Marie-Isabel Aguilar

List of Publications by Year
in descending order

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167 papers	6,333 citations	50244 46 h-index	85498 71 g-index
175 all docs	175 docs citations	175 times ranked	8085 citing authors

#	Article	IF	Citations
1	Antimicrobial Peptide Structure and Mechanism of Action: A Focus on the Role of Membrane Structure. Current Topics in Medicinal Chemistry, 2015, 16, 25-39.	1.0	313
2	β-Amino Acids: Versatile Peptidomimetics. Current Medicinal Chemistry, 2002, 9, 811-822.	1.2	275
3	Relative affinity of angiotensin peptides and novel ligands at AT1 and AT2 receptors. Clinical Science, 2011, 121, 297-303.	1.8	241
4	The Î²-amyloid protein of Alzheimer's disease increases neuronal CRMP-2 phosphorylation by a Rho-GTP mechanism. Brain, 2008, 131, 90-108.	3.7	165
5	Transthyretin and familial amyloidotic polyneuropathy. FEBS Journal, 2007, 274, 1637-1650.	2.2	146
6	Physicochemical Basis of Amino Acid Hydrophobicity Scales: Evaluation of Four New Scales of Amino Acid Hydrophobicity Coefficients Derived from RP-HPLC of Peptides. Analytical Chemistry, 1995, 67, 1210-1219.	3.2	142
7	Analysis of antimicrobial peptide interactions with hybrid bilayer membrane systems using surface plasmon resonance. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1512, 64-76.	1.4	140
8	Studies on the membrane interactions of the cyclotides kalata B1 and kalata B6 on model membrane systems by surface plasmon resonance. Analytical Biochemistry, 2005, 337, 149-153.	1.1	125
9	Î²-Amino acid-containing hybrid peptidesâ€"new opportunities in peptidomimetics. Organic and Biomolecular Chemistry, 2007, 5, 2884.	1.5	114
10	Crystal structure of the soluble form of the redox-regulated chloride ion channel protein CLIC4. FEBS Journal, 2005, 272, 4996-5007.	2.2	112
11	Structural Rearrangement of Î²-Lactoglobulin at Different Oilâ€"Water Interfaces and Its Effect on Emulsion Stability. Langmuir, 2011, 27, 9227-9236.	1.6	112
12	Surface plasmon resonance spectroscopy: An emerging tool for the study of peptide-membrane interactions. Biopolymers, 2002, 66, 3-18.	1.2	105
13	Epitope Discovery and Their Use in Peptide Based Vaccines. Current Pharmaceutical Design, 2010, 16, 3149-3157.	0.9	104
14	Î²-Amyloid protein oligomers induced by metal ions and acid pH are distinct from those generated by slow spontaneous ageing at neutral pH. FEBS Journal, 2003, 270, 4282-4293.	0.2	98
15	Surface plasmon resonance biosensor for the detection of ochratoxin A in cereals and beverages. Analytica Chimica Acta, 2009, 656, 63-71.	2.6	93
16	Conformational changes to deamidated wheat gliadins and Î²-casein upon adsorption to oilâ€"water emulsion interfaces. Food Hydrocolloids, 2012, 27, 91-101.	5.6	92
17	Cholesterol is necessary both for the toxic effect of AÎ² peptides on vascular smooth muscle cells and for AÎ² binding to vascular smooth muscle cell membranes. Journal of Neurochemistry, 2003, 84, 471-479.	2.1	90
18	Influence of the Chain Length and Surface Density on the Conformation and Mobility of n-Alkyl Ligands Chemically Immobilized onto a Silica Surface. Analytical Chemistry, 1995, 67, 2145-2153.	3.2	87

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19	Effect of Antimicrobial Peptides from Australian Tree Frogs on Anionic Phospholipid Membranes. Biochemistry, 2008, 47, 8557-8565.	1.2	83
20	The ?-amyloid protein of Alzheimer?s disease binds to membrane lipids but does not bind to the ?7 nicotinic acetylcholine receptor. Journal of Neurochemistry, 2007, 101, 1527-1538.	2.1	81
21	PrP(106-126) Does Not Interact with Membranes under Physiological Conditions. Biophysical Journal, 2008, 95, 1877-1889.	0.2	74
22	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
23	A self-assembling Î²-peptide hydrogel for neural tissue engineering. Soft Matter, 2016, 12, 2243-2246.	1.2	74
