Jan Tytgat

List of Publications by Year
in descending order

308	11,394	38742 50	46799 89
papers	citations	h-index	g-index

313	313	313	7915
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Subunit stoichiometry of a mammalian K+ channel determined by construction of multimeric cDNAs. Neuron, 1992, 9, 861-871.	8.1	1,063
2	Scorpion toxins specific for Na⁺â€channels. FEBS Journal, 1999, 264, 287-300.	0.2	597
3	A unified nomenclature for short-chain peptides isolated from scorpion venoms: Î±-KTx molecular subfamilies. Trends in Pharmacological Sciences, 1999, 20, 444-447.	8.7	361
4	Recycling rechargeable lithium ion batteries: Critical analysis of natural resource savings. Resources, Conservation and Recycling, 2010, 54, 229-234.	10.8	278
5	An overview of toxins and genes from the venom of the Asian scorpion Buthus martensi Karsch. Toxicon, 2002, 40, 1239-1258.	1.6	250
6	Neurotoxins and Their Binding Areas on Voltage-Gated Sodium Channels. Frontiers in Pharmacology, 2011, 2, 71.	3.5	215
7	Functional Heteromerization of HCN1 and HCN2 Pacemaker Channels. Journal of Biological Chemistry, 2001, 276, 6069-6072.	3.4	188
8	Voltage-gated sodium channel modulation by scorpion Î±-toxins. Toxicon, 2007, 49, 142-158.	1.6	159
9	Antibacterial and antifungal properties of Î±-helical, cationic peptides in the venom of scorpions from southern Africa. FEBS Journal, 2002, 269, 4799-4810.	0.2	157
10	Evidence for cooperative interactions in potassium channel gating. Nature, 1992, 359, 420-423.	27.8	142
11	Four Novel Tarantula Toxins as Selective Modulators of Voltage-Gated Sodium Channel Subtypes. Molecular Pharmacology, 2006, 69, 419-429.	2.3	141
12	Evolutionary origin of inhibitor cystine knot peptides. FASEB Journal, 2003, 17, 1765-1767.	0.5	140
13	Conotoxins Targeting Nicotinic Acetylcholine Receptors: An Overview. Marine Drugs, 2014, 12, 2970-3004.	4.6	137
14	Steviol glycosides enhance pancreatic beta-cell function and taste sensation by potentiation of TRPM5 channel activity. Nature Communications, 2017, 8, 14733.	12.8	136
15	Îº-Hefutoxin1, a Novel Toxin from the ScorpionHeterometrus fulvipes with Unique Structure and Function. Journal of Biological Chemistry, 2002, 277, 30040-30047.	3.4	130
16	The differential preference of scorpion Î±-toxins for insect or mammalian sodium channels: Implications for improved insect control. Toxicon, 2007, 49, 452-472.	1.6	109
17	Targeting Cannabinoid Receptors: Current Status and Prospects of Natural Products. International Journal of Molecular Sciences, 2020, 21, 5064.	4.1	103
18	Adaptive Evolution of Scorpion Sodium Channel Toxins. Journal of Molecular Evolution, 2004, 58, 145-153.	1.8	95

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19	A bifunctional sea anemone peptide with Kunitz type protease and potassium channel inhibiting properties. Biochemical Pharmacology, 2011, 82, 81-90.	4.4	93
20	Sea anemone venom as a source of insecticidal peptides acting on voltage-gated Na+ channels. Toxicon, 2007, 49, 550-560.	1.6	90
21	Multisite Binding of a General Anesthetic to the Prokaryotic Pentameric Erwinia chrysanthemi Ligand-gated Ion Channel (ELIC). Journal of Biological Chemistry, 2013, 288, 8355-8364.	3.4	90
22	Cytolytic and K+ channel blocking activities of Î²-KTx and scorpine-like peptides purified from scorpion venoms. Cellular and Molecular Life Sciences, 2008, 65, 187-200.	5.4	88
23	Expression of Human pICln and ClC-6 in Xenopus Oocytes Induces an Identical Endogenous Chloride Conductance. Journal of Biological Chemistry, 1997, 272, 3615-3621.	3.4	84
