Glenn F King

List of Publications by Year
in descending order

303 papers	16,783 citations	14655 66 h-index	24258 110 g-index
314 all docs	314 docs citations	314 times ranked	11229 citing authors

#	Article	IF	Citations
1	Trends in peptide drug discovery. Nature Reviews Drug Discovery, 2021, 20, 309-325.	46.4	792
2	The Toxicogenomic Multiverse: Convergent Recruitment of Proteins Into Animal Venoms. Annual Review of Genomics and Human Genetics, 2009, 10, 483-511.	6.2	683
3	Venoms as a platform for human drugs: translating toxins into therapeutics. Expert Opinion on Biological Therapy, 2011, 11, 1469-1484.	3.1	433
4	Spider-Venom Peptides: Structure, Pharmacology, and Potential for Control of Insect Pests. Annual Review of Entomology, 2013, 58, 475-496.	11.8	339
5	A rational nomenclature for naming peptide toxins from spiders and other venomous animals. Toxicon, 2008, 52, 264-276.	1.6	276
6	Spider-Venom Peptides as Therapeutics. Toxins, 2010, 2, 2851-2871.	3.4	251
7	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. Nature, 2016, 534, 494-499.	27.8	239
8	Nonlinear partial differential equations and applications: Membrane localization of MinD is mediated by a C-terminal motif that is conserved across eubacteria, archaea, and chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15693-15698.	7.1	218
9	Spider-venom peptides that target voltage-gated sodium channels: Pharmacological tools and potential therapeutic leads. Toxicon, 2012, 60, 478-491.	1.6	202
10	Venom landscapes: Mining the complexity of spider venoms via a combined cDNA and mass spectrometric approach. Toxicon, 2006, 47, 650-663.	1.6	200
11	Structural basis for the modulation of voltage-gated sodium channels by animal toxins. Science, 2018, 362, .	12.6	200
12	Discovery and characterization of a family of insecticidal neurotoxins with a rare vicinal disulfide bridge. Nature Structural Biology, 2000, 7, 505-513.	9.7	194
13	Spider-Venom Peptides as Bioinsecticides. Toxins, 2012, 4, 191-227.	3.4	190
14	Were arachnids the first to use combinatorial peptide libraries?. Peptides, 2005, 26, 131-139.	2.4	189
15	Potent neuroprotection after stroke afforded by a double-knot spider-venom peptide that inhibits acid-sensing ion channel 1a. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3750-3755.	7.1	180
16	The structure of a novel insecticidal neurotoxin, Ï‰-atracotoxin-HV1, from the venom of an Australian funnel web spider. Nature Structural Biology, 1997, 4, 559-566.	9.7	172
17	Venomics: a new paradigm for natural products-based drug discovery. Amino Acids, 2011, 40, 15-28.	2.7	172
18	Venomics as a drug discovery platform. Expert Review of Proteomics, 2009, 6, 221-224.	3.0	167

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19	Discovery of a selective Na _V 1.7 inhibitor from centipede venom with analgesic efficacy exceeding morphine in rodent pain models. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17534-17539.	7.1	164
20	ArachnoServer 2.0, an updated online resource for spider toxin sequences and structures. Nucleic Acids Research, 2011, 39, D653-D657.	14.5	159
21	The MinD Membrane Targeting Sequence Is a Transplantable Lipid-binding Helix. Journal of Biological Chemistry, 2003, 278, 40050-40056.	3.4	146
22	The venom optimization hypothesis revisited. Toxicon, 2013, 63, 120-128.	1.6	142
23	Macromolecular NMR spectroscopy for the nonâ€spectroscopist. FEBS Journal, 2011, 278, 687-703.	4.7	140
24	Production of Recombinant Disulfide-Rich Venom Peptides for Structural and Functional Analysis via Expression in the Periplasm of E. coli. PLoS ONE, 2013, 8, e63865.	2.5	140
25	From Foe to Friend: Using Animal Toxins to Investigate Ion Channel Function. Journal of Molecular Biology, 2015, 427, 158-175.	4.2	138