24	Conformational Changes of Î±-Lactalbumin Adsorbed at Oilâ€“Water Interfaces: Interplay between Protein Structure and Emulsion Stability. Langmuir, 2012, 28, 2357-2367.	1.6	71
25	Supramolecular Selfâ€Assembly of Nâ€Acetylâ€Capped Î²â€Peptides Leads to Nanoâ€to Macroscale Fiber Formation. Angewandte Chemie - International Edition, 2013, 52, 8266-8270.	7.2	71
26	Revisiting Î²-Casein as a Stabilizer for Lipid Liquid Crystalline Nanostructured Particles. Langmuir, 2011, 27, 14757-14766.	1.6	67
27	Geometrically Precise Building Blocks: the Self-Assembly of Î²-Peptides. Chemistry and Biology, 2015, 22, 1417-1423.	6.2	67
28	Changes in Î²-Lactoglobulin Conformation at the Oil/Water Interface of Emulsions Studied by Synchrotron Radiation Circular Dichroism Spectroscopy. Biomacromolecules, 2010, 11, 2136-2142.	2.6	66
29	Transthyretin oligomers induce calcium influx via voltage-gated calcium channels. Journal of Neurochemistry, 2007, 100, 446-457.	2.1	65
30	Surface Plasmon Resonance Assay for Chloramphenicol. Analytical Chemistry, 2008, 80, 8329-8333.	3.2	63
31	Mitochondrial outer membrane permeabilization: a focus on the role of mitochondrial membrane structural organization. Biophysical Reviews, 2017, 9, 443-457.	1.5	62
32	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
33	Functional and Structural Characteristics of NY-ESO-1-related HLA A2-restricted Epitopes and the Design of a Novel Immunogenic Analogue. Journal of Biological Chemistry, 2004, 279, 23438-23446.	1.6	61
34	Exploring Molecular-Biomembrane Interactions with Surface Plasmon Resonance and Dual Polarization Interferometry Technology: Expanding the Spotlight onto Biomembrane Structure. Chemical Reviews, 2018, 118, 5392-5487.	23.0	61
35	[1] High-resolution reversed-phase high-performance liquid chromatography of peptides and proteins. Methods in Enzymology, 1996, 270, 3-26.	0.4	60
36	Real-time Measurement of Membrane Conformational States Induced by Antimicrobial Peptides: Balance Between Recovery and Lysis. Scientific Reports, 2014, 4, 5479.	1.6	58

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37	Anti-fibrotic Potential of AT2 Receptor Agonists. Frontiers in Pharmacology, 2017, 8, 564.	1.6	58
38	T Cell Determinants Incorporating Î²-Amino Acid Residues Are Protease Resistant and Remain Immunogenic In Vivo. Journal of Immunology, 2005, 175, 3810-3818.	0.4	56
39	High-performance liquid chromatography of amino acids, peptides and proteins. Journal of Chromatography A, 1985, 327, 115-138.	1.8	55
40	Role of helix 8 in G protein-coupled receptors based on structureâ€“function studies on the type 1 angiotensin receptor. Molecular and Cellular Endocrinology, 2009, 302, 118-127.	1.6	54
41	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
42	The plant defensin NaD1 introduces membrane disorder through a specific interaction with the lipid, phosphatidylinositol 4,5 bisphosphate. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1099-1109.	1.4	52
43	A Single Î²-Amino Acid Substitution to Angiotensin II Confers AT ₂ Receptor Selectivity and Vascular Function. Hypertension, 2011, 57, 570-576.	1.3	51
44	Structure and homogeneity of pseudo-physiological phospholipid bilayers and their deposition characteristics on carboxylic acid terminated self-assembled monolayers. Biomaterials, 2009, 30, 682-689.	5.7	50
45	A Synthetic Mirror Image of Kalata B1 Reveals that Cyclotide Activity Is Independent of a Protein Receptor. ChemBioChem, 2011, 12, 2456-2462.	1.3	49
46	Surface plasmon resonance for the analysis of Î²-amyloid interactions and fibril formation in alzheimerâ€™s disease research. Neurotoxicity Research, 2005, 7, 17-27.	1.3	48
47	The role of electrostatic interactions in the membrane binding of melittin. Journal of Molecular Recognition, 2011, 24, 108-118.	1.1	47
