

# Stephen McClean

## List of Publications by Year in descending order

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66  
papers

1,944  
citations

218677

26  
h-index

265206

42  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2312  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rhamnolipid Biosurfactant Production by Strains of <i>Pseudomonas aeruginosa</i> Using Low-Cost Raw Materials. <i>Biotechnology Progress</i> , 2002, 18, 1277-1281.	2.6	249
2	Microbial rhamnolipid production: a critical re-evaluation of published data and suggested future publication criteria. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 3941-3951.	3.6	84
3	Determination of 1,4-benzodiazepines and their metabolites by capillary electrophoresis and high-performance liquid chromatography using ultraviolet and electrospray ionisation mass spectrometry. <i>Journal of Chromatography A</i> , 1999, 838, 273-291.	3.7	68
4	Purification and characterization of novel antimicrobial peptides from the skin secretion of <i>Hylarana guentheri</i> . <i>Peptides</i> , 2006, 27, 3077-3084.	2.4	57
5	Characterisation and determination of indole alkaloids in frog-skin secretions by electrospray ionisation ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 346-354.	1.5	53
6	Novel bradykinins and their precursor cDNAs from European yellow-bellied toad ( <i>Bombina variegata</i> ) skin. <i>FEBS Journal</i> , 2002, 269, 4693-4700.	0.2	52
7	Electrospray ionisation mass spectrometric characterisation of selected anti-psychotic drugs and their detection and determination in human hair samples by liquid chromatography tandem mass spectrometry. <i>Biomedical Applications</i> , 2000, 740, 141-157.	1.7	50
8	The characterisation of selected antidepressant drugs using electrospray ionisation with ion trap mass spectrometry and with quadrupole time-of-flight mass spectrometry and their determination by high-performance liquid chromatography/electrospray ionisation tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1637-1642.	1.5	48
9	Antimicrobial activity of antihypertensive food-derived peptides and selected alanine analogues. <i>Food Chemistry</i> , 2014, 146, 443-447.	8.2	48
10	A study of the electrospray ionisation of pharmacologically significant 1,4-benzodiazepines and their subsequent fragmentation using an ion-trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 2061-2069.	1.5	47
11	Identification and functional analysis of a novel bradykinin inhibitory peptide in the venoms of New World Crotalinae pit vipers. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1587-1592.	2.1	46
12	Lipopeptide biosurfactants from <i>Paenibacillus polymyxa</i> inhibit single and mixed species biofilms. <i>Biofouling</i> , 2012, 28, 1151-1166.	2.2	45
13	The identification and determination of selected 1,4-benzodiazepines by an optimised capillary electrophoresis - electrospray mass spectrometric method. <i>Electrophoresis</i> , 2000, 21, 1381-1389.	2.4	44
14	Degradation, insulin secretion, glucose-lowering and GIP additive actions of a palmitate-derivatised analogue of xenin-25. <i>Biochemical Pharmacology</i> , 2012, 84, 312-319.	4.4	43
15	A combined mass spectrometric and cDNA sequencing approach to the isolation and characterization of novel antimicrobial peptides from the skin secretions of <i>Phyllomedusa hypochondrialis azurea</i> . <i>Peptides</i> , 2007, 28, 1331-1343.	2.4	42
16	Bradykinins and their precursor cDNAs from the skin of the fire-bellied toad ( <i>Bombina orientalis</i> ). <i>Peptides</i> , 2002, 23, 1547-1555.	2.4	41
17	Effect of on-capillary large volume sample stacking on limits of detection in the capillary zone electrophoretic determination of selected drugs, dyes and metal chelates. <i>Journal of Chromatography A</i> , 1997, 772, 161-169.	3.7	40
18	Cloning of maximakinin precursor cDNAs from Chinese toad, <i>Bombina maxima</i> , venom. <i>Peptides</i> , 2003, 24, 853-861.	2.4	40

