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	Effect of Alkali Cations on Aluminum Incorporation in Geopolymeric Gels. Industrial & Engineering Chemistry Research, 2005, 44, 832-839.	1.8	369
2	29Si NMR Study of Structural Ordering in Aluminosilicate Geopolymer Gels. Langmuir, 2005, 21, 3028-3036.	1.6	362
3	How Membrane-Active Peptides Get into Lipid Membranes. Accounts of Chemical Research, 2016, 49, 1130-1138.	7.6	331
4	Implications of peptide assemblies in amyloid diseases. Chemical Society Reviews, 2017, 46, 6492-6531.	18.7	262
5	Electrochemistry of Room Temperature Protic Ionic Liquids. Journal of Physical Chemistry B, 2008, 112, 6923-6936.	1.2	254
6	Interfacial Anchor Properties of Tryptophan Residues in Transmembrane Peptides Can Dominate over Hydrophobic Matching Effects in Peptideâ˜Lipid Interactionsâ€. Biochemistry, 2003, 42, 5341-5348.	1.2	251
7	Chemically modified and conjugated antimicrobial peptides against superbugs. Chemical Society Reviews, 2021, 50, 4932-4973.	18.7	220
8	Direct Visualization of Membrane Leakage Induced by the Antibiotic Peptides: Maculatin, Citropin, and Aurein. Biophysical Journal, 2005, 89, 1874-1881.	0.2	214
9	Host-defence peptides of Australian anurans: structure, mechanism of action and evolutionary significance. Peptides, 2004, 25, 1035-1054.	1.2	209
10	Neurotoxic, Redox-competent Alzheimer's Î²-Amyloid Is Released from Lipid Membrane by Methionine Oxidation. Journal of Biological Chemistry, 2003, 278, 42959-42965.	1.6	176
11	Surface Behavior and Lipid Interaction of Alzheimer Î²-Amyloid Peptide 1â€“42: A Membrane-Disrupting Peptide. Biophysical Journal, 2005, 88, 2706-2713.	0.2	172
12	Copper-mediated Amyloid-Î² Toxicity Is Associated with an Intermolecular Histidine Bridge*. Journal of Biological Chemistry, 2006, 281, 15145-15154.	1.6	170
13	Structure and Orientation of the Pore-forming Peptide Melittin, in Lipid Bilayers. Journal of Molecular Biology, 1994, 241, 456-466.	2.0	165
14	Amyloid-Î² Peptide Disruption of Lipid Membranes and the Effect of Metal Ions. Journal of Molecular Biology, 2006, 356, 759-770.	2.0	160
15	Proline-rich antimicrobial peptides: potential therapeutics against antibiotic-resistant bacteria. Amino Acids, 2014, 46, 2287-2294.	1.2	158
16	Conformation and Orientation of Gramicidin a in Oriented Phospholipid Bilayers Measured by Solid State Carbon-13 NMR. Biophysical Journal, 1988, 53, 67-76.	0.2	154
17	The antimicrobial peptide aurein 1.2 disrupts model membranes via the carpet mechanism. Physical Chemistry Chemical Physics, 2012, 14, 15739.	1.3	153
18	Specific and Selective Peptide-Membrane Interactions Revealed Using Quartz Crystal Microbalance. Biophysical Journal, 2007, 93, 3907-3916.	0.2	135

#	Article	IF	Citations
19	Interaction of antimicrobial peptides from Australian amphibians with lipid membranes. Chemistry and Physics of Lipids, 2003, 122, 107-120.	1.5	131
20	Preparation of protic ionic liquids with minimal water content and 15N NMR study of proton transfer. Physical Chemistry Chemical Physics, 2010, 12, 1571.	1.3	127
21	Non-Newtonian viscous shear thinning in ionic liquids. Soft Matter, 2010, 6, 2080.	1.2	121
22	Membrane thickness and acyl chain length. Biochimica Et Biophysica Acta - Biomembranes, 1983, 733, 189-193.	1.4	108
23	QCM-D fingerprinting of membrane-active peptides. European Biophysics Journal, 2011, 40, 437-446.	1.2	108
24	Membrane interactions of antimicrobial peptides from Australian tree frogs. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1178-1183.	1.4	105
25	Hypercrosslinked Additives for Ageless Gasâ€Separation Membranes. Angewandte Chemie - International Edition, 2016, 55, 1998-2001.	7.2	105
26	A Multidimensional 1H NMR Investigation of the Conformation of Methionine-Enkephalin in Fast-Tumbling Bicelles. Biophysical Journal, 2004, 86, 1587-1600.	0.2	102
27	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
28	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
29	Selective permeabilization of the host cell membrane of Plasmodium falciparum-infected red blood cells with streptolysin O and equinatoxin II. Biochemical Journal, 2007, 403, 167-175.	1.7	93
30	Determination of the structure of a membrane-incorporated ion channel. Solid-state nuclear magnetic resonance studies of gramicidin A. Biophysical Journal, 1989, 56, 307-314.	0.2	91
31	Surface behaviour and peptideâ€“lipid interactions of the antibiotic peptides, Maculatin and Citropin. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1664, 31-37.	1.4	90
32	Methionine regulates copper/hydrogen peroxide oxidation products of AÎ². Journal of Peptide Science, 2005, 11, 353-360.	0.8	88
33	Physicochemical Characterization and Stability of Rifampicin Liposome Dry Powder Formulations for Inhalation. Journal of Pharmaceutical Sciences, 2009, 98, 628-639.	1.6	88
34	Chapter 1 The Human Insulin Superfamily of Polypeptide Hormones. Vitamins and Hormones, 2009, 80, 1-31.	0.7	88
35	Interaction of the Eukaryotic Pore-forming Cytolysin Equinatoxin II with Model Membranes: 19F NMR Studies. Journal of Molecular Biology, 2005, 347, 27-39.	2.0	87
36	Membrane interactions of antimicrobial peptides from Australian frogs. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1630-1638.	1.4	87