48	The membrane insertion of helical antimicrobial peptides from the N-terminus of Helicobacter pylori ribosomal protein L1. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 544-557.	1.4	45
49	Structural effects of the antimicrobial peptide maculatin 1.1 on supported lipid bilayers. European Biophysics Journal, 2013, 42, 47-59.	1.2	45
50	Surface plasmon resonance analysis of antimicrobial peptide-membrane interactions: affinity & mechanism of action. International Journal of Peptide Research and Therapeutics, 2003, 10, 475-485.	0.1	43
51	Electrostatic and Hydrophobic Forces Tether the Proximal Region of the Angiotensin II Receptor (AT1A) Carboxyl Terminus to Anionic Lipidsâ€. Biochemistry, 2002, 41, 7830-7840.	1.2	42
52	Development of a Î¼O-Conotoxin Analogue with Improved Lipid Membrane Interactions and Potency for the Analgesic Sodium Channel NaV1.8. Journal of Biological Chemistry, 2016, 291, 11829-11842.	1.6	37
53	Probing the Binding Behavior and Conformational States of Globular Proteins in Reversed-Phase High-Performance Liquid Chromatography. Analytical Chemistry, 1999, 71, 2440-2451.	3.2	36
54	New insights into the molecular mechanisms of biomembrane structural changes and interactions by optical biosensor technology. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1868-1885.	1.4	36

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55	Î²-Pro7Ang III is a novel highly selective angiotensin II type 2 receptor (AT2R) agonist, which acts as a vasodepressor agent via the AT2R in conscious spontaneously hypertensive rats. Clinical Science, 2015, 129, 505-513.	1.8	34
56	Novel Materials From the Supramolecular Self-Assembly of Short Helical Î²3-Peptide Foldamers. Frontiers in Chemistry, 2019, 7, 70.	1.8	34
57	Isolation and pharmacological characterization of a phospholipase A2 myotoxin from the venom of the Irian Jayan death adder (Acanthophis rugosus). British Journal of Pharmacology, 2003, 138, 333-342.	2.7	33
58	Influence of temperature on the retention behaviour of proteins in cation-exchange chromatography. Journal of Chromatography A, 1996, 729, 49-66.	1.8	31
59	Inhibitors of Metalloendopeptidase EC 3.4.24.15 and EC 3.4.24.16 Stabilized against Proteolysis by the Incorporation of Î²-Amino Acids. Biochemistry, 2002, 41, 10819-10826.	1.2	31
60	The Structure of H-2Kb and Kbm8 Complexed to a Herpes Simplex Virus Determinant: Evidence for a Conformational Switch That Governs T Cell Repertoire Selection and Viral Resistance. Journal of Immunology, 2004, 173, 402-409.	0.4	31
61	Migration and Differentiation of Neural Stem Cells Diverted From the Subventricular Zone by an Injectable Self-Assembling Î²-Peptide Hydrogel. Frontiers in Bioengineering and Biotechnology, 2019, 7, 315.	2.0	31
62	RP-HPLC Binding Domains of Proteins. Analytical Chemistry, 1998, 70, 5010-5018.	3.2	30
63	Comparison of the binding of Î±â€helical and Î²â€sheet peptides to a hydrophobic surface. Chemical Biology and Drug Design, 1998, 51, 401-412.	1.2	30
64	The Toxicity of Prion Protein Fragment PrP(106â^'126) is Not Mediated by Membrane Permeabilization as Shown by a M112W Substitution. Biochemistry, 2009, 48, 4198-4208.	1.2	30
65	Resonant recognition model and protein topography. Model studies with myoglobin, hemoglobin and lysozyme. FEBS Journal, 1991, 198, 113-119.	0.2	29
66	Orthogonal strategy for the synthesis of dual-functionalised Î²³-peptide based hydrogels. Chemical Communications, 2016, 52, 5844-5847.	2.2	29
67	Decorated self-assembling Î²³-tripeptide foldamers form cell adhesive scaffolds. Chemical Communications, 2016, 52, 4549-4552.	2.2	29
68	Exosome trapping and enrichment using a sound wave activated nano-sieve (SWANS). Lab on A Chip, 2020, 20, 3633-3643.	3.1	29
69	Synthesis of Stapled Î²3-Peptides through Ring-Closing Metathesis. Organic Letters, 2009, 11, 4438-4440.	2.4	28
