# Frances Separovic

## List of Publications by Year in Descending Order



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| 295 papers | 10,135 citations | 53 h-index | 86 g-index |
| 322 ext. papers | 11,277 ext. citations | 4.2 avg, IF | 6.3 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 295 | Enhancing proline-rich antimicrobial peptide action by homodimerization: influence of bifunctional linker.. *Chemical Science*, **2022**, 13, 2226-2237 | 9.4 | 7 |
| 294 | NMR spectroscopy of lipidic cubic phases.. *Biophysical Reviews*, **2022**, 14, 67-74 | 3.7 | 1 |
| 293 | NMR measurement of biomolecular translational and rotational motion for evaluating changes of protein oligomeric state in solution.. *European Biophysics Journal*, **2022**, 1 | 1.9 | 0 |
| 292 | Peptide Multimerization as Leads for Therapeutic Development. *Biologics*, **2022**, 2, 15-44 | | 2 |
| 291 | The impact of antibacterial peptides on bacterial lipid membranes depends on stage of growth. *Faraday Discussions*, **2021**, | 3.6 | 4 |
| 290 | Characterisation of cell membrane interaction mechanisms of antimicrobial peptides by electrical bilayer recording. *Biophysical Chemistry*, **2021**, 281, 106721 | 3.5 | 4 |
| 289 | Water diffusion in complex systems measured by PGSE□NMR using chemical shift selective stimulated echo: Elimination of magnetization exchange effects.. *Journal of Chemical Physics*, **2021**, 155, 224203 | 3.9 | |
| 288 | Spectroscopic study of L-DOPA and dopamine binding on novel gold nanoparticles towards more efficient drug-delivery system for Parkinson's disease.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 268, 120707 | 4.4 | 1 |
| 287 | C-terminus amidation influences biological activity and membrane interaction of maculatin 1.1. *Amino Acids*, **2021**, 53, 769-777 | 3.5 | 1 |
| 286 | Expression and purification of the native C-amidated antimicrobial peptide maculatin 1.1. *Journal of Peptide Science*, **2021**, 27, e3330 | 2.1 | 1 |
| 285 | Structural Disruptions of the Outer Membranes of Gram-Negative Bacteria by Rationally Designed Amphiphilic Antimicrobial Peptides. *ACS Applied Materials & Interfaces*, **2021**, 13, 16062-16074 | 9.5 | 5 |
| 284 | Polarization Transfer to External Nuclear Spins Using Ensembles of Nitrogen-Vacancy Centers. *Physical Review Applied*, **2021**, 15, | 4.3 | 5 |
| 283 | Utilizing magnetic resonance techniques to study membrane interactions of amyloid peptides. *Biochemical Society Transactions*, **2021**, 49, 1457-1465 | 5.1 | 0 |
| 282 | Chemical Exchange of Hydroxyl Groups in Lipidic Cubic Phases Characterized by NMR. *Journal of Physical Chemistry B*, **2021**, 125, 571-580 | 3.4 | 1 |
| 281 | NMR Chemical Shift and Methylation of 4-Nitroimidazole: Experiment and Theory. *Australian Journal of Chemistry*, **2021**, 74, 48 | 1.2 | 2 |
| 280 | In-Cell Solid-State NMR Analysis of Membrane Proteins. *Australian Journal of Chemistry*, **2021**, 74, 362 | 1.2 | |
| 279 | TOAC spin-labeled peptides tailored for DNP-NMR studies in lipid membrane environments. *Biophysical Journal*, **2021**, 120, 4501-4511 | 2.9 | 1 |

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| 278 | Chemically modified and conjugated antimicrobial peptides against superbugs. *Chemical Society Reviews*, **2021**, 50, 4932-4973 | 58.5 | 71 |
| 277 | Prospects for nuclear spin hyperpolarization of molecular samples using nitrogen-vacancy centers in diamond. *Physical Review B*, **2021**, 103, | 3.3 | 7 |
| 276 | Physiochemical Characterization and Stability of Lipidic Cubic Phases by Solution NMR. *Langmuir*, **2020**, 36, 6254-6260 | 4 | 3 |