26	Widespread convergence in toxin resistance by predictable molecular evolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11911-11916.	7.1	130
27	Mutations in the voltage-gated potassium channel gene KCNH1 cause Temple-Baraitser syndrome and epilepsy. Nature Genetics, 2015, 47, 73-77.	21.4	130
28	Tandem use of selective insecticides and natural enemies for effective, reduced-risk pest management. Biological Control, 2010, 52, 208-215.	3.0	126
29	Australian funnel-web spiders: master insecticide chemists. Toxicon, 2004, 43, 601-618.	1.6	125
30	Selenoether oxytocin analogues have analgesic properties in a mouse model of chronic abdominal pain. Nature Communications, 2014, 5, 3165.	12.8	122
31	Pharmacological characterisation of the highly NaV1.7 selective spider venom peptide Pn3a. Scientific Reports, 2017, 7, 40883.	3.3	120
32	The structure of versutoxin (Î´-atracotoxin-Hv1) provides insights into the binding of site 3 neurotoxins to the voltage-gated sodium channel. Structure, 1997, 5, 1525-1535.	3.3	115
33	Intraspecific venom variation in the medically significant Southern Pacific Rattlesnake (Crotalus) Tj ETQq1 1 0.784314 rgBT /Overlock 99, 68-83.	2.4	114
34	Structure and Mechanism of Action of Sda, an Inhibitor of the Histidine Kinases that Regulate Initiation of Sporulation in Bacillus subtilis. Molecular Cell, 2004, 13, 689-701.	9.7	110
35	On the venom system of centipedes (Chilopoda), a neglected group of venomous animals. Toxicon, 2011, 57, 512-524.	1.6	110
36	The insecticidal potential of venom peptides. Cellular and Molecular Life Sciences, 2013, 70, 3665-3693.	5.4	110

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37	Chemical Punch Packed in Venoms Makes Centipedes Excellent Predators. Molecular and Cellular Proteomics, 2012, 11, 640-650.	3.8	107
38	Division site placement in E.coli: mutations that prevent formation of the MinE ring lead to loss of the normal midcell arrest of growth of polar MinD membrane domains. EMBO Journal, 2002, 21, 3347-3357.	7.8	106
39	Selective Na _V 1.1 activation rescues Dravet syndrome mice from seizures and premature death. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8077-E8085.	7.1	105
40	Clawing through Evolution: Toxin Diversification and Convergence in the Ancient Lineage Chilopoda (Centipedes). Molecular Biology and Evolution, 2014, 31, 2124-2148.	8.9	100
41	Phox homology band 4.1/ezrin/radixin/moesin-like proteins function as molecular scaffolds that interact with cargo receptors and Ras GTPases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7763-7768.	7.1	99
42	The role of auxiliary oxidants in maintaining redox balance during phototrophic growth of Rhodobacter capsulatus on propionate or butyrate. Archives of Microbiology, 1988, 150, 131-137.	2.2	98
43	Animal toxins â€" Natureâ€™s evolutionary-refined toolkit for basic research and drug discovery. Biochemical Pharmacology, 2020, 181, 114096.	4.4	97
44	Unique scorpion toxin with a putative ancestral fold provides insight into evolution of the inhibitor cystine knot motif. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10478-10483.	7.1	96
45	Peptide toxins that selectively target insect Na_Vand Ca_Vchannels. Channels, 2008, 2, 100-116.	2.8	95
46	High Resolution NMR Solution Structure of the Leucine Zipper Domain of the c-Jun Homodimer. Journal of Biological Chemistry, 1996, 271, 13663-13667.	3.4	93
47	The Cystine Knot Is Responsible for the Exceptional Stability of the Insecticidal Spider Toxin ï‰-Hexatoxin-Hv1a. Toxins, 2015, 7, 4366-4380.	3.4	86
48	ArachnoServer 3.0: an online resource for automated discovery, analysis and annotation of spider toxins. Bioinformatics, 2018, 34, 1074-1076.	4.1	86
49	A Dynamic Pharmacophore Drives the Interaction between Psalmotoxin-1 and the Putative Drug Target Acid-Sensing Ion Channel 1a. Molecular Pharmacology, 2011, 80, 796-808.	2.3	85