70	Fast membrane association is a crucial factor in the peptide pepâ€1 translocation mechanism: A kinetic study followed by surface plasmon resonance. Biopolymers, 2010, 94, 314-322.	1.2	28
71	Î”â€Myrtoxinâ€Mp1a is a Helical Heterodimer from the Venom of the Jack Jumper Ant that has Antimicrobial, Membraneâ€Disrupting, and Nociceptive Activities. Angewandte Chemie - International Edition, 2017, 56, 8495-8499.	7.2	28
72	Identifying the Coiled-Coil Triple Helix Structure of Î²-Peptide Nanofibers at Atomic Resolution. ACS Nano, 2018, 12, 9101-9109.	7.3	28

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73	High-performance liquid chromatography of amino acids, peptides and proteins. Journal of Chromatography A, 1994, 660, 75-84.	1.8	26
74	The Interaction of Bioactive Peptides with an Immobilized Phosphatidylcholine Monolayer. Biophysical Journal, 1999, 77, 1428-1444.	0.2	26
75	The Asia Oceania Human Proteome Organisation Membrane Proteomics Initiative. Preparation and characterisation of the carbonateâ€washed membrane standard. Proteomics, 2010, 10, 4142-4148.	1.3	26
76	Characterization of Early Stage Intermediates in the Nucleation Phase of AÎ² Aggregation. Biochemistry, 2012, 51, 1070-1078.	1.2	26
77	Supramolecular self-assembly of 14-helical nanorods with tunable linear and dendritic hierarchical morphologies. New Journal of Chemistry, 2015, 39, 3280-3287.	1.4	26
78	Kinetic and conformational properties of a novel Tâ€cell antigen receptor transmembrane peptide in model membranes. Journal of Peptide Science, 2008, 14, 714-724.	0.8	25
79	Glycosaminoglycanâ€induced activation of the Î²â€secretase (BACE1) of Alzheimerâ€™s disease. Journal of Neurochemistry, 2010, 112, 1552-1561.	2.1	25
80	Surface plasmon resonance assay for chloramphenicol without surface regeneration. Analytical Biochemistry, 2009, 390, 97-99.	1.1	24
81	Structural Basis of Binding by Cyclic Nonphosphorylated Peptide Antagonists of Grb7 Implicated in Breast Cancer Progression. Journal of Molecular Biology, 2011, 412, 397-411.	2.0	24
82	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
83	An Active Site Inhibitor Induces Conformational Penalties for ACE2 Recognition by the Spike Protein of SARS-CoV-2. Journal of Physical Chemistry B, 2021, 125, 2533-2550.	1.2	24
84	Amino acid sequence controls the self-assembled superstructure morphology of N-acetylated tri-Î²³-peptides. Pure and Applied Chemistry, 2015, 87, 1021-1028.	0.9	23
85	HPLC of Peptides and Proteins: Basic Theory and Methodology. , 2004, 251, 3-8.		22
86	Isolation and characterization at cholinergic nicotinic receptors of a neurotoxin from the venom of the Acanthophis sp. Seram death adder. Biochemical Pharmacology, 2004, 68, 383-394.	2.0	22
87	Quantitative blood group typing using surface plasmon resonance. Biosensors and Bioelectronics, 2015, 73, 79-84.	5.3	21
88	Shortened Penetratin Cell-Penetrating Peptide Is Insufficient for Cytosolic Delivery of a Grb7 Targeting Peptide. ACS Omega, 2017, 2, 670-677.	1.6	21
89	Temperature-induced changes in the bandwidth behaviour of proteins separated with cation-exchange adsorbents. Journal of Chromatography A, 1996, 729, 67-79.	1.8	20
90	Reversed-Phase High-Performance Liquid Chromatography. , 2004, 251, 9-22.		20

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91	Combined Mass and Structural Kinetic Analysis of Multistate Antimicrobial Peptideâ€“Membrane Interactions. Analytical Chemistry, 2013, 85, 9296-9304.	3.2	20
92	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
93	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
94	Î²3-tripeptides act as sticky ends to self-assemble into a bioscaffold. APL Bioengineering, 2018, 2, 026104.	3.3	20