24	Gambierol, a toxin produced by the dinoflagellate Gambierdiscus toxicus, is a potent blocker of voltage-gated potassium channels. Toxicon, 2008, 51, 974-983.	1.6	83
25	Potent Modulation of the Voltage-Gated Sodium Channel Nav1.7 by OD1, a Toxin from the Scorpion Odonthobuthus doriae. Molecular Pharmacology, 2006, 70, 405-414.	2.3	82
26	Function and solution structure of hainantoxin-I, a novel insect sodium channel inhibitor from the Chinese bird spider Selenocosmia hainana 1. FEBS Letters, 2003, 555, 616-622.	2.8	75
27	Animal Peptides Targeting Voltage-Activated Sodium Channels. Current Pharmaceutical Design, 2008, 14, 2492-2502.	1.9	74
28	An unusual fold for potassium channel blockers: NMR structure of three toxins from the scorpion Opisthacanthus madagascariensis. Biochemical Journal, 2005, 388, 263-271.	3.7	73
29	Jellyfish and other cnidarian envenomations cause pain by affecting TRPV1 channels. FEBS Letters, 2006, 580, 5728-5732.	2.8	72
30	A natural point mutation changes both target selectivity and mechanism of action of sea anemone toxins. FASEB Journal, 2012, 26, 5141-5151.	0.5	72
31	A Novel Conotoxin from Conus betulinus, Î¹-BtX, Unique in Cysteine Pattern and in Function as a Specific BK Channel Modulator. Journal of Biological Chemistry, 2003, 278, 12624-12633.	3.4	71
32	Transgenerational epigenetic effects from male exposure to endocrine-disrupting compounds: a systematic review on research in mammals. Clinical Epigenetics, 2020, 12, 65.	4.1	66
33	Jingzhaotoxin-I, a Novel Spider Neurotoxin Preferentially Inhibiting Cardiac Sodium Channel Inactivation. Journal of Biological Chemistry, 2005, 280, 12069-12076.	3.4	63
34	Experimental Conversion of a Defensin into a Neurotoxin: Implications for Origin of Toxic Function. Molecular Biology and Evolution, 2014, 31, 546-559.	8.9	62
35	The Î±-Dendrotoxin Footprint on a Mammalian Potassium Channel. Journal of Biological Chemistry, 1995, 270, 24776-24781.	3.4	61
36	Crotamine Pharmacology Revisited: Novel Insights Based on the Inhibition of K_V Channels. Molecular Pharmacology, 2012, 82, 90-96.	2.3	59

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37	Molecular diversity of the telson and venom components from Pandinus cavimanus (Scorpionidae Latreille 1802): Transcriptome, venomics and function. Proteomics, 2012, 12, 313-328.	2.2	59
38	Two new scorpion toxins that target voltage-gated Ca2+ and Na+ channels. Biochemical and Biophysical Research Communications, 2002, 299, 562-568.	2.1	57
39	The evaluation of the applicability of a high pH mobile phase in ultrahigh performance liquid chromatography tandem mass spectrometry analysis of benzodiazepines and benzodiazepine-like hypnotics in urine and blood. Journal of Chromatography A, 2012, 1249, 147-154.	3.7	57
40	A novel conotoxin inhibiting vertebrate voltage-sensitive potassium channels. Toxicon, 2003, 42, 43-52.	1.6	56
41	Molecular Diversity and Functional Evolution of Scorpion Potassium Channel Toxins. Molecular and Cellular Proteomics, 2011, 10, S1-S11.	3.8	56
42	A novel Âµâ€conopeptide, CnIIIC, exerts potent and preferential inhibition of Na_V1.2/1.4 channels and blocks neuronal nicotinic acetylcholine receptors. British Journal of Pharmacology, 2012, 166, 1654-1668.	5.4	55
43	A novel sea anemone peptide that inhibits acid-sensing ion channels. Peptides, 2014, 53, 3-12.	2.4	54
44	Development and validation of a fast ionic liquid-based dispersive liquidâ€“liquid microextraction procedure combined with LCâ€“MS/MS analysis for the quantification of benzodiazepines and benzodiazepine-like hypnotics in whole blood. Forensic Science International, 2017, 274, 44-54.	2.2	54
