

# Frances Separovic

## List of Publications by Year in descending order

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316  
papers

12,391  
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322  
docs citations

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times ranked

11781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Alkali Cations on Aluminum Incorporation in Geopolymeric Gels. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 832-839.	3.7	369
2	<sup>29</sup> Si NMR Study of Structural Ordering in Aluminosilicate Geopolymer Gels. <i>Langmuir</i> , 2005, 21, 3028-3036.	3.5	362
3	How Membrane-Active Peptides Get into Lipid Membranes. <i>Accounts of Chemical Research</i> , 2016, 49, 1130-1138.	15.6	331
4	Implications of peptide assemblies in amyloid diseases. <i>Chemical Society Reviews</i> , 2017, 46, 6492-6531.	38.1	262
5	Electrochemistry of Room Temperature Protic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6923-6936.	2.6	254
6	Interfacial Anchor Properties of Tryptophan Residues in Transmembrane Peptides Can Dominate over Hydrophobic Matching Effects in Peptide-Lipid Interactions. <i>Biochemistry</i> , 2003, 42, 5341-5348.	2.5	251
7	Chemically modified and conjugated antimicrobial peptides against superbugs. <i>Chemical Society Reviews</i> , 2021, 50, 4932-4973.	38.1	220
8	Direct Visualization of Membrane Leakage Induced by the Antibiotic Peptides: Maculatin, Citropin, and Aurein. <i>Biophysical Journal</i> , 2005, 89, 1874-1881.	0.5	214
9	Host-defence peptides of Australian anurans: structure, mechanism of action and evolutionary significance. <i>Peptides</i> , 2004, 25, 1035-1054.	2.4	209
10	Neurotoxic, Redox-competent Alzheimer's $\beta$ -Amyloid Is Released from Lipid Membrane by Methionine Oxidation. <i>Journal of Biological Chemistry</i> , 2003, 278, 42959-42965.	3.4	176
11	Surface Behavior and Lipid Interaction of Alzheimer $\beta$ -Amyloid Peptide 1-42: A Membrane-Disrupting Peptide. <i>Biophysical Journal</i> , 2005, 88, 2706-2713.	0.5	172
12	Copper-mediated Amyloid- $\beta$ Toxicity Is Associated with an Intermolecular Histidine Bridge. <i>Journal of Biological Chemistry</i> , 2006, 281, 15145-15154.	3.4	170
13	Structure and Orientation of the Pore-forming Peptide Melittin, in Lipid Bilayers. <i>Journal of Molecular Biology</i> , 1994, 241, 456-466.	4.2	165
14	Amyloid- $\beta$ Peptide Disruption of Lipid Membranes and the Effect of Metal Ions. <i>Journal of Molecular Biology</i> , 2006, 356, 759-770.	4.2	160
15	Proline-rich antimicrobial peptides: potential therapeutics against antibiotic-resistant bacteria. <i>Amino Acids</i> , 2014, 46, 2287-2294.	2.7	158
16	Conformation and Orientation of Gramicidin a in Oriented Phospholipid Bilayers Measured by Solid State Carbon-13 NMR. <i>Biophysical Journal</i> , 1988, 53, 67-76.	0.5	154
17	The antimicrobial peptide aurein 1.2 disrupts model membranes via the carpet mechanism. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15739.	2.8	153
18	Specific and Selective Peptide-Membrane Interactions Revealed Using Quartz Crystal Microbalance. <i>Biophysical Journal</i> , 2007, 93, 3907-3916.	0.5	135