95	High-performance liquid chromatography of amino acids, peptides and proteins CXXXVIII. Adsorption of horse heart cytochrome c onto a tentacle-type cation exchanger. Journal of Chromatography A, 1995, 691, 263-271.	1.8	19
96	Evaluation of the Membrane-binding Properties of the Proximal Region of the Angiotensin II Receptor (AT1A) Carboxyl Terminus by Surface Plasmon Resonance. Analytical Sciences, 2005, 21, 171-174.	0.8	19
97	Lipid Membrane-Binding Properties of Tryptophan Analogues of Linear Amphipathic .BETA.-Sheet Cationic Antimicrobial Peptides Using Surface Plasmon Resonance. Biological and Pharmaceutical Bulletin, 2005, 28, 148-150.	0.6	19
98	Self-assembling injectable peptide hydrogels for emerging treatment of ischemic stroke. Journal of Materials Chemistry B, 2019, 7, 3927-3943.	2.9	19
99	Î²³-Tripeptides Coassemble into Fluorescent Hydrogels for Serial Monitoring in Vivo. ACS Biomaterials Science and Engineering, 2018, 4, 3843-3847.	2.6	18
100	Using Î²-Amino Acids and Î²-Peptide Templates to Create Bioactive Ligands and Biomaterials. Current Pharmaceutical Design, 2017, 23, 3772-3785.	0.9	18
101	Peptides Derived from the Transmembrane Domain of Bcl-2 Proteins as Potential Mitochondrial Priming Tools. ACS Chemical Biology, 2014, 9, 1799-1811.	1.6	17
102	Structural determinants for binding to angiotensin converting enzyme 2 (ACE2) and angiotensin receptors 1 and 2. Frontiers in Pharmacology, 2015, 6, 5.	1.6	17
103	The use of bioactive matrices in regenerative therapies for traumatic brain injury. Acta Biomaterialia, 2020, 102, 1-12.	4.1	17
104	Surface Plasmon Resonance Spectroscopy for Studying the Membrane Binding of Antimicrobial Peptides. Methods in Molecular Biology, 2010, 627, 213-223.	0.4	17
105	Gly6 of kalata B1 is critical for the selective binding to phosphatidylethanolamine membranes. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2354-2361.	1.4	16
106	Self-assembled nanomaterials based on beta (Î²³) tetrapeptides. Nanotechnology, 2016, 27, 135606.	1.3	16
107	The use of hydrogels for cell-based treatment of chronic kidney disease. Clinical Science, 2018, 132, 1977-1994.	1.8	16
108	Enhancement of glioblastoma multiforme therapy through a novel Quercetin-Losartan hybrid. Free Radical Biology and Medicine, 2020, 160, 391-402.	1.3	16

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109	Studies on the adsorption capacities of proteins with a tentacle-type ion exchanger and their relationship to the stoichiometric retention parameter Zc. Journal of Chromatography A, 1995, 711, 43-52.	1.8	15
110	The use of Î²-amino acids in the design of protease and peptidase inhibitors. International Journal of Peptide Research and Therapeutics, 2001, 8, 241-246.	0.1	15
111	A Mild Method for the Efficient [3,3]-Sigmatropic Rearrangement of N,O-Diacylhydroxylamines. Journal of Organic Chemistry, 2009, 74, 8001-8003.	1.7	15
112	Conformational stability studies of a stapled hexa-Î²3-peptide library. Organic and Biomolecular Chemistry, 2012, 10, 1802.	1.5	15
113	Renal functional effects of the highly selective AT2R agonist, Î²-Pro7 Ang III, in normotensive rats. Clinical Science, 2020, 134, 871-884.	1.8	15
114	Thionation of amides using a solid-supported P2S5 reagent under microwave irradiation. Tetrahedron Letters, 2011, 52, 5131-5131.	0.7	14
115	Use of SPR to Study the Interaction of G7-18NATE Peptide with the Grb7-SH2 Domain. International Journal of Peptide Research and Therapeutics, 2010, 16, 177-184.	0.9	13
116	Quantitative Detection of Weak D Antigen Variants in Blood Typing using SPR. Scientific Reports, 2017, 7, 1616.	1.6	13
117	Transition of Nano-Architectures Through Self-Assembly of Lipidated Î²3-Tripeptide Foldamers. Frontiers in Chemistry, 2020, 8, 217.	1.8	13
118	Tropane-based amino acids for peptide structure-function studies: Inhibitors of platelet aggregation. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 2699-2704.	1.0	12