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19	Pachymedusa dancicolor tryptophyllin-1: structural characterization, pharmacological activity and cloning of precursor cDNA. <i>Regulatory Peptides</i> , 2004, 117, 25-32.	1.9	34
20	Amphibian Skin Secretomics: Application of Parallel Quadrupole Time-of-Flight Mass Spectrometry and Peptide Precursor cDNA Cloning to Rapidly Characterize the Skin Secretory Peptidome of <i>Phyllomedusa hypochondrialis</i> & <i>azurea</i> : Discovery of a Novel Peptide Family, the Hyposins. <i>Journal of Proteome Research</i> , 2007, 6, 3604-3613.	3.7	32
21	Making room for interactivity: using the cloud-based audience response system Nearpod to enhance engagement in lectures. <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	32
22	Differential pulse polarographic study of the degradation of H <sup>+</sup> /K <sup>+</sup> ATPase inhibitors SK&F 95601 and omeprazole in acidic media and the subsequent reactions with thiols. <i>Analytica Chimica Acta</i> , 1994, 292, 81-89.	5.4	31
23	Application of Liquid Chromatography-Tandem Mass Spectrometry To Determine Urinary Concentrations of Five Commonly Used Low-Calorie Sweeteners: A Novel Biomarker Approach for Assessing Recent Intakes?. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4516-4525.	5.2	31
24	Novel dual incretin agonist peptide with antidiabetic and neuroprotective potential. <i>Biochemical Pharmacology</i> , 2018, 155, 264-274.	4.4	31
25	Application of electrospray mass spectrometry in the detection and determination of Remazol textile dyes. <i>Journal of Chromatography A</i> , 1999, 854, 259-274.	3.7	29
26	Heuristic charge assignment for deconvolution of electrospray ionization mass spectra. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 429-436.	1.5	28
27	Quorum sensing as a potential target for increased production of rhamnolipid biosurfactant in <i>Burkholderia thailandensis</i> E264. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6505-6517.	3.6	28
28	Use of Large Volume Sample Stacking for Improving Limits of Detection in the Capillary Electrophoretic Determination of Selected Cations. <i>Analytical Communications</i> , 1997, 34, 9-11.	2.2	27
29	A critical evaluation of the application of capillary electrophoresis to the detection and determination of 1,4-benzodiazepine tranquilizers in formulations and body materials. <i>Electrophoresis</i> , 1998, 19, 2870-2882.	2.4	24
30	Study of the mass spectrometric behaviour of phthalocyanine and azo dyes using electrospray ionisation and matrix-assisted laser desorption/ionisation. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 2076-2084.	1.5	24
31	An electrospray ionisation tandem mass spectrometric investigation of selected psychoactive pharmaceuticals and its application in drug and metabolite profiling by liquid chromatography/electrospray ionisation tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2031-2038.	1.5	24
32	Guidelines for reporting the use of capillary electrophoresis in proteomics. <i>Nature Biotechnology</i> , 2010, 28, 654-655.	17.5	24
33	A family of antimicrobial and immunomodulatory peptides related to the frenatins from skin secretions of the Orinoco lime frog <i>Sphaenorhynchus lacteus</i> (Hylidae). <i>Peptides</i> , 2014, 56, 132-140.	2.4	24
34	Biological Activity and Antidiabetic Potential of C-Terminal Octapeptide Fragments of the Gut-Derived Hormone Xenin. <i>PLoS ONE</i> , 2016, 11, e0152818.	2.5	24
35	Bacterial biodegradation of phenol and 2,4-dichlorophenol. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 959-963.	3.2	23
36	Bradykinin-related peptides from <i>Phyllomedusa hypochondrialis</i> azurea: mass spectrometric structural characterisation and cloning of precursor cDNAs. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3780-3788.	1.5	23