#	Article	IF	Citations
37	Modeling Speciation in Highly Concentrated Alkaline Silicate Solutions. Industrial & Engineering Chemistry Research, 2005, 44, 8899-8908.	1.8	86
38	Gramicidin channel controversy--the structure in a lipid environment. Nature Structural Biology, 1999, 6, 609-609.	9.7	84
39	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
40	The molecular packing and stability within highly curved phospholipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1980, 598, 405-410.	1.4	83
41	39K NMR of Free Potassium in Geopolymers. Industrial & Engineering Chemistry Research, 2006, 45, 9208-9210.	1.8	83
42	Effect of Antimicrobial Peptides from Australian Tree Frogs on Anionic Phospholipid Membranes. Biochemistry, 2008, 47, 8557-8565.	1.2	83
43	Solid-State NMR Structure Determination of Melittin in a Lipid Environment. Biophysical Journal, 2001, 81, 2752-2761.	0.2	80
44	Solid-state NMR study of antimicrobial peptides from Australian frogs in phospholipid membranes. European Biophysics Journal, 2004, 33, 109-116.	1.2	80
45	Lipid matrix plays a role in Abeta fibril kinetics and morphology. FEBS Letters, 2011, 585, 749-754.	1.3	77
46	Î²-Sheet Structured Î²-Amyloid(1-40) Perturbs Phosphatidylcholine Model Membranes. Journal of Molecular Biology, 2007, 368, 982-997.	2.0	75
47	Real-time quantitative analysis of lipid disordering by aurein 1.2 during membrane adsorption, destabilisation and lysis. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1977-1986.	1.4	74
48	Relaxin family peptides: structureâ€"activity relationship studies. British Journal of Pharmacology, 2017, 174, 950-961.	2.7	72
49	The Prototypic Cyclotide Kalata B1 Has a Unique Mechanism of Entering Cells. Chemistry and Biology, 2015, 22, 1087-1097.	6.2	71
50	Effects of the Eukaryotic Pore-Forming Cytolysin Equinatoxin II on Lipid Membranes and the Role of Sphingomyelin. Biophysical Journal, 2003, 84, 2382-2392.	0.2	67
51	EPR and NMR measurements on high-temperature superconductors. Journal of Physics C: Solid State Physics, 1987, 20, L545-L552.	1.5	65
52	Effect of unsaturation on the chain order of phosphatidylcholines in a dioleoylphosphatidylethanolamine matrix. Biophysical Journal, 1996, 71, 274-282.	0.2	62
53	Host-defense peptides of Australian anurans. Part 2. Structure, activity, mechanism of action, and evolutionary significance. Peptides, 2012, 37, 174-188.	1.2	62
54	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

#	Article	IF	Citations
55	Melittin peptides exhibit different activity on different cells and model membranes. Amino Acids, 2014, 46, 2759-2766.	1.2	61
56	Incorporation of antimicrobial peptides in nanostructured lipid membrane mimetic bilayer cubosomes. Colloids and Surfaces B: Biointerfaces, 2017, 152, 143-151.	2.5	61
57	Model Membrane and Cell Studies of Antimicrobial Activity of Melittin Analogues. Current Topics in Medicinal Chemistry, 2015, 16, 40-45.	1.0	60
58	Gramicidin channel controversy--revisited. Nature Structural Biology, 1999, 6, 610-611.	9.7	58
59	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
60	Interactions of the Australian tree frog antimicrobial peptides aurein 1.2, citropin 1.1 and maculatin 1.1 with lipid model membranes: Differential scanning calorimetric and Fourier transform infrared spectroscopic studies. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2787-2800.	1.4	56
61	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
62	A Metallosupramolecular Capsule with the Topology of the Tetrahedron, 33, Assembled from Four Guanidine-Based Ligands and Twelve Cadmium Centers This work was supported by the â€œDeutsche Forschungsgemeinschaftâ€•DFG and the Australian Research Council. The authors thank Dr. B. F. Abrahams for help with the X-ray crystallography.. Angewandte Chemie - International Edition, 2001, 40, 4385.	7.2	55
63	Metal catalyzed oxidation of tyrosine residues by different oxidation systems of copper/hydrogen peroxide. Journal of Inorganic Biochemistry, 2004, 98, 173-184.	1.5	55
64	Nuclear magnetic resonance investigation of hydrocarbon chain packing in bilayers of polyunsaturated phospholipids. Lipids, 1996, 31, S199-S203.	0.7	54
65	Solid-state NMR relaxation studies of Australian spider silks. Biopolymers, 2002, 61, 287-297.	1.2	54
66	Solid-state NMR Structure Determination. IUBMB Life, 2003, 55, 515-523.	1.5	54
67	Solid-Phase Synthesis of Europium-Labeled Human INSL3 as a Novel Probe for the Study of Ligandâ˘Receptor Interactions. Bioconjugate Chemistry, 2008, 19, 1456-1463.	1.8	54
68	The lower limit to the size of small sonicated phospholipid vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1982, 690, 15-19.	1.4	53
69	Structure and Activity of the N-Terminal Region of the Eukaryotic Cytolysin Equinatoxin IIâ€. Biochemistry, 2006, 45, 1818-1828.	1.2	53
70	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
71	Melittin-induced changes in lipid multilayers. A solid-state NMR study. Biophysical Journal, 1992, 63, 469-474.	0.2	52
72	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