119	A Study of Protein Electrochemistry on a Supported Membrane Electrode. International Journal of Peptide Research and Therapeutics, 2006, 12, 217-224.	0.9	12
120	Membrane interactions of antimicrobial Î²â€peptides: The role of amphipathicity versus secondary structure induction. Biopolymers, 2009, 92, 554-564.	1.2	12
121	Conformational stability of a type II'Î²â€turn motif in human growth hormone [6â€“13] peptide analogues at hydrophobic surfaces. Chemical Biology and Drug Design, 1997, 49, 394-403.	1.2	12
122	Helix 8 of the angiotensin- II type 1A receptor interacts with phosphatidylinositol phosphates and modulates membrane insertion. Scientific Reports, 2015, 5, 9972.	1.6	12
123	A versatile and rapid coating method via a combination of plasma polymerization and surfaceâ€initiated SETâ€LRP for the fabrication of lowâ€fouling surfaces. Journal of Polymer Science Part A, 2017, 55, 2527-2536.	2.5	12
124	Esterase-Mediated Sustained Release of Peptide-Based Therapeutics from a Self-Assembled Injectable Hydrogel. ACS Applied Materials & Interfaces, 2021, 13, 58279-58290.	4.0	11
125	Substrate analogues incorporating Î²â€amino acids: potential application for peptidase inhibition. FASEB Journal, 2001, 15, 1664-1666.	0.2	10
126	The impact of cell-penetrating peptides on membrane bilayer structure during binding and insertion. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1841-1849.	1.4	10

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127	The impact of antibacterial peptides on bacterial lipid membranes depends on stage of growth. Faraday Discussions, 2021, 232, 399-418.	1.6	10
128	Self-assembly of trifunctional tripeptides to form neural scaffolds. Journal of Materials Chemistry B, 2021, 9, 4475-4479.	2.9	10
129	Surface plasmon resonance analysis of antimicrobial peptideâ€“membrane interactions: affinity & mechanism of action. International Journal of Peptide Research and Therapeutics, 2003, 10, 475-485.	0.9	9
130	Effect of Heparin on APP Metabolism and AÎ² Production in Cortical Neurons. Neurodegenerative Diseases, 2010, 7, 187-189.	0.8	9
131	Single Î²3-amino acid substitutions to MOG peptides suppress the development of experimental autoimmune encephalomyelitis. Journal of Neuroimmunology, 2014, 277, 67-76.	1.1	9
132	Multi-Omic Analysis to Characterize Metabolic Adaptation of the E. coli Lipidome in Response to Environmental Stress. Metabolites, 2022, 12, 171.	1.3	9
133	Effects of Rationally Designed Physico-Chemical Variants of the Peptide PuroA on Biocidal Activity towards Bacterial and Mammalian Cells. International Journal of Molecular Sciences, 2020, 21, 8624.	1.8	8
134	Response to Comment on â€œInfluence of the Chain Length and Surface Density on the Conformation and Mobility ofn-Alkyl Ligands Chemically Immobilized onto a Silica Surfaceâ€• Analytical Chemistry, 1996, 68, 1974-1975.	3.2	7
135	Single Peptide Backbone Surrogate Mutations to Regulate Angiotensin GPCR Subtype Selectivity. Chemistry - A European Journal, 2020, 26, 10690-10694.	1.7	7
136	Biomaterial Strategies for Restorative Therapies in Parkinsonâ€™s Disease. ACS Chemical Neuroscience, 2021, 12, 4224-4235.	1.7	7
137	Optimisation of peptide-based cytotoxic T-cell determinants using non-natural amino acids. International Journal of Peptide Research and Therapeutics, 2003, 10, 561-569.	0.1	6
138	Unique Functional Materials Derived from Î²-Amino Acid Oligomers. Australian Journal of Chemistry, 2017, 70, 126.	0.5	6
139	Staphylococcus aureus entanglement in self-assembling Î²-peptide nanofibres decorated with vancomycin. Nanoscale Advances, 2021, 3, 2607-2616.	2.2	6
140	Hydrophobic and electrostatic forces control the retention of membrane peptides and proteins with an immobilised phosphatidic acid column. Journal of Chromatography A, 2007, 1156, 167-173.	1.8	5