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19	Interaction of antimicrobial peptides from Australian amphibians with lipid membranes. <i>Chemistry and Physics of Lipids</i> , 2003, 122, 107-120.	3.2	131
20	Preparation of protic ionic liquids with minimal water content and 15N NMR study of proton transfer. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1571.	2.8	127
21	Non-Newtonian viscous shear thinning in ionic liquids. <i>Soft Matter</i> , 2010, 6, 2080.	2.7	121
22	Membrane thickness and acyl chain length. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1983, 733, 189-193.	2.6	108
23	QCM-D fingerprinting of membrane-active peptides. <i>European Biophysics Journal</i> , 2011, 40, 437-446.	2.2	108
24	Membrane interactions of antimicrobial peptides from Australian tree frogs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1178-1183.	2.6	105
25	Hypercrosslinked Additives for Ageless Gasâ€šeparation Membranes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1998-2001.	13.8	105
26	A Multidimensional 1H NMR Investigation of the Conformation of Methionine-Enkephalin in Fast-Tumbling Bicelles. <i>Biophysical Journal</i> , 2004, 86, 1587-1600.	0.5	102
27	The Effect of Selective D- or NÎ±-Methyl Arginine Substitution on the Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. <i>Frontiers in Chemistry</i> , 2017, 5, 1.	3.6	96
28	Electrochemistry of Room Temperature Protic Ionic Liquids: A Critical Assessment for Use as Electrolytes in Electrochemical Applications. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9160-9170.	2.6	94
29	Selective permeabilization of the host cell membrane of Plasmodium falciparum-infected red blood cells with streptolysin O and equinatoxin II. <i>Biochemical Journal</i> , 2007, 403, 167-175.	3.7	93
30	Determination of the structure of a membrane-incorporated ion channel. Solid-state nuclear magnetic resonance studies of gramicidin A. <i>Biophysical Journal</i> , 1989, 56, 307-314.	0.5	91
31	Surface behaviour and peptideâ€šlipid interactions of the antibiotic peptides, Maculatin and Citropin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1664, 31-37.	2.6	90
32	Methionine regulates copper/hydrogen peroxide oxidation products of AÎ². <i>Journal of Peptide Science</i> , 2005, 11, 353-360.	1.4	88
33	Physicochemical Characterization and Stability of Rifampicin Liposome Dry Powder Formulations for Inhalation. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 628-639.	3.3	88
34	Chapter 1 The Human Insulin Superfamily of Polypeptide Hormones. <i>Vitamins and Hormones</i> , 2009, 80, 1-31.	1.7	88
35	Interaction of the Eukaryotic Pore-forming Cytolysin Equinatoxin II with Model Membranes: 19F NMR Studies. <i>Journal of Molecular Biology</i> , 2005, 347, 27-39.	4.2	87
36	Membrane interactions of antimicrobial peptides from Australian frogs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1630-1638.	2.6	87

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37	Modeling Speciation in Highly Concentrated Alkaline Silicate Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 8899-8908.	3.7	86
38	Gramicidin channel controversy--the structure in a lipid environment. <i>Nature Structural Biology</i> , 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. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1671-1681.	6.4	84
40	The molecular packing and stability within highly curved phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1980, 598, 405-410.	2.6	83
41	<sup>39</sup> K NMR of Free Potassium in Geopolymers. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 9208-9210.	3.7	83
42	Effect of Antimicrobial Peptides from Australian Tree Frogs on Anionic Phospholipid Membranes. <i>Biochemistry</i> , 2008, 47, 8557-8565.	2.5	83
43	Solid-State NMR Structure Determination of Melittin in a Lipid Environment. <i>Biophysical Journal</i> , 2001, 81, 2752-2761.	0.5	80
44	Solid-state NMR study of antimicrobial peptides from Australian frogs in phospholipid membranes. <i>European Biophysics Journal</i> , 2004, 33, 109-116.	2.2	80
45	Lipid matrix plays a role in Abeta fibril kinetics and morphology. <i>FEBS Letters</i> , 2011, 585, 749-754.	2.8	77
46	$\beta$ -Sheet Structured $\beta$ -Amyloid(1-40) Perturbs Phosphatidylcholine Model Membranes. <i>Journal of Molecular Biology</i> , 2007, 368, 982-997.	4.2	75
47	Real-time quantitative analysis of lipid disordering by aurein 1.2 during membrane adsorption, destabilisation and lysis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1977-1986.	2.6	74
48	Relaxin family peptides: structure-activity relationship studies. <i>British Journal of Pharmacology</i> , 2017, 174, 950-961.	5.4	72
49	The Prototypic Cyclotide Kalata B1 Has a Unique Mechanism of Entering Cells. <i>Chemistry and Biology</i> , 2015, 22, 1087-1097.	6.0	71
50	Effects of the Eukaryotic Pore-Forming Cytolysin Equinatoxin II on Lipid Membranes and the Role of Sphingomyelin. <i>Biophysical Journal</i> , 2003, 84, 2382-2392.	0.5	67
51	EPR and NMR measurements on high-temperature superconductors. <i>Journal of Physics C: Solid State Physics</i> , 1987, 20, L545-L552.	1.5	65
52	Effect of unsaturation on the chain order of phosphatidylcholines in a dioleoylphosphatidylethanolamine matrix. <i>Biophysical Journal</i> , 1996, 71, 274-282.	0.5	62
53	Host-defense peptides of Australian anurans. Part 2. Structure, activity, mechanism of action, and evolutionary significance. <i>Peptides</i> , 2012, 37, 174-188.	2.4	62
54	The role of bacterial lipid diversity and membrane properties in modulating antimicrobial peptide activity and drug resistance. <i>Current Opinion in Chemical Biology</i> , 2019, 52, 85-92.	6.1	62