#	Article	IF	Citations
73	Solid-state 13C-NMR studies of the effects of sodium ions on the gramicidin A ion channel. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1026, 161-166.	1.4	51
74	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
75	Antimicrobial Peptides Share a Common Interaction Driven by Membrane Line Tension Reduction. Biophysical Journal, 2016, 111, 2176-2189.	0.2	51
76	Sodium ion binding in the gramicidin A channel. Solid-state NMR studies of the tryptophan residues. Biophysical Journal, 1994, 67, 1495-1500.	0.2	49
77	Stereospecific interactions are necessary for Alzheimer disease amyloid-Î² toxicity. Neurobiology of Aging, 2011, 32, 235-248.	1.5	49
78	NMR structural elucidation of amino resins. Journal of Applied Polymer Science, 2004, 91, 3504-3512.	1.3	48
79	Solution Structure and Interaction of Cupiennin 1a, a Spider Venom Peptide, with Phospholipid Bilayersâ€. Biochemistry, 2007, 46, 3576-3585.	1.2	48
80	Solution Structure and Membrane Interactions of the Antimicrobial Peptide Fallaxidin 4.1a: An NMR and QCM Study. Biochemistry, 2009, 48, 11892-11901.	1.2	48
81	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
82	Atomic Force Microscopy Reveals the Mechanobiology of Lytic Peptide Action on Bacteria. Langmuir, 2015, 31, 6164-6171.	1.6	48
83	A solid-state NMR study of protein hydration and stability. Pharmaceutical Research, 1998, 15, 1816-1821.	1.7	47
84	Cellular Disulfide Bond Formation in Bioactive Peptides and Proteins. International Journal of Molecular Sciences, 2015, 16, 1791-1805.	1.8	47
85	Low-frequency motion in membranes. The effect of cholesterol and proteins. Biochimica Et Biophysica Acta - Biomembranes, 1982, 689, 337-345.	1.4	46
86	The interactions of the N-terminal fusogenic peptide of HIV-1 gp41 with neutral phospholipids. European Biophysics Journal, 1999, 28, 427-436.	1.2	46
87	The Relaxin Peptide Family â€" Structure, Function and Clinical Applications. Protein and Peptide Letters, 2011, 18, 220-229.	0.4	46
88	Metal effects on the membrane interactions of amyloid-Î² peptides. European Biophysics Journal, 2008, 37, 333-344.	1.2	45
89	Structural effects of the antimicrobial peptide maculatin 1.1 on supported lipid bilayers. European Biophysics Journal, 2013, 42, 47-59.	1.2	45
90	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

#	Article	IF	Citations
91	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
92	Membrane interactions and the effect of metal ions of the amyloidogenic fragment AÎ²(25â€“35) in comparison to AÎ²(1â€“42). Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2400-2408.	1.4	44
93	Maculatin 1.1 Disrupts Staphylococcus aureus Lipid Membranes via a Pore Mechanism. Antimicrobial Agents and Chemotherapy, 2013, 57, 3593-3600.	1.4	44
94	Combating bacterial resistance by combination of antibiotics with antimicrobial peptides. Pure and Applied Chemistry, 2019, 91, 199-209.	0.9	44
95	Dye-release assay for investigation of antimicrobial peptide activity in a competitive lipid environment. European Biophysics Journal, 2014, 43, 445-450.	1.2	43
96	Characterization of the Lipid-Binding Site of Equinatoxin II by NMR and Molecular Dynamics Simulation. Biophysical Journal, 2015, 108, 1987-1996.	0.2	42
97	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
98	A multifunctional surfactant catalyst inspired by hydrolases. Science Advances, 2020, 6, eaaz0404.	4.7	41
99	A Solid-State NMR Study of Protein Mobility in Lyophilized Proteinâ€“Sugar Powders. Journal of Pharmaceutical Sciences, 2002, 91, 943-951.	1.6	40
100	Biological membranes are rich in low-frequency motion. Biochimica Et Biophysica Acta - Biomembranes, 1983, 732, 473-478.	1.4	39
101	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
102	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
103	NMR order parameter analysis of a peptide plane aligned in a lyotropic liquid crystal. Molecular Physics, 1993, 78, 357-369.	0.8	37
104	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
105	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
106	Copper and Zinc Mediated Oligomerisation of AÎ² Peptides. International Journal of Peptide Research and Therapeutics, 2006, 12, 153-164.	0.9	35
107	NMR Relaxation and Self-Diffusion Study at High and Low Magnetic Fields of Ionic Association in Protic Ionic Liquids. Journal of Physical Chemistry B, 2010, 114, 11436-11443.	1.2	35
108	Surface Immobilization of Bio-Functionalized Cubosomes: Sensing of Proteins by Quartz Crystal Microbalance. Langmuir, 2012, 28, 620-627.	1.6	35

