beta (Aβ) Peptide and Factors that Play Important Roles in Alzheimerâ€™s Disease. Current Medicinal Chemistry, 2016, 23, 884-892.	1.2	25
105	Structure and Membrane Topology of the Pore-Forming Peptide Maculatin 1.1. Biophysical Journal, 2015, 108, 549a.	0.2	2
106	Model Membrane and Cell Studies of Antimicrobial Activity of Melittin Analogues. Current Topics in Medicinal Chemistry, 2015, 16, 40-45.	1.0	60
107	Synthetic Covalently Linked Dimeric Form of H2 Relaxin Retains Native RXFP1 Activity and Has Improved<i>In Vitro</i>Serum Stability. BioMed Research International, 2015, 2015, 1-9.	0.9	13
108	Site of fluorescent label modifies interaction of melittin with live cells and model membranes. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2031-2039.	1.4	14

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109	Bacteria May Cope Differently from Similar Membrane Damage Caused by the Australian Tree Frog Antimicrobial Peptide Maculatin 1.1. Journal of Biological Chemistry, 2015, 290, 19853-19862.	1.6	51
110	Subtle Differences in Initial Membrane Interactions Underpin the Selectivity of Small Antimicrobial Peptides. ChemPlusChem, 2015, 80, 91-96.	1.3	11
111	Proline-15 creates an amphipathic wedge in maculatin 1.1 peptides that drives lipid membrane disruption. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2277-2289.	1.4	24
112	Cellular Disulfide Bond Formation in Bioactive Peptides and Proteins. International Journal of Molecular Sciences, 2015, 16, 1791-1805.	1.8	47
113	Characterization of the Lipid-Binding Site of Equinatoxin II by NMR and Molecular Dynamics Simulation. Biophysical Journal, 2015, 108, 1987-1996.	0.2	42
114	Atomic Force Microscopy Reveals the Mechanobiology of Lytic Peptide Action on Bacteria. Langmuir, 2015, 31, 6164-6171.	1.6	48
115	Progression of NMR studies of membrane-active peptides from lipid bilayers to live cells. Journal of Magnetic Resonance, 2015, 253, 138-142.	1.2	19
116	The Prototypic Cyclotide Kalata B1 Has a Unique Mechanism of Entering Cells. Chemistry and Biology, 2015, 22, 1087-1097.	6.2	71
117	C-Terminal Modifications Broaden Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. Australian Journal of Chemistry, 2015, 68, 1373.	0.5	17
118	Multimerization of a Proline-Rich Antimicrobial Peptide, Chex-Arg20, Alters Its Mechanism of Interaction with the Escherichia coli Membrane. Chemistry and Biology, 2015, 22, 1250-1258.	6.2	53
119	Membrane accessibility of glutathione. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2430-2436.	1.4	12
120	Melittin peptides exhibit different activity on different cells and model membranes. Amino Acids, 2014, 46, 2759-2766.	1.2	61
121	Cyclization enhances function of linear anti-arthritic peptides. Clinical Immunology, 2014, 150, 121-133.	1.4	9
122	Membrane interactions and biological activity of antimicrobial peptides from Australian scorpion. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2140-2148.	1.4	28
123	2â€Nitroveratryl as a Photocleavable Thiolâ€Protecting Group for Directed Disulfide Bond Formation in the Chemical Synthesis of Insulin. Chemistry - A European Journal, 2014, 20, 9549-9552.	1.7	48
124	Proline-rich antimicrobial peptides: potential therapeutics against antibiotic-resistant bacteria. Amino Acids, 2014, 46, 2287-2294.	1.2	158
125	Measuring translational diffusion coefficients of peptides and proteins by PFG-NMR using band-selective RF pulses. European Biophysics Journal, 2014, 43, 331-339.	1.2	30
126	Modelling the Interactions of Equinatoxin II with Micelles. Biophysical Journal, 2014, 106, 89a.	0.2	0

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127	Modelling the Interactions of Equinatoxin II with Micelles. Biophysical Journal, 2014, 106, 297a.	0.2	0
128	Comparison of reversible membrane destabilisation induced by antimicrobial peptides derived from Australian frogs. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2205-2215.	1.4	20
129	The investigation of membrane binding by amphibian peptide agonists of CCK2R using 31P and 2H solid-state NMR. Peptides, 2014, 55, 98-102.	1.2	3
130	Dye-release assay for investigation of antimicrobial peptide activity in a competitive lipid environment. European Biophysics Journal, 2014, 43, 445-450.	1.2	43
131	CHAPTER 15. Solid-State NMR Studies of Antimicrobial Peptide Interactions with Specific Lipid Environments. New Developments in NMR, 2014, , 287-303.	0.1	6
132	The Importance of Tryptophan B28 in H2 Relaxin for RXFP2 Binding and Activation. International Journal of Peptide Research and Therapeutics, 2013, 19, 55-60.	0.9	4
133	Structural effects of the antimicrobial peptide maculatin 1.1 on supported lipid bilayers. European Biophysics Journal, 2013, 42, 47-59.	1.2	45
134	Controlling nanostructure and lattice parameter of the inverse bicontinuous cubic phases in functionalised phytantriol dispersions. Journal of Colloid and Interface Science, 2013, 408, 117-124.	5.0	29
135	Antimicrobial Peptide Activity in a Competitive Membrane Lipid Environment. Biophysical Journal, 2013, 104, 20a-21a.	0.2	0
136	Membrane Interactions of the Alzheimer's Disease Aî²42 Peptide andÂa Soluble Aî²42 Fusion Protein. Biophysical Journal, 2013, 104, 238a.	0.2	0
137	Proline Facilitates Membrane Insertion of the Antimicrobial Peptide Maculatin 1.1 via Surface Indentation and Subsequent Lipid Disordering. Biophysical Journal, 2013, 104, 1495-1507.	0.2	52
138	Membrane defects enhance the interaction of antimicrobial peptides, aurein 1.2 versus caerin 1.1. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1863-1872.	1.4	37
139	Maculatin 1.1 Disrupts Staphylococcus aureus Lipid Membranes via a Pore Mechanism. Antimicrobial Agents and Chemotherapy, 2013, 57, 3593-3600.	1.4	44
140	Total Chemical Synthesis of a Heterodimeric Interchain Bis-Lactam-Linked Peptide: Application to an Analogue of Human Insulin-Like Peptide 3. International Journal of Peptides, 2013, 2013, 1-8.	0.7	13
141	Synthesis of fluorescent analogs of relaxin family peptides and their preliminary in vitro and in vivo characterization. Frontiers in Chemistry, 2013, 1, 30.	1.8	7
142	A practical implementation of de-Pake-ing via weighted Fourier transformation. PeerJ, 2013, 1, e30.	0.9	13
143	Identification of Key Residues Essential for the Structural Fold and Receptor Selectivity within the A-chain of Human Gene-2 (H2) Relaxin. Journal of Biological Chemistry, 2012, 287, 41152-41164.	1.6	21
144	Copper Modulation of Amyloid Beta 42 Interactions with Model Membranes. Australian Journal of Chemistry, 2012, 65, 472.	0.5	12