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55	Melittin peptides exhibit different activity on different cells and model membranes. <i>Amino Acids</i> , 2014, 46, 2759-2766.	2.7	61
56	Incorporation of antimicrobial peptides in nanostructured lipid membrane mimetic bilayer cubosomes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 143-151.	5.0	61
57	Model Membrane and Cell Studies of Antimicrobial Activity of Melittin Analogues. <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 40-45.	2.1	60
58	Gramicidin channel controversy--revisited. <i>Nature Structural Biology</i> , 1999, 6, 610-611.	9.7	58
59	Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. <i>Cell Chemical Biology</i> , 2018, 25, 380-391.e5.	5.2	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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 2787-2800.	2.6	56
61	Lipid composition regulates the conformation and insertion of the antimicrobial peptide maculatin 1.1. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 205-211.	2.6	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 "Deutsche Forschungsgemeinschaft" DFG and the Australian Research Council. The authors thank Dr. B. F. Abrahams for help with the X-ray crystallography.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4385.	13.8	55
63	Metal catalyzed oxidation of tyrosine residues by different oxidation systems of copper/hydrogen peroxide. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 173-184.	3.5	55
64	Nuclear magnetic resonance investigation of hydrocarbon chain packing in bilayers of polyunsaturated phospholipids. <i>Lipids</i> , 1996, 31, S199-S203.	1.7	54
65	Solid-state NMR relaxation studies of Australian spider silks. <i>Biopolymers</i> , 2002, 61, 287-297.	2.4	54
66	Solid-state NMR Structure Determination. <i>IUBMB Life</i> , 2003, 55, 515-523.	3.4	54
67	Solid-Phase Synthesis of Europium-Labeled Human INSL3 as a Novel Probe for the Study of Ligand-Receptor Interactions. <i>Bioconjugate Chemistry</i> , 2008, 19, 1456-1463.	3.6	54
68	The lower limit to the size of small sonicated phospholipid vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982, 690, 15-19.	2.6	53
69	Structure and Activity of the N-Terminal Region of the Eukaryotic Cytolysin Equinatoxin II. <i>Biochemistry</i> , 2006, 45, 1818-1828.	2.5	53
70	Multimerization of a Proline-Rich Antimicrobial Peptide, Chex-Arg20, Alters Its Mechanism of Interaction with the Escherichia coli Membrane. <i>Chemistry and Biology</i> , 2015, 22, 1250-1258.	6.0	53
71	Melittin-induced changes in lipid multilayers. A solid-state NMR study. <i>Biophysical Journal</i> , 1992, 63, 469-474.	0.5	52
72	Proline Facilitates Membrane Insertion of the Antimicrobial Peptide Maculatin 1.1 via Surface Indentation and Subsequent Lipid Disordering. <i>Biophysical Journal</i> , 2013, 104, 1495-1507.	0.5	52