#	Article	IF	Citations
109	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
110	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
111	Cholesterol-Dependent Cytolysins: Membrane and Protein Structural Requirements for Pore Formation. Chemical Reviews, 2019, 119, 7721-7736.	23.0	35
112	How do Self-Assembling Antimicrobial Lipopeptides Kill Bacteria?. ACS Applied Materials & Interfaces, 2020, 12, 55675-55687.	4.0	35
113	In Situ Monitoring of Bacteria under Antimicrobial Stress Using 31P Solid-State NMR. International Journal of Molecular Sciences, 2019, 20, 181.	1.8	34
114	The effect of gramicidin A on phospholipid bilayers. European Biophysics Journal, 1988, 16, 113-9.	1.2	33
115	Characterization of dodecylphosphocholine/myelin basic protein complexes. Biochemistry, 1988, 27, 379-386.	1.2	33
116	Molecular sequence effect on the carbon-13 carbonyl chemical shift shielding tensor. Journal of the American Chemical Society, 1990, 112, 8324-8328.	6.6	33
117	Cholesterol and Clioquinol modulation of AÎ²(1â€"42) interaction with phospholipid bilayers and metals. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 3135-3144.	1.4	32
118	Cubic phases of ternary amphiphileâ€"water systems. European Biophysics Journal, 2009, 39, 83-90.	1.2	32
119	C-13 chemical shift tensor of L-tryptophan and its application to polypeptide structure determination. Chemical Physics Letters, 1991, 181, 157-162.	1.2	31
120	Orientational order of Australian spider silks as determined by solid-state NMR. Biopolymers, 2006, 82, 134-143.	1.2	31
121	Anionic Phospholipid Interactions of the Prion Protein N Terminus Are Minimally Perturbing and Not Driven Solely by the Octapeptide Repeat Domain. Journal of Biological Chemistry, 2010, 285, 32282-32292.	1.6	31
122	Human relaxin-2: historical perspectives and role in cancer biology. Amino Acids, 2012, 43, 1131-1140.	1.2	31
123	Covalent conjugation of cationic antimicrobial peptides with a Î²â€lactam antibiotic core. Peptide Science, 2018, 110, e24059.	1.0	31
124	(Re)Defining the Proline-Rich Antimicrobial Peptide Family and the Identification of Putative New Members. Frontiers in Chemistry, 2020, 8, 607769.	1.8	31
125	Small unilamellar phospholipid vesicles and the theories of membrane formation. Faraday Discussions of the Chemical Society, 1986, 81, 163.	2.2	30
126	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

#	Article	IF	Citations
127	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
128	Engineering of a Novel Simplified Human Insulin-Like Peptide 5 Agonist. Journal of Medicinal Chemistry, 2016, 59, 2118-2125.	2.9	30
129	Membrane interactions of proline-rich antimicrobial peptide, Chex1-Arg20, multimers. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1236-1243.	1.4	30
130	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
131	Membrane interactions and biological activity of antimicrobial peptides from Australian scorpion. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2140-2148.	1.4	28
132	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
133	Enhancing proline-rich antimicrobial peptide action by homodimerization: influence of bifunctional linker. Chemical Science, 2022, 13, 2226-2237.	3.7	28
134	Nitroxide spinâ€"labeled peptides for DNPâ€NMR inâ€cell studies. FASEB Journal, 2019, 33, 11021-11027.	0.2	27
135	Boltzmann Statistics Rotational-Echo Double-Resonance Analysis. Journal of Physical Chemistry B, 2007, 111, 7802-7811.	1.2	26
136	The effects of lipids on the structure of the eukaryotic cytolysin equinatoxin II: A synchrotron radiation circular dichroism spectroscopic study. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2091-2096.	1.4	26
137	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
138	Fusogenic Activity of Amino-Terminal Region of HIV Type 1 Nef Protein. AIDS Research and Human Retroviruses, 1994, 10, 1231-1240.	0.5	25
139	Interactions of a synthetic Leuâ€"Lys-rich antimicrobial peptide with phospholipid bilayers. European Biophysics Journal, 2011, 40, 471-480.	1.2	25
140	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. ACS Infectious Diseases, 2017, 3, 606-619.	1.8	25
141	Amyloid Beta (Aβ) Peptide and Factors that Play Important Roles in Alzheimerâ€™s Disease. Current Medicinal Chemistry, 2016, 23, 884-892.	1.2	25
142	Developments in Hyphenated Spectroscopic Methods in Natural Product Profiling. Frontiers in Medicinal Chemistry, 2005, 1, 113-166.	0.2	24
143	The Role of Aβ Peptides in Alzheimers Disease. Protein and Peptide Letters, 2005, 12, 513-519.	0.4	24
144	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