| 275 | The Location of the Antimicrobial Peptide Maculatin 1.1 in Model Bacterial Membranes. *Frontiers in Chemistry*, **2020**, 8, 572 | 5 | 5 |
| 274 | The antimicrobial peptide maculatin self assembles in parallel to form a pore in phospholipid bilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183204 | 3.8 | 15 |
| 273 | A multifunctional surfactant catalyst inspired by hydrolases. *Science Advances*, **2020**, 6, eaaz0404 | 14.3 | 18 |
| 272 | 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 | 1.2 | 1 |
| 271 | In-cell Solid-State NMR Studies of Antimicrobial Peptides.. *Frontiers in Medical Technology*, **2020**, 2, 610203 | 2.9 | 4 |
| 270 | 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 | 1.2 | |
| 269 | Solid-State NMR **2020**, | | 3 |
| 268 | How do Self-Assembling Antimicrobial Lipopeptides Kill Bacteria?. *ACS Applied Materials & Interfaces*, **2020**, 12, 55675-55687 | 9.5 | 10 |
| 267 | (Re)Defining the Proline-Rich Antimicrobial Peptide Family and the Identification of Putative New Members. *Frontiers in Chemistry*, **2020**, 8, 607769 | 5 | 12 |
| 266 | Combating bacterial resistance by combination of antibiotics with antimicrobial peptides. *Pure and Applied Chemistry*, **2019**, 91, 199-209 | 2.1 | 27 |
| 265 | Metallo-Cubosomes: Zinc-Functionalized Cubic Nanoparticles for Therapeutic Nucleotide Delivery. *Molecular Pharmaceutics*, **2019**, 16, 978-986 | 5.6 | 19 |
| 264 | Cholesterol-Dependent Cytolysins: Membrane and Protein Structural Requirements for Pore Formation. *Chemical Reviews*, **2019**, 119, 7721-7736 | 68.1 | 22 |
| 263 | Membrane biophysics session. *Biophysical Reviews*, **2019**, 11, 283-284 | 3.7 | 0 |
| 262 | Biophysics & Structural Biology at Synchrotrons BSBS 2019 Biological NMR Session. *Biophysical Reviews*, **2019**, 11, 531-532 | 3.7 | 0 |
| 261 | In Situ Monitoring of Bacteria under Antimicrobial Stress Using P Solid-State NMR. *International Journal of Molecular Sciences*, **2019**, 20, | 6.3 | 20 |

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| 260 | Nitroxide spin-labeled peptides for DNP-NMR in-cell studies. *FASEB Journal*, **2019**, 33, 11021-11027 | 0.9 | 21 |
| 259 | Heteronuclear NMR spectroscopy of proteins encapsulated in cubic phase lipids. *Journal of Magnetic Resonance*, **2019**, 305, 146-151 | 3 | 6 |
| 258 | 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 | 9.7 | 36 |
| 257 | Covalent conjugation of cationic antimicrobial peptides with a lactam antibiotic core. *Peptide Science*, **2018**, 110, e24059 | 3 | 12 |
| 256 | Interaction of cationic antimicrobial peptides from Australian frogs with lipid membranes. *Peptide Science*, **2018**, 110, e24061 | 3 | 13 |
| 255 | Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. *Cell Chemical Biology*, **2018**, 25, 380-391.e5 | 8.2 | 44 |
| 254 | F NMR studies provide insights into lipid membrane interactions of listeriolysin O, a pore forming toxin from Listeria monocytogenes. *Scientific Reports*, **2018**, 8, 6894 | 4.9 | 10 |
| 253 | 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 | 3.8 | 6 |
| 252 | Interaction of N-terminal peptide analogues of the Na,K-ATPase with membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 1282-1291 | 3.8 | 22 |
| 251 | Aggregation kinetics in the presence of brain lipids of A(1-40) cleaved from a soluble fusion protein. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 1681-1686 | 3.8 | 6 |
| 250 | 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 | 3.8 | 13 |
| 249 | Antimicrobial Peptide Structures: From Model Membranes to Live Cells. *Chemistry - A European Journal*, **2018**, 24, 286-291 | 4.8 | 15 |