45	Flunarizine inhibits a high-threshold inactivating calcium channel (N-type) in isolated hippocampal neurons. Brain Research, 1991, 549, 112-117.	2.2	53
46	Evolutionary Diversification of Mesobuthus Î±-Scorpion Toxins Affecting Sodium Channels. Molecular and Cellular Proteomics, 2012, 11, M111.012054.	3.8	53
47	Importance of the Conserved Aromatic Residues in the Scorpion Î±-Like Toxin BmK M1. Journal of Biological Chemistry, 2003, 278, 24125-24131.	3.4	52
48	OD1, the first toxin isolated from the venom of the scorpionOdonthobuthus doriaeactive on voltage-gated Na+channels. FEBS Letters, 2005, 579, 4181-4186.	2.8	52
49	A polyether biotoxin binding site on the lipid-exposed face of the pore domain of Kv channels revealed by the marine toxin gambierol. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9896-9901.	7.1	52
50	TRPV1 as a key determinant in ciguatera and neurotoxic shellfish poisoning. Biochemical and Biophysical Research Communications, 2007, 361, 214-217.	2.1	50
51	MeuTXKÎ²1, a scorpion venom-derived two-domain potassium channel toxin-like peptide with cytolytic activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 872-883.	2.3	49
52	BmTx3, a scorpion toxin with two putative functional faces separately active on A-type K+ and HERG currents. Biochemical Journal, 2004, 378, 745-752.	3.7	48
53	Preparation of longitudinal sections of hair samples for the analysis of cocaine by MALDIâ€MS/MS and TOFâ€SIMS imaging. Drug Testing and Analysis, 2015, 7, 859-865.	2.6	48
54	Kunitz-Type Peptide HCRG21 from the Sea Anemone Heteractis crispa Is a Full Antagonist of the TRPV1 Receptor. Marine Drugs, 2016, 14, 229.	4.6	48

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55	The Birth and Death of Toxins with Distinct Functions: A Case Study in the Sea Anemone Nematostella. Molecular Biology and Evolution, 2019, 36, 2001-2012.	8.9	48
56	Characterization of Amm VIII from Androctonus mauretanicus mauretanicus: a new scorpion toxin that discriminates between neuronal and skeletal sodium channels. Biochemical Journal, 2003, 375, 551-560.	3.7	46
57	Crystal Structures of a Cysteine-modified Mutant in Loop D of Acetylcholine-binding Protein. Journal of Biological Chemistry, 2011, 286, 4420-4428.	3.4	46
58	Fast and easy extraction of antidepressants from whole blood using ionic liquids as extraction solvent. Talanta, 2018, 180, 292-299.	5.5	46
59	Morphine-6Î²-glucuronide and morphine-3-glucuronide, opioid receptor agonists with different potencies11Abbreviations: M3G, morphine-3-glucuronide; M6G, morphine-6Î²-glucuronide; MOR, Î¼-opioid receptor; KOR, Îº-opioid receptor; DOR, Î´-opioid receptor; GIRK channel, G-protein coupled inwardly rectifying K+ channel; RGS, regulator of G-protein signaling; GAP, GTPase-activating protein; TM, transmembrane domain, and HK, high potassium.. Biochemical Pharmacology, 2001, 62, 1273-1282.	4.4	45
60	Consequences of Decontamination Procedures in Forensic Hair Analysis Using Metal-Assisted Secondary Ion Mass Spectrometry Analysis. Analytical Chemistry, 2016, 88, 3091-3097.	6.5	45
61	Variability of Potassium Channel Blockers in Mesobuthus eupeus Scorpion Venom with Focus on Kv1.1. Journal of Biological Chemistry, 2015, 290, 12195-12209.	3.4	44
62	The sea anemoneBunodosoma granuliferacontains surprisingly efficacious and potent insect-selective toxins. FEBS Letters, 2002, 532, 131-134.	2.8	42
63	Toxins in Drug Discovery and Pharmacology. Toxins, 2018, 10, 126.	3.4	42
64	Determination of species-specific components in the venom ofParabuthusscorpions from southern Africa using matrix-assisted laser desorption time-of-flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 768-773.	1.5	41