50	Modulation of insect Cav channels by peptidic spider toxins. Toxicon, 2007, 49, 513-530.	1.6	84
51	Centipede Venom: Recent Discoveries and Current State of Knowledge. Toxins, 2015, 7, 679-704.	3.4	84
52	Key Residues Characteristic of GATA N-fingers Are Recognized By FOG. Journal of Biological Chemistry, 1998, 273, 33595-33603.	3.4	83
53	Differential Evolution and Neofunctionalization of Snake Venom Metalloprotease Domains. Molecular and Cellular Proteomics, 2013, 12, 651-663.	3.8	83
54	Mapping the Phosphoinositide-Binding Site on Chick Cofilin Explains How PIP2 Regulates the Cofilin-Actin Interaction. Molecular Cell, 2006, 24, 511-522.	9.7	82

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55	The tale of a resting gland: Transcriptome of a replete venom gland from the scorpion Hottentotta judaicus. Toxicon, 2011, 57, 695-703.	1.6	82
56	Spider venomics: implications for drug discovery. Future Medicinal Chemistry, 2014, 6, 1699-1714.	2.3	81
57	Venom peptides as therapeutics: advances, challenges and the future of venom-peptide discovery. Expert Review of Proteomics, 2017, 14, 931-939.	3.0	81
58	Structure-function studies of omega-atracotoxin, a potent antagonist of insect voltage-gated calcium channels. FEBS Journal, 1999, 264, 488-494.	0.2	79
59	Discovery and Structure of a Potent and Highly Specific Blocker of Insect Calcium Channels. Journal of Biological Chemistry, 2001, 276, 40306-40312.	3.4	79
60	The Nâ€“Terminal Tail of hERG Contains an Amphipathic Î±â€“Helix That Regulates Channel Deactivation. PLoS ONE, 2011, 6, e16191.	2.5	79
61	The Structure of the KinA-Sda Complex Suggests an Allosteric Mechanism of Histidine Kinase Inhibition. Journal of Molecular Biology, 2007, 368, 407-420.	4.2	77
62	Toxin structures as evolutionary tools: Using conserved 3D folds to study the evolution of rapidly evolving peptides. BioEssays, 2016, 38, 539-548.	2.5	76
63	Structural basis for the topological specificity function of MinE. Nature Structural Biology, 2000, 7, 1013-1017.	9.7	75
64	Nuclear Magnetic Resonance Characterization of the Jun Leucine Zipper Domain: Unusual Properties of Coiled-Coil Interfacial Polar Residues. Biochemistry, 1995, 34, 6164-6174.	2.5	74
65	Seven novel modulators of the analgesic target <scp>Na_V</scp>1.7 uncovered using a highâ€throughput venomâ€based discovery approach. British Journal of Pharmacology, 2015, 172, 2445-2458.	5.4	74
66	Unravelling the complex venom landscapes of lethal Australian funnel-web spiders (Hexathelidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.4	73
67	No Gain, No Pain: Na_V1.7 as an Analgesic Target. ACS Chemical Neuroscience, 2014, 5, 749-751.	3.5	73
68	Identification and Characterization of ProTx-III [<i>Î¼</i>-TRTX-Tp1a], a New Voltage-Gated Sodium Channel Inhibitor from Venom of the Tarantula <i>Thrixopelma pruriens</i>. Molecular Pharmacology, 2015, 88, 291-303.	2.3	72
69	A Cell-Penetrating Scorpion Toxin Enables Mode-Specific Modulation of TRPA1 and Pain. Cell, 2019, 178, 1362-1374.e16.	28.9	72
70	Venoms to the rescue. Science, 2018, 361, 842-844.	12.6	71
71	A comprehensive portrait of the venom of the giant red bull ant, <i>Myrmecia gulosa</i> , reveals a hyperdiverse hymenopteran toxin gene family. Science Advances, 2018, 4, eaau4640.	10.3	69
72	The structural basis for autonomous dimerization of the pre-T-cell antigen receptor. Nature, 2010, 467, 844-848.	27.8	68

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73	A Proteomics and Transcriptomics Investigation of the Venom from the Barychelid Spider Trittame loki (Brush-Foot Trapdoor). Toxins, 2013, 5, 2488-2503.	3.4	68
74	The assassin bug Pristhesancus plagipennis produces two distinct venoms in separate gland lumens. Nature Communications, 2018, 9, 755.	12.8	67