#	Article	IF	Citations
145	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
146	Antimicrobial Peptide Structures: From Model Membranes to Live Cells. Chemistry - A European Journal, 2018, 24, 286-291.	1.7	24
147	Metallo-Cubosomes: Zinc-Functionalized Cubic Nanoparticles for Therapeutic Nucleotide Delivery. Molecular Pharmaceutics, 2019, 16, 978-986.	2.3	24
148	31P nuclear magnetic resonance studies of the association of basic proteins with multilayers of diacyl phosphatidylserine. Biochimica Et Biophysica Acta - Biomembranes, 1983, 732, 492-498.	1.4	23
149	Cupienninâ€ƒ1a, an antimicrobial peptide from the venom of the neotropical wandering spider Cupiennius salei, also inhibits the formation of nitric oxide by neuronal nitric oxide synthase. FEBS Journal, 2007, 274, 1778-1784.	2.2	23
150	Solid-state NMR study of membrane interactions of the pore-forming cytolysin, equinatoxin II. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 244-251.	1.4	23
151	Development of Cubosomes as a Cell-Free Biosensing Platform. Australian Journal of Chemistry, 2011, 64, 46.	0.5	23
152	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
153	Temperature dependence of the size of phospholipid vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1981, 642, 375-380.	1.4	22
154	Metal-Catalyzed Oxidative Damage and Oligomerization of the Amyloid-Î² Peptide of Alzheimerâ€™s Disease. Australian Journal of Chemistry, 2004, 57, 511.	0.5	22
155	Dimerisation ofN-acetyl-l-tyrosine ethyl ester and AÎ² peptides via formation of dityrosine. Free Radical Research, 2006, 40, 1-9.	1.5	22
156	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
157	A QCMâ€Ð and SAXS Study of the Interaction of Functionalised Lyotropic Liquid Crystalline Lipid Nanoparticles with siRNA. ChemBioChem, 2017, 18, 921-930.	1.3	22
158	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
159	A Study of the Angular Dependence of NMR Relaxation Times in Macroscopically Oriented Lyotropic Liquid Crystal Lamellar Phases. Molecular Crystals and Liquid Crystals, 1982, 89, 137-150.	0.9	21
160	Self-Assembly of Peptides into Spherical Nanoparticles for Delivery of Hydrophilic Moieties to the Cytosol. ACS Nano, 2010, 4, 2856-2864.	7.3	21
161	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
162	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

#	Article	IF	Citations
163	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
164	Actin dynamics studied by solid-state NMR spectroscopy. European Biophysics Journal, 1991, 19, 147-155.	1.2	20
165	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
166	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
167	Effect of dimerized melittin on gastric cancer cells and antibacterial activity. Amino Acids, 2018, 50, 1101-1110.	1.2	20
168	Magnetic Resonance Studies of Î²-Amyloid Peptides. Australian Journal of Chemistry, 2003, 56, 349.	0.5	20
169	TheÎ±M1 transmembrane segment of the nicotinic acetylcholine receptor interacts strongly with model membranes. Magnetic Resonance in Chemistry, 2004, 42, 148-154.	1.1	19
170	The Î±M1 segment of the nicotinic acetylcholine receptor exhibits conformational flexibility in a membrane environment. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1665, 40-47.	1.4	19
171	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
172	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
173	Polarization Transfer to External Nuclear Spins Using Ensembles of Nitrogen-Vacancy Centers. Physical Review Applied, 2021, 15, .	1.5	19
174	Prospects for nuclear spin hyperpolarization of molecular samples using nitrogen-vacancy centers in diamond. Physical Review B, 2021, 103, .	1.1	19
175	Orientation dependence of NMR relaxation time, T1Ï, in lipid bilayers. Chemistry and Physics of Lipids, 2000, 107, 159-167.	1.5	18
176	Interactions of the Antimicrobial Peptide Maculatin 1.1 and Analogues with Phospholipid Bilayers. Australian Journal of Chemistry, 2011, 64, 798.	0.5	18
177	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
178	A model for gramicidin A?-phospholipid interactions in bilayers. European Biophysics Journal, 1988, 16, 299-306.	1.2	17
179	Effect of acyl chain length on the structure and motion of gramicidin A in lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1989, 985, 229-232.	1.4	17
180	Determination of chemical shielding tensor of an indole carbon and application to tryptophan orientation of a membrane peptide. Chemical Physics Letters, 1999, 303, 493-498.	1.2	17

#	Article	IF	Citations
181	Effect of helix-promoting strategies on the biological activity of novel analogues of the B-chain of INSL3. Amino Acids, 2010, 38, 121-131.	1.2	17
182	Solidâ€state NMR and simulation studies of equinatoxin II Nâ€terminus interaction with lipid bilayers. Proteins: Structure, Function and Bioinformatics, 2010, 78, 858-872.	1.5	17
183	C-Terminal Modifications Broaden Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. Australian Journal of Chemistry, 2015, 68, 1373.	0.5	17
184	Hypercrosslinked Additives for Ageless Gasâ€Separation Membranes. Angewandte Chemie, 2016, 128, 2038-2041.	1.6	17
185	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
186	Tensorial sets for coupled pairs of spin-1/2 nuclei. Molecular Physics, 1990, 70, 581-603.	0.8	16
187	Optical Modulation of the Insertion of Gramicidin into Bilayer Lipid Membranes. Langmuir, 1998, 14, 4238-4242.	1.6	16
188	NMR structure of C-terminally tagged gramicidin channels. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1416, 48-56.	1.4	16
189	Effect of Avidin on Channel Kinetics of Biotinylated Gramicidin. Biochemistry, 2000, 39, 13053-13058.	1.2	16
190	Postsynthesis Vapor-Phase Functionalization of MCM-48 with Hexamethyldisilazane and 3-Aminopropyldimethylethoxylsilane for Bioseparation Applications. Journal of Physical Chemistry B, 2005, 109, 16263-16271.	1.2	16
191	Modeling the Membrane Environment for Membrane Proteins. Biophysical Journal, 2011, 100, 2073-2074.	0.2	16
192	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
193	Interaction of cationic antimicrobial peptides from Australian frogs with lipid membranes. Peptide Science, 2018, 110, e24061.	1.0	16
194	The aromaticity of ferrocene and some derivatives, ruthenocene and dibenzenechromium as determined via ring current assessment and 13C anisotropic contributions to the 1H NMR shielding. New Journal of Chemistry, 2003, 27, 381-386.	1.4	15
195	Disentanglement of Heterogeneous Dynamics in Mixed Lipid Systems. Biophysical Journal, 2011, 100, L40-L42.	0.2	15
196	Liposomal Phospholipid Preparations of Chloramphenicol for Ophthalmic Applications. Journal of Pharmaceutical Sciences, 2008, 97, 2691-2701.	1.6	14
197	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
198	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