| 248 | Listeriolysin O Binding Affects Cholesterol and Phospholipid Acyl Chain Dynamics in Fluid Cholesterol-Rich Bilayers. *Chemistry - A European Journal*, **2018**, 24, 14220-14225 | 4.8 | 8 |
| 247 | Stability and activity of lysozyme in stoichiometric and non-stoichiometric protic ionic liquid (PIL)-water systems. *Journal of Chemical Physics*, **2018**, 148, 193838 | 3.9 | 26 |
| 246 | Measuring translational diffusion of N-enriched biomolecules in complex solutions with a simplified H-N HMQC-filtered BEST sequence. *European Biophysics Journal*, **2018**, 47, 891-902 | 1.9 | 6 |
| 245 | Elucidating the bactericidal mechanism of action of the linear antimicrobial tetrapeptide BRBR-NH. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 1517-1527 | 3.8 | 7 |
| 244 | Effect of dimerized melittin on gastric cancer cells and antibacterial activity. *Amino Acids*, **2018**, 50, 1101-1110 | 3.5 | 14 |
| 243 | Incorporation of antimicrobial peptides in nanostructured lipid membrane mimetic bilayer cubosomes. *Colloids and Surfaces B: Biointerfaces*, **2017**, 152, 143-151 | 6 | 54 |

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| 242 | Orientation and Location of the Cyclotide Kalata B1 in Lipid Bilayers Revealed by Solid-State NMR. *Biophysical Journal*, **2017**, 112, 630-642 | 2.9 | 15 |
| 241 | A QCM-D and SAXS Study of the Interaction of Functionalised Lyotropic Liquid Crystalline Lipid Nanoparticles with siRNA. *ChemBioChem*, **2017**, 18, 921-930 | 3.8 | 14 |
| 240 | Atomic Force Microscopy Studies of the Interaction of Antimicrobial Peptides with Bacterial Cells. *Australian Journal of Chemistry*, **2017**, 70, 130 | 1.2 | 2 |
| 239 | Fluorescent Ion Efflux Screening Assay for Determining Membrane-Active Peptides. *Australian Journal of Chemistry*, **2017**, 70, 220 | 1.2 | 2 |
| 238 | Glycine Substitution Reduces Antimicrobial Activity and Helical Stretch of diPGLa-H in Lipid Micelles. *Journal of Physical Chemistry B*, **2017**, 121, 4817-4822 | 3.4 | 7 |
| 237 | One pathogen two stones: are Australian tree frog antimicrobial peptides synergistic against human pathogens?. *European Biophysics Journal*, **2017**, 46, 639-646 | 1.9 | 7 |
| 236 | Role of the Tryptophan-Rich Motif of Listeriolysin O in Membrane Binding. *Biophysical Journal*, **2017**, 112, 524a | 2.9 | 2 |
| 235 | Relaxin family peptides: structure-activity relationship studies. *British Journal of Pharmacology*, **2017**, 174, 950-961 | 8.6 | 47 |
| 234 | 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 | 7.7 | 27 |
| 233 | Membrane-active peptides, IUPAB/EBSA symposium, Edinburgh. *Biophysical Reviews*, **2017**, 9, 283-284 | 3.7 | |
| 232 | 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 | 3.5 | 9 |
| 231 | 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 | 6.5 | 7 |
| 230 | Zinc-coordination and C-peptide complexation: a potential mechanism for the endogenous inhibition of IAPP aggregation. *Chemical Communications*, **2017**, 53, 9394-9397 | 5.8 | 18 |
| 229 | Copolyampholytes Produced from RAFT Polymerization of Protic Ionic Liquids. *Macromolecules*, **2017**, 50, 8965-8978 | 5.5 | 11 |
| 228 | Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. *ACS Infectious Diseases*, **2017**, 3, 606-619 | 5.5 | 20 |
| 227 | Implications of peptide assemblies in amyloid diseases. *Chemical Society Reviews*, **2017**, 46, 6492-6531 | 58.5 | 198 |
| 226 | Membrane-Mimetic Inverse Bicontinuous Cubic Phase Systems for Encapsulation of Peptides and Proteins. *Advances in Biomembranes and Lipid Self-Assembly*, **2017**, 63-94 | 1 | 5 |
| 225 | Phosphorylation of a full length amyloid-β peptide modulates its amyloid aggregation, cell binding and neurotoxic properties. *Molecular BioSystems*, **2017**, 13, 1545-1551 | | 13 |