141	Ligand-Supported Purification of the Urotensin-II Receptor. Molecular Pharmacology, 2010, 78, 639-647.	1.0	5
142	Î²â€amino acid substitution to investigate the recognition of angiotensin II (AngII) by angiotensin converting enzyme 2 (ACE2). Journal of Molecular Recognition, 2011, 24, 235-244.	1.1	5
143	Mutually Exclusive Interactions of Rifabutin with Spatially Distinct Mycobacterial Cell Envelope Membrane Layers Offer Insights into Membrane-Centric Therapy of Infectious Diseases. ACS Bio & Med Chem Au, 2022, 2, 395-408.	1.7	5
144	The use of Î²-amino acids in the design of protease and peptidase inhibitors. International Journal of Peptide Research and Therapeutics, 2001, 8, 241-246.	0.1	4

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145	The asymmetric imino-aldol approach to the enantioselective synthesis of Î²-amino acids. International Journal of Peptide Research and Therapeutics, 2003, 10, 597-604.	0.1	4
146	Trends in the development and application of functional biomembrane surfaces. Biotechnology Annual Review, 2006, 12, 85-136.	2.1	4
147	The synthesis of Fmoc-O-allyl Î²-serine. Tetrahedron: Asymmetry, 2008, 19, 2861-2863.	1.8	3
148	Dual Polarization Interferometry: An Optical Biosensor Which Allows New Insights into Peptide-Induced Changes in Biomembrane Structure. Australian Journal of Chemistry, 2011, 64, 844.	0.5	3
149	Duffy blood group (Fya & Fyb) analysis using surface plasmon resonance. Biomedical Microdevices, 2016, 18, 101.	1.4	3
150	The Effect of Charge on Melittin-Induced Changes in Membrane Structure and Morphology. Australian Journal of Chemistry, 2020, 73, 195.	0.5	3
151	A two-dimensional metallosupramolecular framework design based on coordination crosslinking of helical oligoamide nanorods. Materials Advances, 2020, 1, 1134-1141.	2.6	3
152	Interaction of amphipathic peptides with an immobilised model membrane. International Journal of Peptide Research and Therapeutics, 1999, 6, 371-380.	0.1	2
153	Examination of the Interaction between a Membrane Active Peptide and Artificial Bilayers by Dual Polarisation Interferometry. Bio-protocol, 2017, 7, e2087.	0.2	2
154	Interaction of amphipathic peptides with an immobilised model membrane. International Journal of Peptide Research and Therapeutics, 1999, 6, 371-380.	0.1	1
155	Role of AÎ² and the Î±7 nicotinic acetylcholine receptor in regulating synaptic plasticity in Alzheimer's disease. International Journal of Peptide Research and Therapeutics, 2003, 10, 401-404.	0.1	1
156	Optimisation of peptide-based cytotoxic T-cell determinants using. International Journal of Peptide Research and Therapeutics, 2003, 10, 561-569.	0.1	1
157	Surface Plasmon Resonance Spectroscopy: A New Lead in Studying the Membrane Binding of Amyloidogenic Transthyretin. Methods in Molecular Biology, 2011, 752, 215-228.	0.4	1
158	Î”â€Myrtoxinâ€Mp1a is a Helical Heterodimer from the Venom of the Jack Jumper Ant that has Antimicrobial, Membraneâ€Disrupting, and Nociceptive Activities. Angewandte Chemie, 2017, 129, 8615-8619.	1.6	1
159	Preparation and Characterization of Supported Lipid Bilayers for Biomolecular Interaction Studies by Dual Polarization Interferometry. Advances in Biomembranes and Lipid Self-Assembly, 2017, 25, 125-159.	0.3	1
160	A comment by Prof. Mibel Aguilarâ€”2018 recipient of the Australian Society for Biophysicsâ€™ McAulay-Hope Prize for Original Biophysics. Biophysical Reviews, 2019, 11, 271-272.	1.5	1
161	Using conformational constraints at position 6 of Angiotensin II to generate compounds with enhanced AT2R selectivity and proteolytic stability. Bioorganic and Medicinal Chemistry Letters, 2021, 43, 128086.	1.0	1
162	Peptidomimetic Modulators of BACE1. Australian Journal of Chemistry, 2020, 73, 366.	0.5	1

#	Article	IF	Citations
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