#	Article	IF	Citations
199	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
200	A Reexamination of the Structure of â€œHoneycomb Cadmium Cyanideâ€. Journal of Solid State Chemistry, 2001, 156, 51-56.	1.4	13
201	Solvent affects the conformation of virginiamycin M1(pristinamycin IIA, streptogramin A). Organic and Biomolecular Chemistry, 2004, 2, 2919.	1.5	13
202	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
203	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
204	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
205	Copolyampholytes Produced from RAFT Polymerization of Protic Ionic Liquids. Macromolecules, 2017, 50, 8965-8978.	2.2	13
206	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
207	A practical implementation of de-Pake-ing via weighted Fourier transformation. PeerJ, 2013, 1, e30.	0.9	13
208	A31P NMR study of the interaction of amphibian antimicrobial peptides with the membranes of live bacteria. International Journal of Peptide Research and Therapeutics, 2000, 7, 151-156.	0.1	12
209	A solid-state NMR study of the interaction of fish antifreeze proteins with phospholipid membranes. European Biophysics Journal, 2008, 37, 1031-1038.	1.2	12
210	Effect of lipid on the conformation of the N-terminal region of equinatoxin II: a synchrotron radiation circular dichroism spectroscopic study. European Biophysics Journal, 2009, 39, 121-127.	1.2	12
211	Preparation and biological evaluation of self-assembled cubic phases for the polyvalent inhibition of cholera toxin. Soft Matter, 2011, 7, 6125.	1.2	12
212	Copper Modulation of Amyloid Beta 42 Interactions with Model Membranes. Australian Journal of Chemistry, 2012, 65, 472.	0.5	12
213	Membrane accessibility of glutathione. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2430-2436.	1.4	12
214	A nanomechanical study of the effects of colistin on the Klebsiella pneumoniae AJ218 capsule. European Biophysics Journal, 2017, 46, 351-361.	1.2	12
215	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
216	Characterisation of cell membrane interaction mechanisms of antimicrobial peptides by electrical bilayer recording. Biophysical Chemistry, 2022, 281, 106721.	1.5	12

#	Article	IF	Citations
217	MQ NMR hard and soft pulses for I = 1 spin systems. Raman multiple-quantum NMR. Journal of Magnetic Resonance, 1988, 79, 413-428.	0.5	11
218	Title is missing!. International Journal of Peptide Research and Therapeutics, 2000, 7, 151-156.	0.1	11
219	Subtle Differences in Initial Membrane Interactions Underpin the Selectivity of Small Antimicrobial Peptides. ChemPlusChem, 2015, 80, 91-96.	1.3	11
220	Heteronuclear NMR spectroscopy of proteins encapsulated in cubic phase lipids. Journal of Magnetic Resonance, 2019, 305, 146-151.	1.2	11
221	C-terminus amidation influences biological activity and membrane interaction of maculatin 1.1. Amino Acids, 2021, 53, 769-777.	1.2	11
222	Gated Ion Channel-Based Biosensor Device. , 2007, , 595-621.		11
223	Solid-state NMR study of aging of Colorbond polymer coating. Polymer, 2001, 42, 925-930.	1.8	10
224	Solid-state NMR conformational studies of a melittin-inhibitor complex. European Biophysics Journal, 2002, 31, 383-388.	1.2	10
225	One pathogen two stones: are Australian tree frog antimicrobial peptides synergistic against human pathogens?. European Biophysics Journal, 2017, 46, 639-646.	1.2	10
226	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
227	The impact of antibacterial peptides on bacterial lipid membranes depends on stage of growth. Faraday Discussions, 2021, 232, 399-418.	1.6	10
228	In-cell Solid-State NMR Studies of Antimicrobial Peptides. Frontiers in Medical Technology, 2020, 2, 610203.	1.3	10
229	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
230	Copper catalysed oxidation of amino acids and Alzheimer's disease. International Journal of Peptide Research and Therapeutics, 2003, 10, 405-412.	0.1	9
231	Interfacial properties of the M1 segment of the nicotinic acetylcholine receptor. Biophysical Chemistry, 2006, 121, 171-176.	1.5	9
232	Cyclization enhances function of linear anti-arthritic peptides. Clinical Immunology, 2014, 150, 121-133.	1.4	9
233	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
234	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