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| 224 | C-Terminal Modification and Multimerization Increase the Efficacy of a Proline-Rich Antimicrobial Peptide. *Chemistry - A European Journal*, **2017**, 23, 390-396 | 4.8 | 19 |
| 223 | A nanomechanical study of the effects of colistin on the Klebsiella pneumoniae AJ218 capsule. *European Biophysics Journal*, **2017**, 46, 351-361 | 1.9 | 8 |
| 222 | Chemical Synthesis and Characterization of an Equinatoxin II(1-85) Analogue. *Molecules*, **2017**, 22, | 4.8 | 2 |
| 221 | The Effect of Selective D- or N-Methyl Arginine Substitution on the Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. *Frontiers in Chemistry*, **2017**, 5, 1 | 5 | 51 |
| 220 | The efficient synthesis and purification of amyloid-β(1-42) using an oligoethylene glycol-containing photocleavable lysine tag. *Chemical Communications*, **2017**, 53, 6903-6905 | 5.8 | 11 |
| 219 | Activity and conformation of lysozyme in molecular solvents, protic ionic liquids (PILs) and salt-water systems. *Physical Chemistry Chemical Physics*, **2016**, 18, 25926-25936 | 3.6 | 29 |
| 218 | A One-Pot Chemically Cleavable Bis-Linker Tether Strategy for the Synthesis of Heterodimeric Peptides. *Angewandte Chemie - International Edition*, **2016**, 55, 14552-14556 | 16.4 | 15 |
| 217 | Micelle formation of a non-ionic surfactant in non-aqueous molecular solvents and protic ionic liquids (PILs). *Physical Chemistry Chemical Physics*, **2016**, 18, 24377-86 | 3.6 | 24 |
| 216 | Antimicrobial Peptides Share a Common Interaction Driven by Membrane Line Tension Reduction. *Biophysical Journal*, **2016**, 111, 2176-2189 | 2.9 | 40 |
| 215 | Interaction of the antimicrobial peptides caerin 1.1 and aurein 1.2 with intact bacteria by H solid-state NMR. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 2959-2964 | 3.8 | 34 |
| 214 | A One-Pot Chemically Cleavable Bis-Linker Tether Strategy for the Synthesis of Heterodimeric Peptides. *Angewandte Chemie*, **2016**, 128, 14772-14776 | 3.6 | 5 |
| 213 | 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 | 16.4 | 21 |
| 212 | Total Chemical Synthesis of an Intra-A-Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. *Angewandte Chemie - International Edition*, **2016**, 55, 14743-14747 | 16.4 | 28 |
| 211 | Total Chemical Synthesis of an Intra-A-Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. *Angewandte Chemie*, **2016**, 128, 14963-14967 | 3.6 | 12 |
| 210 | Hypercrosslinked Additives for Ageless Gas-Separation Membranes. *Angewandte Chemie*, **2016**, 128, 2038-2041 | 3.6 | 16 |
| 209 | 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 | 3.5 | 13 |
| 208 | Hypercrosslinked Additives for Ageless Gas-Separation Membranes. *Angewandte Chemie - International Edition*, **2016**, 55, 1998-2001 | 16.4 | 81 |
| 207 | Engineering of a Novel Simplified Human Insulin-Like Peptide 5 Agonist. *Journal of Medicinal Chemistry*, **2016**, 59, 2118-25 | 8.3 | 18 |

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| 206 | Membrane interactions of proline-rich antimicrobial peptide, Chex1-Arg20, multimers. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 1236-43 | 3.8 | 24 |
| 205 | Atomic force microscopy of bacteria reveals the mechanobiology of pore forming peptide action. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 1091-8 | 3.8 | 31 |
| 204 | Model Membrane and Cell Studies of Antimicrobial Activity of Melittin Analogues. *Current Topics in Medicinal Chemistry*, **2016**, 16, 40-5 | 3 | 47 |