65	Turret and pore block of K+ channels: what is the difference?. Trends in Pharmacological Sciences, 2003, 24, 446-448.	8.7	40
66	The use of presumptive color tests for new psychoactive substances. Drug Testing and Analysis, 2016, 8, 136-140.	2.6	40
67	Chlorotoxin does not inhibit volume-regulated, calcium-activated and cyclic AMP-activated chloride channels. British Journal of Pharmacology, 2000, 129, 791-801.	5.4	39
68	Venom components from Citharischius crawshayi spider (Family Theraphosidae): exploring transcriptome, venomics, and function. Cellular and Molecular Life Sciences, 2010, 67, 2799-2813.	5.4	39
69	Investigation of the relationship between the structure and function of Ts2, a neurotoxin from Tityusâ€ƒserrulatus venom. FEBS Journal, 2012, 279, 1495-1504.	4.7	38
70	Electrophysiological Characterization of Ts6 and Ts7, K+ Channel Toxins Isolated through an Improved Tityus serrulatus Venom Purification Procedure. Toxins, 2014, 6, 892-913.	3.4	38
71	The Kunitz-Type Protein ShPI-1 Inhibits Serine Proteases and Voltage-Gated Potassium Channels. Toxins, 2016, 8, 110.	3.4	38
72	In the picture: disulfide-poor conopeptides, a class of pharmacologically interesting compounds. Journal of Venomous Animals and Toxins Including Tropical Diseases, 2016, 22, 30.	1.4	38

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73	Phoneutria nigriventer venom: A pharmacological treasure. Toxicon, 2018, 151, 96-110.	1.6	38
74	BmBKTx1, a Novel Ca2+-activated K+ Channel Blocker Purified from the Asian Scorpion Buthus martensi Karsch. Journal of Biological Chemistry, 2004, 279, 34562-34569.	3.4	37
75	Development and validation of a sensitive ultra performance liquid chromatography tandem mass spectrometry method for the analysis of fentanyl and its major metabolite norfentanyl in urine and whole blood in forensic context. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 1987-1996.	2.3	37
76	PnPP-19, a Synthetic and Nontoxic Peptide Designed from a Phoneutria nigriventer Toxin, Potentiates Erectile Function via NO/cGMP. Journal of Urology, 2015, 194, 1481-1490.	0.4	37
77	Purification and partial characterization of a â€˜short' insectotoxin-like peptide from the venom of the scorpion Parabuthus schlechteri. FEBS Letters, 1998, 441, 387-391.	2.8	36
78	Structural Basis for the Voltage-gated Na+ Channel Selectivity of the Scorpion Î±-Like Toxin BmK M1. Journal of Molecular Biology, 2005, 353, 788-803.	4.2	36
79	Importance of positionâ€ƒ8 in Î¼â€conotoxin KIIIA for voltageâ€gated sodium channel selectivity. FEBS Journal, 2011, 278, 3408-3418.	4.7	36
80	Norpropoxyphene-induced cardiotoxicity is associated with changes in ion-selectivity and gating of HERG currents. Cardiovascular Research, 1999, 44, 568-578.	3.8	35
81	Evolutionary trace analysis of scorpion toxins specific for K-channels. Proteins: Structure, Function and Bioinformatics, 2003, 54, 361-370.	2.6	35
82	Molecular basis of the mammalian potency of the scorpion Î±â€like toxin, BmK M1. FASEB Journal, 2005, 19, 1-24.	0.5	35
83	BjÎ±IT: a novel scorpion Î±-toxin selective for insectsâ€"unique pharmacological tool. Insect Biochemistry and Molecular Biology, 2005, 35, 187-195.	2.7	35
84	Bcs<scp>T</scp>x3 is a founder of a novel sea anemone toxin family of potassium channel blocker. FEBS Journal, 2013, 280, 4839-4852.	4.7	35
85	Multiple actions of Ïł-LITX-Lw1a on ryanodine receptors reveal a functional link between scorpion DDH and ICK toxins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8906-8911.	7.1	35