#	Article	IF	Citations
235	Difference in Conformation of Virginiamycin M1 in Chloroform and Bound Form in the 50S Ribosome or Streptogramin Acetyltransferase. Australian Journal of Chemistry, 2004, 57, 415.	0.5	9
236	Multi-Omic Analysis to Characterize Metabolic Adaptation of the E. coli Lipidome in Response to Environmental Stress. Metabolites, 2022, 12, 171.	1.3	9
237	The lipid network. Biophysical Reviews, 2012, 4, 283-290.	1.5	8
238	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
239	Physiochemical Characterization and Stability of Lipidic Cubic Phases by Solution NMR. Langmuir, 2020, 36, 6254-6260.	1.6	8
240	NMR spectroscopy of lipidic cubic phases. Biophysical Reviews, 2022, 14, 67-74.	1.5	8
241	Variable-temperature one- and two-dimensional 13C CP/MAS NMR studies of the dynamics of monohaptocyclopentadienyl rings of hafnium and titanium tetracyclopentadienyl in the solid state. Journal of Organometallic Chemistry, 1999, 577, 19-23.	0.8	7
242	Biophysical studies of a transmembrane peptide derived from the T cell antigen receptor. International Journal of Peptide Research and Therapeutics, 2001, 8, 227-233.	0.1	7
243	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
244	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
245	Excitation of triple quantum NMR coherences in solids by hard rf pulses. Chemical Physics Letters, 1988, 144, 87-89.	1.2	6
246	Biophysical studies of a transmembrane peptide derived from the T cell antigen receptor. International Journal of Peptide Research and Therapeutics, 2001, 8, 227-233.	0.1	6
247	The conformational flexibility of the antibiotic virginiamycin M1. European Biophysics Journal, 2005, 34, 383-388.	1.2	6
248	Characterisation of the extracellular polysaccharides produced by isolates of the fungus Acremonium. Carbohydrate Research, 2007, 342, 2481-2483.	1.1	6
249	The Location of the Antimicrobial Peptide Maculatin 1.1 in Model Bacterial Membranes. Frontiers in Chemistry, 2020, 8, 572.	1.8	6
250	CHAPTER 15. Solid-State NMR Studies of Antimicrobial Peptide Interactions with Specific Lipid Environments. New Developments in NMR, 2014, , 287-303.	0.1	6
251	Ultrasound-induced protein restructuring and ordered aggregation to form amyloid crystals. European Biophysics Journal, 2022, 51, 335-352.	1.2	6
252	Synthesis of Deuterated Aminocaproyl Linkers. Australian Journal of Chemistry, 2001, 54, 747.	0.5	5

#	Article	IF	Citations
253	Solid-State NMR Structural Determination of Components in an Ion Channel Switch Biosensor. Australian Journal of Chemistry, 2003, 56, 163.	0.5	5
254	Matrix method for analysis of selective NMR pulses. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2005, 25A, 1-17.	0.2	5
255	A Oneâ€Pot Chemically Cleavable Bisâ€Linker Tether Strategy for the Synthesis of Heterodimeric Peptides. Angewandte Chemie, 2016, 128, 14772-14776.	1.6	5
256	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
257	Chemical Exchange of Hydroxyl Groups in Lipidic Cubic Phases Characterized by NMR. Journal of Physical Chemistry B, 2021, 125, 571-580.	1.2	5
258	Expression and purification of the native Câ€amidated antimicrobial peptide maculatin 1.1. Journal of Peptide Science, 2021, 27, e3330.	0.8	5
259	Utilizing magnetic resonance techniques to study membrane interactions of amyloid peptides. Biochemical Society Transactions, 2021, 49, 1457-1465.	1.6	5
260	TOAC spin-labeled peptides tailored for DNP-NMR studies in lipid membrane environments. Biophysical Journal, 2021, 120, 4501-4511.	0.2	5
261	Small phospholipid vesicles cannot undergo a fluid-to-crystalline phase transition. Chemical Physics Letters, 1980, 73, 569-571.	1.2	4
262	Conformational studies of a melittin-inhibitor complex. The Protein Journal, 2000, 19, 529-534.	1.1	4
263	Effect of Linker Length on Avidin Binding to Biotinylated Gramicidin A. International Journal of Peptide Research and Therapeutics, 2006, 12, 243-252.	0.9	4
264	Development of Lanthanideâ€Labeled Human INSL3 as an Alternative Probe to Radioactively Labeled INSL3 for Use in Bioassays. Annals of the New York Academy of Sciences, 2009, 1160, 87-90.	1.8	4
265	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
266	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
267	Peptide Multimerization as Leads for Therapeutic Development. Biologics, 2022, 2, 15-44.	2.3	4
268	Solid-State NMR of Membrane-Active Proteins and Peptides. , 2008, , 305-311.		3
269	The conformation of acetylated virginiamycin M1 and virginiamycin M1 in explicit solvents. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 610-618.	1.1	3
270	Special issue on membrane-active peptides. European Biophysics Journal, 2011, 40, 347-348.	1.2	3