| 203 | Amyloid Beta (A)Peptide and Factors that Play Important Roles in Alzheimer's Disease. *Current Medicinal Chemistry*, **2016**, 23, 884-92 | 4.3 | 20 |
| 202 | How Membrane-Active Peptides Get into Lipid Membranes. *Accounts of Chemical Research*, **2016**, 49, 1130-8 | 24.3 | 234 |
| 201 | Innentitelbild: A One-Pot Chemically Cleavable Bis-Linker Tether Strategy for the Synthesis of Heterodimeric Peptides (Angew. Chem. 47/2016). *Angewandte Chemie*, **2016**, 128, 14688-14688 | 3.6 | |
| 200 | Exploring the structural relationship between encapsulated antimicrobial peptides and the bilayer membrane mimetic lipidic cubic phase: studies with gramicidin A?. *RSC Advances*, **2016**, 6, 68685-68694 | 3.7 | 21 |
| 199 | Subtle Differences in Initial Membrane Interactions Underpin the Selectivity of Small Antimicrobial Peptides. *ChemPlusChem*, **2015**, 80, 91-96 | 2.8 | 10 |
| 198 | Proline-15 creates an amphipathic wedge in maculatin 1.1 peptides that drives lipid membrane disruption. *Biochimica Et Biophysica Acta - Biomembranes*, **2015**, 1848, 2277-89 | 3.8 | 21 |
| 197 | Cellular disulfide bond formation in bioactive peptides and proteins. *International Journal of Molecular Sciences*, **2015**, 16, 1791-805 | 6.3 | 36 |
| 196 | Characterization of the Lipid-Binding Site of Equinatoxin II by NMR and Molecular Dynamics Simulation. *Biophysical Journal*, **2015**, 108, 1987-96 | 2.9 | 34 |
| 195 | Atomic Force Microscopy Reveals the Mechanobiology of Lytic Peptide Action on Bacteria. *Langmuir*, **2015**, 31, 6164-71 | 4 | 39 |
| 194 | Progression of NMR studies of membrane-active peptides from lipid bilayers to live cells. *Journal of Magnetic Resonance*, **2015**, 253, 138-42 | 3 | 17 |
| 193 | The Prototypic Cyclotide Kalata B1 Has a Unique Mechanism of Entering Cells. *Chemistry and Biology*, **2015**, 22, 1087-97 | | 56 |
| 192 | C-Terminal Modifications Broaden Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. *Australian Journal of Chemistry*, **2015**, 68, 1373 | 1.2 | 14 |
| 191 | Multimerization of a Proline-Rich Antimicrobial Peptide, Chex-Arg20, Alters Its Mechanism of Interaction with the Escherichia coli Membrane. *Chemistry and Biology*, **2015**, 22, 1250-8 | | 42 |
| 190 | Membrane accessibility of glutathione. *Biochimica Et Biophysica Acta - Biomembranes*, **2015**, 1848, 2430-6 | 3.8 | 8 |
| 189 | Structure and Membrane Topology of the Pore-Forming Peptide Maculatin 1.1. *Biophysical Journal*, **2015**, 108, 549a | 2.9 | 2 |

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| 188 | Synthetic covalently linked dimeric form of H2 relaxin retains native RXFP1 activity and has improved in vitro serum stability. *BioMed Research International*, **2015**, 2015, 731852 | 3 | 11 |
| 187 | Site of fluorescent label modifies interaction of melittin with live cells and model membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2015**, 1848, 2031-9 | 3.8 | 12 |
| 186 | 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, 19853-62 | 5.4 | 38 |
| 185 | Cyclization enhances function of linear anti-arthritic peptides. *Clinical Immunology*, **2014**, 150, 121-33 | 9 | 8 |
| 184 | Membrane interactions and biological activity of antimicrobial peptides from Australian scorpion. *Biochimica Et Biophysica Acta - Biomembranes*, **2014**, 1838, 2140-8 | 3.8 | 23 |
| 183 | 2-nitroveratryl as a photocleavable thiol-protecting group for directed disulfide bond formation in the chemical synthesis of insulin. *Chemistry - A European Journal*, **2014**, 20, 9549-52 | 4.8 | 32 |
| 182 | Proline-rich antimicrobial peptides: potential therapeutics against antibiotic-resistant bacteria. *Amino Acids*, **2014**, 46, 2287-94 | 3.5 | 130 |