75	Entomo-venomics: The evolution, biology and biochemistry of insect venoms. Toxicon, 2018, 154, 15-27.	1.6	67
76	Functional Significance of the Î²-Hairpin in the Insecticidal Neurotoxin Ï‰-Atracotoxin-Hv1a. Journal of Biological Chemistry, 2001, 276, 26568-26576.	3.4	66
77	Toxin delivery by the coat protein of an aphid-vectored plant virus provides plant resistance to aphids. Nature Biotechnology, 2014, 32, 102-105.	17.5	66
78	Chemical Synthesis, 3D Structure, and ASIC Binding Site of the Toxin Mambalginâ€2. Angewandte Chemie - International Edition, 2014, 53, 1017-1020.	13.8	66
79	Weaponization of a Hormone: Convergent Recruitment of Hyperglycemic Hormone into the Venom of Arthropod Predators. Structure, 2015, 23, 1283-1292.	3.3	66
80	Revisiting venom of the sea anemone Stichodactyla haddoni : Omics techniques reveal the complete toxin arsenal of a well-studied sea anemone genus. Journal of Proteomics, 2017, 166, 83-92.	2.4	64
81	The Ï‰-atracotoxins: Selective blockers of insect M-LVA and HVA calcium channels. Biochemical Pharmacology, 2007, 74, 623-638.	4.4	63
82	Direct Visualization of Disulfide Bonds through Diselenide Proxies Using ⁷⁷Se NMR Spectroscopy. Angewandte Chemie - International Edition, 2009, 48, 9312-9314.	13.8	63
83	A distinct sodium channel voltage-sensor locus determines insect selectivity of the spider toxin Dc1a. Nature Communications, 2014, 5, 4350.	12.8	63
84	Molecular Phylogeny and Evolution of the Proteins Encoded by Coleoid (Cuttlefish, Octopus, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	62
85	Venoms of Heteropteran Insects: A Treasure Trove of Diverse Pharmacological Toolkits. Toxins, 2016, 8, 43.	3.4	62
86	Interaction of Tarantula Venom Peptide ProTx-II with Lipid Membranes Is a Prerequisite for Its Inhibition of Human Voltage-gated Sodium Channel NaV1.7. Journal of Biological Chemistry, 2016, 291, 17049-17065.	3.4	62
87	Scanning Mutagenesis of Ï‰-Atracotoxin-Hv1a Reveals a Spatially Restricted Epitope That Confers Selective Activity against Insect Calcium Channels. Journal of Biological Chemistry, 2004, 279, 44133-44140.	3.4	61
88	Dracula's children: Molecular evolution of vampire bat venom. Journal of Proteomics, 2013, 89, 95-111.	2.4	61
89	Scanning Mutagenesis of a Janus-faced Atracotoxin Reveals a Bipartite Surface Patch That Is Essential for Neurotoxic Function. Journal of Biological Chemistry, 2002, 277, 22806-22813.	3.4	59
90	Development of a rational nomenclature for naming peptide and protein toxins from sea anemones. Toxicon, 2012, 60, 539-550.	1.6	59

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91	Tying pest insects in knots: the deployment of spiderâ€venomâ€derived knottins as bioinsecticides. Pest Management Science, 2019, 75, 2437-2445.	3.4	59
92	Structural venomics reveals evolution of a complex venom by duplication and diversification of an ancient peptide-encoding gene. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11399-11408.	7.1	59
93	Mapping the MinE Site Involved in Interaction with the MinD Division Site Selection Protein of Escherichia coli. Journal of Bacteriology, 2003, 185, 4948-4955.	2.2	58
94	Positioning of the MinE binding site on the MinD surface suggests a plausible mechanism for activation of the Escherichia coli MinD ATPase during division site selection. Molecular Microbiology, 2004, 54, 99-108.	2.5	58
95	ArachnoServer: a database of protein toxins from spiders. BMC Genomics, 2009, 10, 375.	2.8	58
96	Solution structure of a defensin-like peptide from platypus venom. Biochemical Journal, 1999, 341, 785-794.	3.7	57
97	A non-uniformly sampled 4D HCC(CO)NH-TOCSY experiment processed using maximum entropy for rapid protein sidechain assignment. Journal of Magnetic Resonance, 2010, 204, 160-164.	2.1	57