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73	Solid-state <sup>13</sup> C-NMR studies of the effects of sodium ions on the gramicidin A ion channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1026, 161-166.	2.6	51
74	Bacteria May Cope Differently from Similar Membrane Damage Caused by the Australian Tree Frog Antimicrobial Peptide Maculatin 1.1. <i>Journal of Biological Chemistry</i> , 2015, 290, 19853-19862.	3.4	51
75	Antimicrobial Peptides Share a Common Interaction Driven by Membrane Line Tension Reduction. <i>Biophysical Journal</i> , 2016, 111, 2176-2189.	0.5	51
76	Sodium ion binding in the gramicidin A channel. Solid-state NMR studies of the tryptophan residues. <i>Biophysical Journal</i> , 1994, 67, 1495-1500.	0.5	49
77	Stereospecific interactions are necessary for Alzheimer disease amyloid- $\beta$ toxicity. <i>Neurobiology of Aging</i> , 2011, 32, 235-248.	3.1	49
78	NMR structural elucidation of amino resins. <i>Journal of Applied Polymer Science</i> , 2004, 91, 3504-3512.	2.6	48
79	Solution Structure and Interaction of Cupiennin 1a, a Spider Venom Peptide, with Phospholipid Bilayers. <i>Biochemistry</i> , 2007, 46, 3576-3585.	2.5	48
80	Solution Structure and Membrane Interactions of the Antimicrobial Peptide Fallaxidin 4.1a: An NMR and QCM Study. <i>Biochemistry</i> , 2009, 48, 11892-11901.	2.5	48
81	2-Nitroveratryl as a Photocleavable Thiol-Protecting Group for Directed Disulfide Bond Formation in the Chemical Synthesis of Insulin. <i>Chemistry - A European Journal</i> , 2014, 20, 9549-9552.	3.3	48
82	Atomic Force Microscopy Reveals the Mechanobiology of Lytic Peptide Action on Bacteria. <i>Langmuir</i> , 2015, 31, 6164-6171.	3.5	48
83	A solid-state NMR study of protein hydration and stability. <i>Pharmaceutical Research</i> , 1998, 15, 1816-1821.	3.5	47
84	Cellular Disulfide Bond Formation in Bioactive Peptides and Proteins. <i>International Journal of Molecular Sciences</i> , 2015, 16, 1791-1805.	4.1	47
85	Low-frequency motion in membranes. The effect of cholesterol and proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982, 689, 337-345.	2.6	46
86	The interactions of the N-terminal fusogenic peptide of HIV-1 gp41 with neutral phospholipids. <i>European Biophysics Journal</i> , 1999, 28, 427-436.	2.2	46
87	The Relaxin Peptide Family – Structure, Function and Clinical Applications. <i>Protein and Peptide Letters</i> , 2011, 18, 220-229.	0.9	46
88	Metal effects on the membrane interactions of amyloid- $\beta$ peptides. <i>European Biophysics Journal</i> , 2008, 37, 333-344.	2.2	45
89	Structural effects of the antimicrobial peptide maculatin 1.1 on supported lipid bilayers. <i>European Biophysics Journal</i> , 2013, 42, 47-59.	2.2	45
90	Interaction of the antimicrobial peptides caerin 1.1 and aurein 1.2 with intact bacteria by <sup>2</sup> H solid-state NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2959-2964.	2.6	45