86	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
87	OsK2, a New Selective Inhibitor of Kv1.2 Potassium Channels Purified from the Venom of the Scorpion Orthochirus scrobiculosus. Biochemical and Biophysical Research Communications, 2001, 286, 841-847.	2.1	34
88	A gamut of undiscovered electrophysiological effects produced by Tityus serrulatus toxin 1 on NaV-type isoforms. Neuropharmacology, 2015, 95, 269-277.	4.1	34
89	An allosteric binding site of the Î±7 nicotinic acetylcholine receptor revealed in a humanized acetylcholine-binding protein. Journal of Biological Chemistry, 2018, 293, 2534-2545.	3.4	34
90	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

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91	Assignment of voltage-gated potassium channel blocking activity to Îº-KTx1.3, a non-toxic homologue of Îº-hefutoxin-1, from Heterometrus spinifer venom. Biochemical Pharmacology, 2005, 69, 669-678.	4.4	33
92	Solution Structure and Alanine Scan of a Spider Toxin That Affects the Activation of Mammalian Voltage-gated Sodium Channels. Journal of Biological Chemistry, 2007, 282, 4643-4652.	3.4	33
93	Differential effects of five â€˜classicalâ€™ scorpion Î²-toxins on rNav1.2a and DmNav1 provide clues on species-selectivity. Toxicology and Applied Pharmacology, 2007, 218, 45-51.	2.8	33
94	Purification and characterization of Ts15, the first member of a new Î±-KTX subfamily from the venom of the Brazilian scorpion Tityus serrulatus. Toxicon, 2011, 58, 54-61.	1.6	33
95	Structural Similarity between Defense Peptide from Wheat and Scorpion Neurotoxin Permits Rational Functional Design. Journal of Biological Chemistry, 2014, 289, 14331-14340.	3.4	33
96	Green mamba peptide targets type-2 vasopressin receptor against polycystic kidney disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7154-7159.	7.1	33
97	A new Kaliotoxin selective towards Kv1.3 and Kv1.2 but not Kv1.1 channels expressed in oocytes. Biochemical and Biophysical Research Communications, 2008, 376, 525-530.	2.1	32
98	Insecticidal peptides from the theraposid spider Brachypelma albiceps: An NMR-based model of Ba2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1190-1196.	2.3	32
99	Synthesis, Solution Structure, and Phylum Selectivity of a Spider Î¶-Toxin That Slows Inactivation of Specific Voltage-gated Sodium Channel Subtypes. Journal of Biological Chemistry, 2009, 284, 24568-24582.	3.4	32
100	A potent potassium channel blocker from Mesobuthus eupeus scorpion venom. Biochimie, 2010, 92, 1847-1853.	2.6	32
101	The new kappa-KTx 2.5 from the scorpion Opisthacanthus cayaporum. Peptides, 2011, 32, 1509-1517.	2.4	32
102	Development and validation of a sensitive UPLCâ€“MS/MS method for the analysis of narcotic analgesics in urine and whole blood in forensic context. Forensic Science International, 2012, 215, 136-145.	2.2	32
103	Purification, molecular cloning and functional characterization of HelaTx1 (Heterometrus laoticus): The first member of a new Îº-KTX subfamily. Biochemical Pharmacology, 2012, 83, 1307-1317.	4.4	32
104	Biochemical and Electrophysiological Characterization of Two Sea Anemone Type 1 Potassium Toxins from a Geographically Distant Population of Bunodosoma caissarum. Marine Drugs, 2013, 11, 655-679.	4.6	32
105	APETx4, a Novel Sea Anemone Toxin and a Modulator of the Cancer-Relevant Potassium Channel KV10.1. Marine Drugs, 2017, 15, 287.	4.6	32
106	OdK2, a Kv1.3 channel-selective toxin from the venom of the Iranian scorpion Odonthobuthus doriae. Toxicon, 2008, 51, 1424-1430.	1.6	31