98	Fusion to Snowdrop Lectin Magnifies the Oral Activity of Insecticidal Ï‰-Hexatoxin-Hv1a Peptide by Enabling Its Delivery to the Central Nervous System. PLoS ONE, 2012, 7, e39389.	2.5	57
99	Isolation and pharmacological characterisation of Î´-atracotoxin-Hv1b, a vertebrate-selective sodium channel toxin. FEBS Letters, 2000, 470, 293-299.	2.8	56
100	STRUCTURE AND FUNCTION OF INSECTICIDAL NEUROTOXINS FROM AUSTRALIAN FUNNEL-WEB SPIDERS. Toxin Reviews, 2002, 21, 361-389.	1.5	56
101	NMR methods for determining disulfide-bond connectivities. Toxicon, 2010, 56, 849-854.	1.6	56
102	A Tarantula-Venom Peptide Antagonizes the TRPA1 Nociceptor Ion Channel by Binding to the S1â€“S4 Gating Domain. Current Biology, 2014, 24, 473-483.	3.9	56
103	Production and packaging of a biological arsenal: Evolution of centipede venoms under morphological constraint. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4026-4031.	7.1	56
104	Molecular Evolution of Vertebrate Neurotrophins: Co-Option of the Highly Conserved Nerve Growth Factor Gene into the Advanced Snake Venom Arsenalf. PLoS ONE, 2013, 8, e81827.	2.5	56
105	Polar Explorers. Cell, 2001, 106, 13-16.	28.9	55
106	PcTx1 affords neuroprotection in a conscious model of stroke in hypertensive rats via selective inhibition of ASIC1a. Neuropharmacology, 2015, 99, 650-657.	4.1	55
107	Isolation of an Orally Active Insecticidal Toxin from the Venom of an Australian Tarantula. PLoS ONE, 2013, 8, e73136.	2.5	55
108	Differential hydrolysis of erythrocyte and mitochondrial membrane phospholipids by two phospholipase A2 isoenzymes (NK-PLA2-I and NK-PLA2-II) from the venom of the Indian monocled cobra Naja kaouthia. Archives of Biochemistry and Biophysics, 2004, 425, 1-13.	3.0	54

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109	Sea Anemone Toxins: A Structural Overview. Marine Drugs, 2019, 17, 325.	4.6	54
110	Macromolecular NMR spectroscopy for the nonâ€spectroscopist: beyond macromolecular solution structure determination. FEBS Journal, 2011, 278, 704-715.	4.7	53
111	Melt With This Kiss: Paralyzing and Liquefying Venom of The Assassin Bug Pristhesancus plagipennis (Hemiptera: Reduviidae). Molecular and Cellular Proteomics, 2017, 16, 552-566.	3.8	53
112	Backbone Dynamics of the c-Jun Leucine Zipper:Â15N NMR Relaxation Studiesâ€. Biochemistry, 1996, 35, 4867-4877.	2.5	52
113	Squeezers and Leaf-cutters: Differential Diversification and Degeneration of the Venom System in Toxicoferan Reptiles. Molecular and Cellular Proteomics, 2013, 12, 1881-1899.	3.8	52
114	Cyclization of Peptides by using Selenolanthionine Bridges. Angewandte Chemie - International Edition, 2012, 51, 10298-10302.	13.8	51
115	The solution structure of the N-terminal zinc finger of GATA-1 reveals a specific binding face for the transcriptional co-factor FOG. Journal of Biomolecular NMR, 1999, 13, 249-262.	2.8	50
116	Diversification of a single ancestral gene into a successful toxin superfamily in highly venomous Australian funnel-web spiders. BMC Genomics, 2014, 15, 177.	2.8	49
117	Involvement of the N-finger in the Self-association of GATA-1. Journal of Biological Chemistry, 1998, 273, 30560-30567.	3.4	48
118	A process of convergent amplification and tissueâ€specific expression dominates the evolution of toxin and toxinâ€like genes in sea anemones. Molecular Ecology, 2019, 28, 2272-2289.	3.9	48
119	Isolation of a funnel-web spider polypeptide with homology to mamba intestinal toxin 1 and the embryonic head inducer Dickkopf-1. Toxicon, 2000, 38, 429-442.	1.6	46
120	Modulatory features of the novel spider toxin Î¼â€TRTXâ€Df1a isolated from the venom of the spider <i>Davus fasciatus</i>. British Journal of Pharmacology, 2017, 174, 2528-2544.	5.4	46