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91	Total Chemical Synthesis of an Intra-Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14743-14747.	13.8	45
92	Membrane interactions and the effect of metal ions of the amyloidogenic fragment A $\beta$ (25-35) in comparison to A $\beta$ (1-42). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 2400-2408.	2.6	44
93	Maculatin 1.1 Disrupts <i>Staphylococcus aureus</i> Lipid Membranes via a Pore Mechanism. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 3593-3600.	3.2	44
94	Combating bacterial resistance by combination of antibiotics with antimicrobial peptides. <i>Pure and Applied Chemistry</i> , 2019, 91, 199-209.	1.9	44
95	Dye-release assay for investigation of antimicrobial peptide activity in a competitive lipid environment. <i>European Biophysics Journal</i> , 2014, 43, 445-450.	2.2	43
96	Characterization of the Lipid-Binding Site of Equinatoxin II by NMR and Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2015, 108, 1987-1996.	0.5	42
97	Atomic force microscopy of bacteria reveals the mechanobiology of pore forming peptide action. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1091-1098.	2.6	42
98	A multifunctional surfactant catalyst inspired by hydrolases. <i>Science Advances</i> , 2020, 6, eaaz0404.	10.3	41
99	A Solid-State NMR Study of Protein Mobility in Lyophilized Protein-Sugar Powders. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 943-951.	3.3	40
100	Biological membranes are rich in low-frequency motion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1983, 732, 473-478.	2.6	39
101	Structural Disruptions of the Outer Membranes of Gram-Negative Bacteria by Rationally Designed Amphiphilic Antimicrobial Peptides. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 16062-16074.	8.0	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. <i>Nanoscale</i> , 2017, 9, 2471-2478.	5.6	38
103	NMR order parameter analysis of a peptide plane aligned in a lyotropic liquid crystal. <i>Molecular Physics</i> , 1993, 78, 357-369.	1.7	37
104	Membrane defects enhance the interaction of antimicrobial peptides, aurein 1.2 versus caerin 1.1. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1863-1872.	2.6	37
105	Stability and activity of lysozyme in stoichiometric and non-stoichiometric protic ionic liquid (PIL)-water systems. <i>Journal of Chemical Physics</i> , 2018, 148, 193838.	3.0	37
106	Copper and Zinc Mediated Oligomerisation of A $\beta$ Peptides. <i>International Journal of Peptide Research and Therapeutics</i> , 2006, 12, 153-164.	1.9	35
107	NMR Relaxation and Self-Diffusion Study at High and Low Magnetic Fields of Ionic Association in Protic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11436-11443.	2.6	35
108	Surface Immobilization of Bio-Functionalized Cubosomes: Sensing of Proteins by Quartz Crystal Microbalance. <i>Langmuir</i> , 2012, 28, 620-627.	3.5	35

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109	Activity and conformation of lysozyme in molecular solvents, protic ionic liquids (PILs) and saltâ€“water systems. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25926-25936.	2.8	35
110	Micelle formation of a non-ionic surfactant in non-aqueous molecular solvents and protic ionic liquids (PILs). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24377-24386.	2.8	35
111	Cholesterol-Dependent Cytolysins: Membrane and Protein Structural Requirements for Pore Formation. <i>Chemical Reviews</i> , 2019, 119, 7721-7736.	47.7	35
112	How do Self-Assembling Antimicrobial Lipopeptides Kill Bacteria?. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55675-55687.	8.0	35
113	In Situ Monitoring of Bacteria under Antimicrobial Stress Using 31P Solid-State NMR. <i>International Journal of Molecular Sciences</i> , 2019, 20, 181.	4.1	34
114	The effect of gramicidin A on phospholipid bilayers. <i>European Biophysics Journal</i> , 1988, 16, 113-9.	2.2	33
115	Characterization of dodecylphosphocholine/myelin basic protein complexes. <i>Biochemistry</i> , 1988, 27, 379-386.	2.5	33
116	Molecular sequence effect on the carbon-13 carbonyl chemical shift shielding tensor. <i>Journal of the American Chemical Society</i> , 1990, 112, 8324-8328.	13.7	33
117	Cholesterol and Cloquinol modulation of AÎ²(1â€“42) interaction with phospholipid bilayers and metals. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 3135-3144.	2.6	32
118	Cubic phases of ternary amphiphileâ€“water systems. <i>European Biophysics Journal</i> , 2009, 39, 83-90.	2.2	32
119	C-13 chemical shift tensor of L-tryptophan and its application to polypeptide structure determination. <i>Chemical Physics Letters</i> , 1991, 181, 157-162.	2.6	31
120	Orientalional order of Australian spider silks as determined by solid-state NMR. <i>Biopolymers</i> , 2006, 82, 134-143.	2.4	31
121	Anionic Phospholipid Interactions of the Prion Protein N Terminus Are Minimally Perturbing and Not Driven Solely by the Octapeptide Repeat Domain. <i>Journal of Biological Chemistry</i> , 2010, 285, 32282-32292.	3.4	31
122	Human relaxin-2: historical perspectives and role in cancer biology. <i>Amino Acids</i> , 2012, 43, 1131-1140.	2.7	31
123	Covalent conjugation of cationic antimicrobial peptides with a Î²-lactam antibiotic core. <i>Peptide Science</i> , 2018, 110, e24059.	1.8	31
124	(Re)Defining the Proline-Rich Antimicrobial Peptide Family and the Identification of Putative New Members. <i>Frontiers in Chemistry</i> , 2020, 8, 607769.	3.6	31
125	Small unilamellar phospholipid vesicles and the theories of membrane formation. <i>Faraday Discussions of the Chemical Society</i> , 1986, 81, 163.	2.2	30
126	Measuring translational diffusion coefficients of peptides and proteins by PFG-NMR using band-selective RF pulses. <i>European Biophysics Journal</i> , 2014, 43, 331-339.	2.2	30



