Frances Separovic

List of Publications by Citations

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	Effect of Alkali Cations on Aluminum Incorporation in Geopolymeric Gels. *Industrial & Engineering Chemistry Research*, **2005**, 44, 832-839	3.9	296
294	29Si NMR study of structural ordering in aluminosilicate geopolymer gels. *Langmuir*, **2005**, 21, 3028-36	4	275
293	How Membrane-Active Peptides Get into Lipid Membranes. *Accounts of Chemical Research*, **2016**, 49, 1130-8	24.3	234
292	Electrochemistry of room temperature protic ionic liquids. *Journal of Physical Chemistry B*, **2008**, 112, 6923-36	3.4	233
291	Interfacial anchor properties of tryptophan residues in transmembrane peptides can dominate over hydrophobic matching effects in peptide-lipid interactions. *Biochemistry*, **2003**, 42, 5341-8	3.2	233
290	Implications of peptide assemblies in amyloid diseases. *Chemical Society Reviews*, **2017**, 46, 6492-6531	58.5	198
289	Direct visualization of membrane leakage induced by the antibiotic peptides: maculatin, citropin, and aurein. *Biophysical Journal*, **2005**, 89, 1874-81	2.9	198
288	Host-defence peptides of Australian anurans: structure, mechanism of action and evolutionary significance. *Peptides*, **2004**, 25, 1035-54	3.8	190
287	Surface behavior and lipid interaction of Alzheimer beta-amyloid peptide 1-42: a membrane-disrupting peptide. *Biophysical Journal*, **2005**, 88, 2706-13	2.9	158
286	Neurotoxic, redox-competent Alzheimer's beta-amyloid is released from lipid membrane by methionine oxidation. *Journal of Biological Chemistry*, **2003**, 278, 42959-65	5.4	156
285	Structure and orientation of the pore-forming peptide, melittin, in lipid bilayers. *Journal of Molecular Biology*, **1994**, 241, 456-66	6.5	154
284	Copper-mediated amyloid-beta toxicity is associated with an intermolecular histidine bridge. *Journal of Biological Chemistry*, **2006**, 281, 15145-54	5.4	150
283	Amyloid-beta peptide disruption of lipid membranes and the effect of metal ions. *Journal of Molecular Biology*, **2006**, 356, 759-70	6.5	145
282	Conformation and orientation of gramicidin a in oriented phospholipid bilayers measured by solid state carbon-13 NMR. *Biophysical Journal*, **1988**, 53, 67-76	2.9	138
281	Proline-rich antimicrobial peptides: potential therapeutics against antibiotic-resistant bacteria. *Amino Acids*, **2014**, 46, 2287-94	3.5	130
280	Specific and selective peptide-membrane interactions revealed using quartz crystal microbalance. *Biophysical Journal*, **2007**, 93, 3907-16	2.9	122
279	Interaction of antimicrobial peptides from Australian amphibians with lipid membranes. *Chemistry and Physics of Lipids*, **2003**, 122, 107-20	3.7	118

278	The antimicrobial peptide aurein 1.2 disrupts model membranes via the carpet mechanism. *Physical Chemistry Chemical Physics*, **2012**, 14, 15739-51	3.6	116
277	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
276	QCM-D fingerprinting of membrane-active peptides. *European Biophysics Journal*, **2011**, 40, 437-46	1.9	98
275	Non-Newtonian viscous shear thinning in ionic liquids. *Soft Matter*, **2010**, 6, 2080	3.6	98
274	A multidimensional 1H NMR investigation of the conformation of methionine-enkephalin in fast-tumbling bicelles. *Biophysical Journal*, **2004**, 86, 1587-600	2.9	91
273	Membrane thickness and acyl chain length. *Biochimica Et Biophysica Acta - Biomembranes*, **1983**, 733, 189-93	3.8	90
272	Surface behaviour and peptide-lipid interactions of the antibiotic peptides, Maculatin and Citropin. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1664, 31-7	3.8	84
271	Membrane interactions of antimicrobial peptides from Australian tree frogs. *Biochimica Et Biophysica Acta - Biomembranes*, **2006**, 1758, 1178-83	3.8	82
270	Hypercrosslinked Additives for Ageless Gas-Separation Membranes. *Angewandte Chemie - International Edition*, **2016**, 55, 1998-2001	16.4	81
269	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
268	Determination of the structure of a membrane-incorporated ion channel. Solid-state nuclear magnetic resonance studies of gramicidin A. *Biophysical Journal*, **1989**, 56, 307-14	2.9	80
267	Interaction of the eukaryotic pore-forming cytolysin equinatoxin II with model membranes: 19F NMR studies. *Journal of Molecular Biology*, **2005**, 347, 27-39	6.5	79
266	The human insulin superfamily of polypeptide hormones. *Vitamins and Hormones*, **2009**, 80, 1-31	2.5	78
265	Effect of antimicrobial peptides from Australian tree frogs on anionic phospholipid membranes. *Biochemistry*, **2008**, 47, 8557-65	3.2	78
264	Methionine regulates copper/hydrogen peroxide oxidation products of Abeta. *Journal of Peptide Science*, **2005**, 11, 353-60	2.1	77
263	Gramicidin channel controversy--the structure in a lipid environment. *Nature Structural Biology*, **1999**, 6, 609; discussion 611-2		77
262	Solid-state NMR study of antimicrobial peptides from Australian frogs in phospholipid membranes. *European Biophysics Journal*, **2004**, 33, 109-16	1.9	76
261	Solid-state NMR structure determination of melittin in a lipid environment. *Biophysical Journal*, **2001**, 81, 2752-61	2.9	76