121	High resolution 1 H NMR study of the solution structure of the S4 segment of the sodium channel protein. FEBS Letters, 1989, 257, 113-117.	2.8	45
122	Solution structure of endothelin-3 determined using NMR spectroscopy. Biochemistry, 1992, 31, 5640-5645.	2.5	45
123	Regulation of RhoGEF Activity by Intramolecular and Intermolecular SH3 Domain Interactions. Journal of Biological Chemistry, 2006, 281, 18774-18786.	3.4	45
124	Siteâ€Specific p<i>K</i>_a Determination of Selenocysteine Residues in Selenovasopressin by Using ⁷⁷Se NMR Spectroscopy. Angewandte Chemie - International Edition, 2011, 50, 11952-11955.	13.8	44
125	Molecular basis of the interaction between gating modifier spider toxins and the voltage sensor of voltage-gated ion channels. Scientific Reports, 2016, 6, 34333.	3.3	44
126	The relationship between hetero-oligomer formation and function of the topological specificity domain of theEscherichia coliMinE protein. Molecular Microbiology, 1998, 30, 265-273.	2.5	43

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127	Construction of a Hypervirulent and Specific Mycoinsecticide for Locust Control. Scientific Reports, 2014, 4, 7345.	3.3	43
128	The Bacillus subtilis cell division proteins FtsL and DivIC are intrinsically unstable and do not interact with one another in the absence of other septasomal components. Molecular Microbiology, 2002, 44, 663-674.	2.5	42
129	Orally active acaricidal peptide toxins from spider venom. Toxicon, 2006, 47, 182-187.	1.6	42
130	Chemical synthesis and folding of APETx2, a potent and selective inhibitor of acid sensing ion channel 3. Toxicon, 2009, 54, 56-61.	1.6	42
131	Functional Expression in Escherichia coli of the Disulfide-Rich Sea Anemone Peptide APETx2, a Potent Blocker of Acid-Sensing Ion Channel 3. Marine Drugs, 2012, 10, 1605-1618.	4.6	41
132	The dimerization and topological specificity functions of MinE reside in a structurally autonomous C-terminal domain. Molecular Microbiology, 1999, 31, 1161-1169.	2.5	40
133	Understanding the Molecular Basis of Toxin Promiscuity: The Analgesic Sea Anemone Peptide APETx2 Interacts with Acid-Sensing Ion Channel 3 and hERG Channels via Overlapping Pharmacophores. Journal of Medicinal Chemistry, 2014, 57, 9195-9203.	6.4	40
134	Therapeutic Inhibition of Acid-Sensing Ion Channel 1a Recovers Heart Function After Ischemiaâ€"Reperfusion Injury. Circulation, 2021, 144, 947-960.	1.6	40
135	Spectroscopic identification of a dinuclear metal centre in manganese(II)-activated aminopeptidase P from Escherichia coli: implications for human prolidase. Journal of Biological Inorganic Chemistry, 1998, 3, 470-483.	2.6	39
136	Role of Interfacial Hydrophobic Residues in the Stabilization of the Leucine Zipper Structures of the Transcription Factors c-Fos and c-Jun. Journal of Biological Chemistry, 2002, 277, 23-31.	3.4	39
137	Proteomics and Deep Sequencing Comparison of Seasonally Active Venom Glands in the Platypus Reveals Novel Venom Peptides and Distinct Expression Profiles. Molecular and Cellular Proteomics, 2012, 11, 1354-1364.	3.8	39
138	Inhibition of acidâ€sensing ion channels by diminazene and APETx2 evoke partial and highly variable antihyperalgesia in a rat model of inflammatory pain. British Journal of Pharmacology, 2018, 175, 2204-2218.	5.4	39
139	Dipteran toxicity assays for determining the oral insecticidal activity of venoms and toxins. Toxicon, 2018, 150, 297-303.	1.6	39
140	Calculation of symmetric multimer structures from NMR data using a priori knowledge of the monomer structure, co-monomer restraints, and interface mapping: The case of leucine zippers. Journal of Biomolecular NMR, 1996, 8, 193-206.	2.8	38
141	The Janusâ€faced atracotoxins are specific blockers of invertebrate K_{Ca} channels. FEBS Journal, 2008, 275, 4045-4059.	4.7	38