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127	Membrane Insertion of a Dinuclear Polypyridylruthenium(II) Complex Revealed by Solid-State NMR and Molecular Dynamics Simulation: Implications for Selective Antibacterial Activity. <i>Journal of the American Chemical Society</i> , 2016, 138, 15267-15277.	13.7	30
128	Engineering of a Novel Simplified Human Insulin-Like Peptide 5 Agonist. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 2118-2125.	6.4	30
129	Membrane interactions of proline-rich antimicrobial peptide, Chex1-Arg20, multimers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1236-1243.	2.6	30
130	Controlling nanostructure and lattice parameter of the inverse bicontinuous cubic phases in functionalised phytantriol dispersions. <i>Journal of Colloid and Interface Science</i> , 2013, 408, 117-124.	9.4	29
131	Membrane interactions and biological activity of antimicrobial peptides from Australian scorpion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2140-2148.	2.6	28
132	C-terminal Modification and Multimerization Increase the Efficacy of a Proline-Rich Antimicrobial Peptide. <i>Chemistry - A European Journal</i> , 2017, 23, 390-396.	3.3	28
133	Enhancing proline-rich antimicrobial peptide action by homodimerization: influence of bifunctional linker. <i>Chemical Science</i> , 2022, 13, 2226-2237.	7.4	28
134	Nitroxide spin-labeled peptides for DNP-NMR in cell studies. <i>FASEB Journal</i> , 2019, 33, 11021-11027.	0.5	27
135	Boltzmann Statistics Rotational-Echo Double-Resonance Analysis. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7802-7811.	2.6	26
136	The effects of lipids on the structure of the eukaryotic cytolysin equinatoxin II: A synchrotron radiation circular dichroism spectroscopic study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2091-2096.	2.6	26
137	Interaction of N-terminal peptide analogues of the Na <sup>+</sup> ,K <sup>+</sup> -ATPase with membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1282-1291.	2.6	26
138	Fusogenic Activity of Amino-Terminal Region of HIV Type 1 Nef Protein. <i>AIDS Research and Human Retroviruses</i> , 1994, 10, 1231-1240.	1.1	25
139	Interactions of a synthetic Leu-Lys-rich antimicrobial peptide with phospholipid bilayers. <i>European Biophysics Journal</i> , 2011, 40, 471-480.	2.2	25
140	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. <i>ACS Infectious Diseases</i> , 2017, 3, 606-619.	3.8	25
141	Amyloid Beta (&#946;) Peptide and Factors that Play Important Roles in Alzheimer's Disease. <i>Current Medicinal Chemistry</i> , 2016, 23, 884-892.	2.4	25
142	Developments in Hyphenated Spectroscopic Methods in Natural Product Profiling. <i>Frontiers in Medicinal Chemistry</i> , 2005, 1, 113-166.	0.2	24
143	The Role of &#946; Peptides in Alzheimers Disease. <i>Protein and Peptide Letters</i> , 2005, 12, 513-519.	0.9	24
144	Proline-15 creates an amphipathic wedge in maculatin 1.1 peptides that drives lipid membrane disruption. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2277-2289.	2.6	24

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145	Phosphorylation of a full length amyloid- $\beta^2$ peptide modulates its amyloid aggregation, cell binding and neurotoxic properties. <i>Molecular BioSystems</i> , 2017, 13, 1545-1551.	2.9	24
146	Antimicrobial Peptide Structures: From Model Membranes to Live Cells. <i>Chemistry - A European Journal</i> , 2018, 24, 286-291.	3.3	24
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