260	Selective permeabilization of the host cell membrane of Plasmodium falciparum-infected red blood cells with streptolysin O and equinatoxin II. *Biochemical Journal*, **2007**, 403, 167-75	3.8	75
259	The molecular packing and stability within highly curved phospholipid bilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **1980**, 598, 405-10	3.8	75
258	Membrane interactions of antimicrobial peptides from Australian frogs. *Biochimica Et Biophysica Acta - Biomembranes*, **2009**, 1788, 1630-8	3.8	74
257	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
256	beta-Sheet structured beta-amyloid(1-40) perturbs phosphatidylcholine model membranes. *Journal of Molecular Biology*, **2007**, 368, 982-97	6.5	71
255	Chemically modified and conjugated antimicrobial peptides against superbugs. *Chemical Society Reviews*, **2021**, 50, 4932-4973	58.5	71
254	Physicochemical characterization and stability of rifampicin liposome dry powder formulations for inhalation. *Journal of Pharmaceutical Sciences*, **2009**, 98, 628-39	3.9	70
253	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
252	Modeling Speciation in Highly Concentrated Alkaline Silicate Solutions. *Industrial & Engineering Chemistry Research*, **2005**, 44, 8899-8908	3.9	68
251	39K NMR of Free Potassium in Geopolymers. *Industrial & Engineering Chemistry Research*, **2006**, 45, 9208-9210	3.9	65
250	Effects of the eukaryotic pore-forming cytolysin Equinatoxin II on lipid membranes and the role of sphingomyelin. *Biophysical Journal*, **2003**, 84, 2382-92	2.9	65
249	Lipid matrix plays a role in Abeta fibril kinetics and morphology. *FEBS Letters*, **2011**, 585, 749-54	3.8	63
248	EPR and NMR measurements on high-temperature superconductors. *Journal of Physics C: Solid State Physics*, **1987**, 20, L545-L552		60
247	The Prototypic Cyclotide Kalata B1 Has a Unique Mechanism of Entering Cells. *Chemistry and Biology*, **2015**, 22, 1087-97		56
246	Gramicidin channel controversy--revisited. *Nature Structural Biology*, **1999**, 6, 610-1; discussion 611-2		55
245	Incorporation of antimicrobial peptides in nanostructured lipid membrane mimetic bilayer cubosomes. *Colloids and Surfaces B: Biointerfaces*, **2017**, 152, 143-151	6	54
244	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, 2787-800	3.8	54
243	Effect of unsaturation on the chain order of phosphatidylcholines in a dioleoylphosphatidylethanolamine matrix. *Biophysical Journal*, **1996**, 71, 274-82	2.9	54

242	Melittin peptides exhibit different activity on different cells and model membranes. *Amino Acids*, **2014**, 46, 2759-66	3.5	52
241	Solid-phase synthesis of europium-labeled human INSL3 as a novel probe for the study of ligand-receptor interactions. *Bioconjugate Chemistry*, **2008**, 19, 1456-63	6.3	52
240	Solid-state NMR structure determination. *IUBMB Life*, **2003**, 55, 515-23	4.7	52
239	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
238	Host-defense peptides of Australian anurans. Part 2. Structure, activity, mechanism of action, and evolutionary significance. *Peptides*, **2012**, 37, 174-88	3.8	51
237	Solid-state NMR relaxation studies of Australian spider silks. *Biopolymers*, **2001**, 61, 287-97	2.2	51
236	The lower limit to the size of small sonicated phospholipid vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **1982**, 690, 15-9	3.8	51
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221	A solid-state NMR study of protein hydration and stability. *Pharmaceutical Research*, **1998**, 15, 1816-21	4.5	44
220	The interactions of the N-terminal fusogenic peptide of HIV-1 gp41 with neutral phospholipids. *European Biophysics Journal*, **1999**, 28, 427-36	1.9	44
219	Stereospecific interactions are necessary for Alzheimer disease amyloid-□toxicity. *Neurobiology of Aging*, **2011**, 32, 235-48	5.6	43
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217	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
216	Metal effects on the membrane interactions of amyloid-beta peptides. *European Biophysics Journal*, **2008**, 37, 333-44	1.9	42
215	Antimicrobial Peptides Share a Common Interaction Driven by Membrane Line Tension Reduction. *Biophysical Journal*, **2016**, 111, 2176-2189	2.9	40
214	Structural effects of the antimicrobial peptide maculatin 1.1 on supported lipid bilayers. *European Biophysics Journal*, **2013**, 42, 47-59	1.9	40
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