142	Cloning and activity of a novel Î±-latrotoxin from red-back spider venom. Biochemical Pharmacology, 2012, 83, 170-183.	4.4	38
143	Gomesin inhibits melanoma growth by manipulating key signaling cascades that control cell death and proliferation. Scientific Reports, 2018, 8, 11519.	3.3	37
144	Direct NMR evidence that prolidase is specific for the trans isomer of imidodipeptide substrates. Biochemistry, 1986, 25, 1054-1062.	2.5	36

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145	Multifunctional warheads: Diversification of the toxin arsenal of centipedes via novel multidomain transcripts. Journal of Proteomics, 2014, 102, 1-10.	2.4	36
146	Molecular dynamics and functional studies define a hot spot of crystal contacts essential for PcTx1 inhibition of acidâ€sensing ion channel 1a. British Journal of Pharmacology, 2015, 172, 4985-4995.	5.4	35
147	Gating modifier toxins isolated from spider venom: Modulation of voltage-gated sodium channels and the role of lipid membranes. Journal of Biological Chemistry, 2018, 293, 9041-9052.	3.4	35
148	Conformation of sarafotoxin-6b in aqueous solution determined by NMR spectroscopy and distance geometry. FEBS Letters, 1991, 282, 247-252.	2.8	34
149	The insecticidal spider toxin <scp>SFI</scp>1 is a knottin peptide that blocks the pore of insect voltageâ€gated sodium channels via a large Î²â€hairpin loop. FEBS Journal, 2015, 282, 904-920.	4.7	34
150	PHAB toxins: a unique family of predatory sea anemone toxins evolving via intra-gene concerted evolution defines a new peptide fold. Cellular and Molecular Life Sciences, 2018, 75, 4511-4524.	5.4	34
151	NaV1.1 inhibition can reduce visceral hypersensitivity. JCI Insight, 2018, 3, .	5.0	34
152	Structural and Biochemical Studies of Human Galanin: NMR Evidence for Nascent Helical Structures in Aqueous Solution. Biochemistry, 1995, 34, 4538-4545.	2.5	33
153	The Generation of1H-NMR-Detectable Mobile Lipid in Stimulated Lymphocytes: Relationship to Cellular Activation, the Cell Cycle, and Phosphatidylcholine-Specific Phospholipase C. Biochemical and Biophysical Research Communications, 1997, 239, 868-874.	2.1	33
154	Domain architecture and structure of the bacterial cell division protein DivIB. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6700-6705.	7.1	33
155	The insecticidal neurotoxin Aps III is an atypical knottin peptide that potently blocks insect voltage-gated sodium channels. Biochemical Pharmacology, 2013, 85, 1542-1554.	4.4	33
156	The structure, dynamics and selectivity profile of a NaV1.7 potency-optimised huwentoxin-IV variant. PLoS ONE, 2017, 12, e0173551.	2.5	33
157	Development of a Sensitive Peptide-Based Immunoassay:â€‰ Application to Detection of the Jun and Fos Oncoproteins. Biochemistry, 1996, 35, 9069-9075.	2.5	32
158	Australian funnel-web spiders evolved human-lethal Î´-hexatoxins for defense against vertebrate predators. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24920-24928.	7.1	32
159	Inhibition and active-site modelling of prolidase. FEBS Journal, 1989, 180, 377-384.	0.2	31
160	RNA polymerase-induced remodelling of NusA produces a pause enhancement complex. Nucleic Acids Research, 2015, 43, 2829-2840.	14.5	31
161	Giant fish-killing water bug reveals ancient and dynamic venom evolution in Heteroptera. Cellular and Molecular Life Sciences, 2018, 75, 3215-3229.	5.4	31
162	SVM-Based Prediction of Propeptide Cleavage Sites in Spider Toxins Identifies Toxin Innovation in an Australian Tarantula. PLoS ONE, 2013, 8, e66279.	2.5	30

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163	Proton NMR spectroscopic studies of dipeptidase in human erythrocytes. Biochemical and Biophysical Research Communications, 1983, 110, 305-312.	2.1	29
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