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145	Surface Immobilization of Bio-Functionalized Cubosomes: Sensing of Proteins by Quartz Crystal Microbalance. Langmuir, 2012, 28, 620-627.	1.6	35
146	Disentanglement of Heterogeneous Solid-State NMR Parameter Measurements in Model Membranes. Biophysical Journal, 2012, 102, 492a.	0.2	0
147	The antimicrobial peptide aurein 1.2 disrupts model membranes via the carpet mechanism. Physical Chemistry Chemical Physics, 2012, 14, 15739.	1.3	153
148	Minimization of Human Relaxin-3 Leading to High-Affinity Analogues with Increased Selectivity for Relaxin-Family Peptide 3 Receptor (RXFP3) over RXFP1. Journal of Medicinal Chemistry, 2012, 55, 1671-1681.	2.9	84
149	Lipid composition regulates the conformation and insertion of the antimicrobial peptide maculatin 1.1. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 205-211.	1.4	56
150	Membrane protein structure and function. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 125.	1.4	0
151	Electrochemistry of Room Temperature Protic Ionic Liquids: A Critical Assessment for Use as Electrolytes in Electrochemical Applications. Journal of Physical Chemistry B, 2012, 116, 9160-9170.	1.2	94
152	Host-defense peptides of Australian anurans. Part 2. Structure, activity, mechanism of action, and evolutionary significance. Peptides, 2012, 37, 174-188.	1.2	62
153	Copper Modulates Aβ42 Aggregation in Model Membranes. Biophysical Journal, 2012, 102, 488a-489a.	0.2	0
154	Human relaxin-2: historical perspectives and role in cancer biology. Amino Acids, 2012, 43, 1131-1140.	1.2	31
155	The lipid network. Biophysical Reviews, 2012, 4, 283-290.	1.5	8
156	Antimicrobial Peptide Recognition of Bacterial Membranes. Biophysical Journal, 2011, 100, 334a.	0.2	0
157	Modeling the Membrane Environment for Membrane Proteins. Biophysical Journal, 2011, 100, 2073-2074.	0.2	16
158	Disentanglement of Heterogeneous Dynamics in Mixed Lipid Systems. Biophysical Journal, 2011, 100, L40-L42.	0.2	15
159	Development of Cubosomes as a Cell-Free Biosensing Platform. Australian Journal of Chemistry, 2011, 64, 46.	0.5	23
160	Preparation and biological evaluation of self-assembled cubic phases for the polyvalent inhibition of cholera toxin. Soft Matter, 2011, 7, 6125.	1.2	12
161	Stereospecific interactions are necessary for Alzheimer disease amyloid-β toxicity. Neurobiology of Aging, 2011, 32, 235-248.	1.5	49
162	Lipid matrix plays a role in Abeta fibril kinetics and morphology. FEBS Letters, 2011, 585, 749-754.	1.3	77

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163	QCM-D fingerprinting of membrane-active peptides. European Biophysics Journal, 2011, 40, 437-446.	1.2	108
164	Interactions of a synthetic Leuâ€"Lys-rich antimicrobial peptide with phospholipid bilayers. European Biophysics Journal, 2011, 40, 471-480.	1.2	25
165	Special issue on membrane-active peptides. European Biophysics Journal, 2011, 40, 347-348.	1.2	3
166	General method for selective labelling of doubleâ€chain cysteineâ€rich peptides with a lanthanide chelate via solidâ€phase synthesis. Journal of Peptide Science, 2011, 17, 169-173.	0.8	13
167	Design and development of analogues of dimers of insulinâ€like peptide 3 Bâ€chain as highâ€affinity antagonists of the RXFP2 receptor. Biopolymers, 2011, 96, 81-87.	1.2	23
168	The Relaxin Peptide Family â€" Structure, Function and Clinical Applications. Protein and Peptide Letters, 2011, 18, 220-229.	0.4	46
169	Interactions of the Antimicrobial Peptide Maculatin 1.1 and Analogues with Phospholipid Bilayers. Australian Journal of Chemistry, 2011, 64, 798.	0.5	18
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