#	Article	IF	Citations
271	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
272	Fluorescent Ion Efflux Screening Assay for Determining Membrane-Active Peptides. Australian Journal of Chemistry, 2017, 70, 220.	0.5	3
273	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
274	Zeeman-Incremented Multiple-Quantum NMR. Journal of Magnetic Resonance Series A, 1993, 103, 307-312.	1.6	2
275	Structure and Membrane Topology of the Pore-Forming Peptide Maculatin 1.1. Biophysical Journal, 2015, 108, 549a.	0.2	2
276	Atomic Force Microscopy Studies of the Interaction of Antimicrobial Peptides with Bacterial Cells. Australian Journal of Chemistry, 2017, 70, 130.	0.5	2
277	Role of the Tryptophan-Rich Motif of Listeriolysin O in Membrane Binding. Biophysical Journal, 2017, 112, 524a.	0.2	2
278	Chemical Synthesis and Characterization of an Equinatoxin II(1â€"85) Analogue. Molecules, 2017, 22, 559.	1.7	2
279	NMR Chemical Shift and Methylation of 4-Nitroimidazole: Experiment and Theory. Australian Journal of Chemistry, 2021, 74, 48.	0.5	2
280	Solid-State NMR of Amyloid Membrane Interactions. Methods in Molecular Biology, 2011, 752, 165-177.	0.4	2
281	Side Chain and Backbone Conformation of Gramicidin a in Lipid Bilayer Membranes. Jerusalem Symposia on Quantum Chemistry and Biochemistry, 1988, , 289-295.	0.2	2
282	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
283	Copper catalysed oxidation of amino acids and Alzheimer's disease. International Journal of Peptide Research and Therapeutics, 2003, 10, 405-412.	0.9	1
284	An Introduction to Biological Solid State NMR. , 2005, , 145-156.		1
285	Amino functionalisation of microemulsion templated mesoporous silica foams. Studies in Surface Science and Catalysis, 2007, 160, 591-598.	1.5	1
286	Membrane Insertion of a Dinuclear Ruthenium Complex and Implications for Antibacterial Activity. Biophysical Journal, 2017, 112, 380a.	0.2	1
287	Membrane biophysics session. Biophysical Reviews, 2019, 11, 283-284.	1.5	1
288	Biophysics & Structural Biology at Synchrotrons BSBS 2019 Biological NMR Session. Biophysical Reviews, 2019, 11, 531-532.	1.5	1

#	Article	IF	Citations
289	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
290	In-Cell Solid-State NMR Analysis of Membrane Proteins. Australian Journal of Chemistry, 2021, 74, 362-363.	0.5	1
291	Selective On-Resonance N.M.R. Irradiation of a Dipolar Double.. Australian Journal of Chemistry, 2000, 53, 355.	0.5	1
292	Host-Defense Peptides from the Secretion of the Skin Glands of Frogs and Toads. , 2009, , 333-355.		1
293	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
294	Magnetic Resonance Studies of Î²-Amyloid Peptides.. ChemInform, 2003, 34, no.	0.1	0
295	Surface coating of MCM-48 via a gas phase reaction with hexamethyldisilazane (HMDS). Studies in Surface Science and Catalysis, 2003, , 493-496.	1.5	0
296	Metal-Catalyzed Oxidative Damage and Oligomerization of the Amyloid-Î² Peptide of Alzheimerâ€²s Disease. ChemInform, 2004, 35, no.	0.1	0
297	1P344 Membrane perturbation by antimicrobial peptides from amphibian and arachnid species(12.) Tj ETQq1 1 0.784314 rgBT /Overl 2006, 46, S232.	0.0	0
298	Metals and membranes in neuroscience. European Biophysics Journal, 2008, 37, 239-239.	1.2	0
299	Determination of rifampicin location in cholesterol-lipid liposomes by ²H and ³¹P Solid-State NMR. , 2008, , .		0
300	Antimicrobial Peptide Recognition of Bacterial Membranes. Biophysical Journal, 2011, 100, 334a.	0.2	0
301	Disentanglement of Heterogeneous Solid-State NMR Parameter Measurements in Model Membranes. Biophysical Journal, 2012, 102, 492a.	0.2	0
302	Membrane protein structure and function. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 125.	1.4	0
303	Copper Modulates AÎ²42 Aggregation in Model Membranes. Biophysical Journal, 2012, 102, 488a-489a.	0.2	0
304	Antimicrobial Peptide Activity in a Competitive Membrane Lipid Environment. Biophysical Journal, 2013, 104, 20a-21a.	0.2	0
305	Membrane Interactions of the Alzheimer's Disease AÎ²42 Peptide andÂa Soluble AÎ²42 Fusion Protein. Biophysical Journal, 2013, 104, 238a.	0.2	0
306	Modelling the Interactions of Equinatoxin II with Micelles. Biophysical Journal, 2014, 106, 89a.	0.2	0

#	Article	IF	Citations
307	Modelling the Interactions of Equinatoxin II with Micelles. Biophysical Journal, 2014, 106, 297a.	0.2	0
308	Localisation of the Antimicrobial Peptide Maculatin 1.1 in Lipid Bilayers using Solid-State NMR. Biophysical Journal, 2016, 110, 78a.	0.2	0
309	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
310	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
311	Membrane-active peptides, IUPAB/EBSA symposium, Edinburgh. Biophysical Reviews, 2017, 9, 283-284.	1.5	0
312	Frontispiece: Antimicrobial Peptide Structures: From Model Membranes to Live Cells. Chemistry - A European Journal, 2018, 24, .	1.7	0
313	In-Cell Structure Determination of an Antimicrobial Peptide by DNP Solid-State NMR. Biophysical Journal, 2020, 118, 193a.	0.2	0
314	Solid-State NMR Study of Live Bacteria in the Presence of Antimicrobial Agents. Biophysical Journal, 2020, 118, 343a-344a.	0.2	0
315	The Chemistry and Biology of Insulin-Like Peptide 3, a Novel Member of the Insulin Superfamily. , 2009, , 159-168.		0
316	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