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37	Regulation of CYP3A4 and CYP3A5 expression and modulation of $\alpha$ -intra-craine metabolism of androgens in prostate cells by liganded vitamin D receptor. <i>Molecular and Cellular Endocrinology</i> , 2012, 364, 54-64.	3.2	23
38	Trypsin and chymotrypsin inhibitor peptides from the venom of Chinese <i>Daboia russellii siamensis</i> . <i>Toxicon</i> , 2013, 63, 154-164.	1.6	22
39	A novel chemically modified analogue of xenin-25 exhibits improved glucose-lowering and insulin-releasing properties. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 757-764.	2.4	22
40	Study of the capillary zone electrophoretic behaviour of selected drugs, and its comparison with other analytical techniques for their formulation assay. <i>Journal of Chromatography A</i> , 1996, 735, 237-247.	3.7	21
41	Histamine-releasing and antimicrobial peptides from the skin secretions of the Dusky Gopher frog, <i>Rana sevosia</i> . <i>Peptides</i> , 2006, 27, 1313-1319.	2.4	21
42	Adenosine in the venoms from viperinae snakes of the genus <i>Bitis</i> : Identification and quantitation using LC/MS and CE/MS. <i>Biochemical and Biophysical Research Communications</i> , 2005, 333, 88-94.	2.1	20
43	Fatty acid synthesis pathway provides lipid precursors for rhamnolipid biosynthesis in <i>Burkholderia thailandensis</i> E264. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6163-6174.	3.6	20
44	Therapeutic Potential of Peptides Derived from Animal Venoms: Current Views and Emerging Drugs for Diabetes. <i>Clinical Medicine Insights: Endocrinology and Diabetes</i> , 2021, 14, 117955142110060.	1.9	17
45	Study of the chelation of boron with Azomethine H by differential pulse polarography, liquid chromatography and capillary electrophoresis and its analytical applications. <i>Analytica Chimica Acta</i> , 1995, 317, 295-301.	5.4	16
46	Peptide Tyrosine Arginine, a potent immunomodulatory peptide isolated and structurally characterized from the skin secretions of the dusky gopher frog, <i>Rana sevosia</i> . <i>Peptides</i> , 2005, 26, 737-743.	2.4	16
47	The characterisation of synthetic and natural-product pharmaceuticals by electrospray ionisation-mass spectrometry (ESI-MS) and liquid chromatography (LC)-ESI-MS. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 572-582.	11.4	16
48	Nutrition Education and Community Pharmacy: A First Exploration of Current Attitudes and Practices in Northern Ireland. <i>Pharmacy (Basel, Switzerland)</i> , 2019, 7, 27.	1.6	16
49	Capillary electrophoretic determination of trace metals in hair samples and its comparison with high performance liquid chromatography and atomic absorption spectrometry techniques. <i>Electrophoresis</i> , 1998, 19, 11-18.	2.4	15
50	Bradykinin-related peptides, including a novel structural variant, (Val1)-bradykinin, from the skin secretion of Guenther's frog, <i>Hylarana guentheri</i> and their molecular precursors. <i>Peptides</i> , 2007, 28, 781-789.	2.4	15
51	A study of the analytical behaviour of selected psycho-active drugs using liquid chromatography, ion trap mass spectrometry, gas chromatography and polarography and the construction of an appropriate database for drug characterisation. <i>Talanta</i> , 2007, 72, 755-761.	5.5	14
52	Isolation and characterisation of insulin-releasing compounds from <i>Crotalus adamanteus</i> , <i>Crotalus vegrandis</i> and <i>Bitis nasicornis</i> venom. <i>Toxicon</i> , 2015, 101, 48-54.	1.6	13
53	Reflections on <a href="https://www.youtube.com">YouTube.com</a> : An Online Video-Sharing Platform To Engage Students with Chemistry Laboratory Classes. <i>Journal of Chemical Education</i> , 2016, 93, 1863-1870.	2.3	13
54	The enigma of double-stranded RNA (dsRNA) associated with mushroom virus X (MVX). <i>Current Issues in Molecular Biology</i> , 2007, 9, 103-21.	2.4	13

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55	Mass spectrometric characterisation and quantitation of selected low molecular mass compounds from the venom of <i>Haplopelma lividum</i> (Theraphosidae). <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1747-1755.	1.5	10
56	Purification, characterization and molecular cloning of chymotrypsin inhibitor peptides from the venom of Burmese <i>Daboia russelii siamensis</i> . <i>Peptides</i> , 2013, 43, 126-132.	2.4	8
57	Text Messaging for Student Communication and Voting. <i>Bioscience Education</i> , 2010, 16, 1-12.	0.4	5
58	Reduced toxicity of lipo-oligosaccharide from a <i>phoP</i> mutant of <i>Neisseria meningitidis</i> : an <i>in vitro</i> demonstration. <i>Journal of Endotoxin Research</i> , 2006, 12, 39-46.	2.5	4
59	Characterization of Synthetic and Natural Product Pharmaceuticals by Functional Group Analysis using Electrospray Ionization-Ion Trap Mass Spectrometry: A Mini-Review. <i>Analytical Letters</i> , 2015, 48, 2661-2675.	1.8	4
60	Ultraviolet spectrophotometric, solvent extraction, high-performance liquid chromatographic and polarographic study of the H <sup>+</sup> /K <sup>+</sup> adenosine triphosphatase inhibitor (SK&F 95601) and its acid-catalysed degradation products. <i>Analyst</i> , 1993, 118, 511-516.	3.5	3
61	The need for positive pedagogy in multi-disciplinary STEM courses in higher education: an opinion piece. <i>Higher Education Pedagogies</i> , 2020, 5, 324-326.	3.5	2
62	A Computational Approach for Peptidomic Analysis in Taxonomic Study of Amphibian Species. <i>IEEE Transactions on Nanobioscience</i> , 2005, 4, 241-247.	3.3	1
63	Making Small Talk "Audio MP3 Files Made More Portable. <i>Bioscience Education</i> , 2008, 12, 1-2.	0.4	1
64	Excel Yourself with Personalised Email Messages. <i>Bioscience Education</i> , 2008, 12, 1-4.	0.4	1
65	Isolation and Characterisation of Insulin-Releasing Compounds from <i>Pseudechis australis</i> and <i>Pseudechis butleri</i> Venom. <i>International Journal of Peptide Research and Therapeutics</i> , 2016, 22, 211-218.	1.9	1
66	Peptidomic Pattern Analysis and Taxonomy of Amphibian Species. <i>Lecture Notes in Computer Science</i> , 2004, , 498-503.	1.3	1