| 181 | Measuring translational diffusion coefficients of peptides and proteins by PFG-NMR using band-selective RF pulses. *European Biophysics Journal*, **2014**, 43, 331-9 | 1.9 | 25 |
| 180 | Comparison of reversible membrane destabilisation induced by antimicrobial peptides derived from Australian frogs. *Biochimica Et Biophysica Acta - Biomembranes*, **2014**, 1838, 2205-15 | 3.8 | 18 |
| 179 | The investigation of membrane binding by amphibian peptide agonists of CCK2R using (31)P and (2)H solid-state NMR. *Peptides*, **2014**, 55, 98-102 | 3.8 | 3 |
| 178 | Dye-release assay for investigation of antimicrobial peptide activity in a competitive lipid environment. *European Biophysics Journal*, **2014**, 43, 445-50 | 1.9 | 38 |
| 177 | Melittin peptides exhibit different activity on different cells and model membranes. *Amino Acids*, **2014**, 46, 2759-66 | 3.5 | 52 |
| 176 | CHAPTER 15:Solid-State NMR Studies of Antimicrobial Peptide Interactions with Specific Lipid Environments. *New Developments in NMR*, **2014**, 287-303 | 0.9 | 5 |
| 175 | The Importance of Tryptophan B28 in H2 Relaxin for RXFP2 Binding and Activation. *International Journal of Peptide Research and Therapeutics*, **2013**, 19, 55-60 | 2.1 | 1 |
| 174 | Structural effects of the antimicrobial peptide maculatin 1.1 on supported lipid bilayers. *European Biophysics Journal*, **2013**, 42, 47-59 | 1.9 | 40 |
| 173 | Controlling nanostructure and lattice parameter of the inverse bicontinuous cubic phases in functionalised phytantriol dispersions. *Journal of Colloid and Interface Science*, **2013**, 408, 117-24 | 9.3 | 27 |
| 172 | Proline facilitates membrane insertion of the antimicrobial peptide maculatin 1.1 via surface indentation and subsequent lipid disordering. *Biophysical Journal*, **2013**, 104, 1495-507 | 2.9 | 46 |
| 171 | Membrane defects enhance the interaction of antimicrobial peptides, aurein 1.2 versus caerin 1.1. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 1863-72 | 3.8 | 28 |

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| 170 | Maculatin 1.1 disrupts Staphylococcus aureus lipid membranes via a pore mechanism. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 3593-600 | 5.9 | 34 |
| 169 | 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, 504260 | | 12 |
| 168 | Synthesis of fluorescent analogs of relaxin family peptides and their preliminary in vitro and in vivo characterization. *Frontiers in Chemistry*, **2013**, 1, 30 | 5 | 7 |
| 167 | A practical implementation of de-Pake-ing via weighted Fourier transformation. *PeerJ*, **2013**, 1, e30 | 3.1 | 12 |
| 166 | Surface immobilization of bio-functionalized cubosomes: sensing of proteins by quartz crystal microbalance. *Langmuir*, **2012**, 28, 620-7 | 4 | 28 |
| 165 | The antimicrobial peptide aurein 1.2 disrupts model membranes via the carpet mechanism. *Physical Chemistry Chemical Physics*, **2012**, 14, 15739-51 | 3.6 | 116 |
| 164 | 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, 1671-81 | 8.3 | 68 |
| 163 | Lipid composition regulates the conformation and insertion of the antimicrobial peptide maculatin 1.1. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 205-11 | 3.8 | 47 |
| 162 | Membrane protein structure and function. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 125 | 3.8 | |
| 161 | Electrochemistry of room temperature protic ionic liquids: a critical assessment for use as electrolytes in electrochemical applications. *Journal of Physical Chemistry B*, **2012**, 116, 9160-70 | 3.4 | 80 |
| 160 | Host-defense peptides of Australian anurans. Part 2. Structure, activity, mechanism of action, and evolutionary significance. *Peptides*, **2012**, 37, 174-88 | 3.8 | 51 |
| 159 | Human relaxin-2: historical perspectives and role in cancer biology. *Amino Acids*, **2012**, 43, 1131-40 | 3.5 | 21 |
| 158 | The lipid network. *Biophysical Reviews*, **2012**, 4, 283-290 | 3.7 | 7 |
| 157 | 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, 41152-64 | 5.4 | 18 |
| 156 | Copper Modulation of Amyloid Beta 42 Interactions with Model Membranes. *Australian Journal of Chemistry*, **2012**, 65, 472 | 1.2 | 11 |
| 155 | Modeling the membrane environment for membrane proteins. *Biophysical Journal*, **2011**, 100, 2073-4; author reply 2075 | 2.9 | 16 |
| 154 | Disentanglement of heterogeneous dynamics in mixed lipid systems. *Biophysical Journal*, **2011**, 100, L40-2 | 2.9 | 15 |
| 153 | Development of Cubosomes as a Cell-Free Biosensing Platform. *Australian Journal of Chemistry*, **2011**, 64, 46 | 1.2 | 20 |

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| 152 | Preparation and biological evaluation of self-assembled cubic phases for the polyvalent inhibition of cholera toxin. *Soft Matter*, **2011**, 7, 6125 | 3.6 | 12 |
| 151 | Stereospecific interactions are necessary for Alzheimer disease amyloid-β toxicity. *Neurobiology of Aging*, **2011**, 32, 235-48 | 5.6 | 43 |
| 150 | Lipid matrix plays a role in Abeta fibril kinetics and morphology. *FEBS Letters*, **2011**, 585, 749-54 | 3.8 | 63 |
| 149 | QCM-D fingerprinting of membrane-active peptides. *European Biophysics Journal*, **2011**, 40, 437-46 | 1.9 | 98 |
| 148 | Interactions of a synthetic Leu-Lys-rich antimicrobial peptide with phospholipid bilayers. *European Biophysics Journal*, **2011**, 40, 471-80 | 1.9 | 24 |
| 147 | Special issue on membrane-active peptides. *European Biophysics Journal*, **2011**, 40, 347-8 | 1.9 | 3 |
| 146 | General method for selective labelling of double-chain cysteine-rich peptides with a lanthanide chelate via solid-phase synthesis. *Journal of Peptide Science*, **2011**, 17, 169-73 | 2.1 | 13 |
| 145 | Design and development of analogues of dimers of insulin-like peptide 3 B-chain as high-affinity antagonists of the RXFP2 receptor. *Biopolymers*, **2011**, 96, 81-7 | 2.2 | 16 |
| 144 | The relaxin peptide family--structure, function and clinical applications. *Protein and Peptide Letters*, **2011**, 18, 220-9 | 1.9 | 35 |
| 143 | Interactions of the Antimicrobial Peptide Maculatin 1.1 and Analogues with Phospholipid Bilayers. *Australian Journal of Chemistry*, **2011**, 64, 798 | 1.2 | 16 |
| 142 | Solid-state NMR of amyloid membrane interactions. *Methods in Molecular Biology*, **2011**, 752, 165-77 | 1.4 | 2 |
| 141 | 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, 32282-92 | 5.4 | 26 |
| 140 | Solid-state NMR study of membrane interactions of the pore-forming cytolysin, equinatoxin II. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 244-51 | 3.8 | 21 |
| 139 | Real-time quantitative analysis of lipid disordering by aurein 1.2 during membrane adsorption, destabilisation and lysis. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 1977-86 | 3.8 | 71 |
| 138 | Preparation of protic ionic liquids with minimal water content and (15)N NMR study of proton transfer. *Physical Chemistry Chemical Physics*, **2010**, 12, 1571-7 | 3.6 | 116 |
| 137 | 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, 11436-43 | 3.4 | 30 |
| 136 | Non-Newtonian viscous shear thinning in ionic liquids. *Soft Matter*, **2010**, 6, 2080 | 3.6 | 98 |
| 135 | Self-assembly of peptides into spherical nanoparticles for delivery of hydrophilic moieties to the cytosol. *ACS Nano*, **2010**, 4, 2856-64 | 16.7 | 20 |

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