107	Unique Bell-shaped Voltage-dependent Modulation of Na+ Channel Gating by Novel Insect-selective Toxins from the Spider Agelena orientalis. Journal of Biological Chemistry, 2010, 285, 18545-18554.	3.4	31
108	Modular Organization of Î±-Toxins from Scorpion Venom Mirrors Domain Structure of Their Targets, Sodium Channels. Journal of Biological Chemistry, 2013, 288, 19014-19027.	3.4	31

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109	The antifungal plant defensin AtPDF2.3 from Arabidopsis thaliana blocks potassium channels. Scientific Reports, 2016, 6, 32121.	3.3	31
110	Structure of the SthK Carboxy-Terminal Region Reveals a Gating Mechanism for Cyclic Nucleotide-Modulated Ion Channels. PLoS ONE, 2015, 10, e0116369.	2.5	31
111	Evolutionary epitopes of Hsp90 and p23: implications for their interaction. FASEB Journal, 2004, 18, 940-947.	0.5	30
112	The depressant scorpion neurotoxin LqqIT2 selectively modulates the insect voltage-gated sodium channel. Toxicon, 2005, 45, 501-507.	1.6	30
113	Design of Bioactive Peptides from Naturally Occurring Î¼-Conotoxin Structures. Journal of Biological Chemistry, 2012, 287, 31382-31392.	3.4	30
114	Allosteric binding site in a Cys-loop receptor ligand-binding domain unveiled in the crystal structure of ELIC in complex with chlorpromazine. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6696-E6703.	7.1	30
115	Electrophysiological characterization of Bm K M1, an Î±-like toxin from Buthus martensi Karsch venom. FEBS Letters, 2001, 495, 61-65.	2.8	29
116	Characterization of two Bunodosoma granulifera toxins active on cardiac sodium channels. British Journal of Pharmacology, 2001, 134, 1195-1206.	5.4	29
117	The poison Dart frog's batrachotoxin modulates Nav1.8. FEBS Letters, 2004, 577, 245-248.	2.8	29
118	Novel conopeptides of the I-superfamily occur in several clades of cone snails. Toxicon, 2004, 44, 539-548.	1.6	29
119	Investigating possible biological targets of Bj-CRP, the first cysteine-rich secretory protein (CRISP) isolated from Bothrops jararaca snake venom. Toxicology Letters, 2017, 265, 156-169.	0.8	29
120	A novel toxin from the venom of the scorpionTityus trivittatus, is the first member of a new Î±-KTX subfamily. FEBS Letters, 2006, 580, 592-596.	2.8	28
121	Fluorescent protein-scorpion toxin chimera is a convenient molecular tool for studies of potassium channels. Scientific Reports, 2016, 6, 33314.	3.3	28
122	Comparison and characterization of the venoms of three Parabuthus scorpion species occurring in southern Africa. Toxicon, 1998, 36, 341-352.	1.6	27
123	The dual modulation of GIRK1/GIRK2 channels by opioid receptor ligands. European Journal of Pharmacology, 1999, 385, 239-245.	3.5	27
124	Phaiodotoxin, a novel structural class of insect-toxin isolated from the venom of the Mexican scorpion Anuroctonus phaiodactylus. FEBS Journal, 2004, 271, 4753-4761.	0.2	27
125	Exploring structural features of the interaction between the scorpion toxinCnErg1 and ERG K+ channels. Proteins: Structure, Function and Bioinformatics, 2004, 56, 367-375.	2.6	27
126	An insecticidal peptide from the theraposid Brachypelma smithi spider venom reveals common molecular features among spider species from different genera. Peptides, 2008, 29, 1901-1908.	2.4	27

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127	Voltageâ€gated sodium channel isoformâ€specific effects of pompilidotoxins. FEBS Journal, 2010, 277, 918-930.	4.7	27
128	Purification, characterization and biosynthesis of parabutoxinâ€ƒ3, a component of Parabuthus transvaalicus venom. FEBS Journal, 2002, 269, 1854-1865.	0.2	26
129	The first potassium channel toxin from the venom of the Iranian scorpionOdonthobuthus doriae. FEBS Letters, 2006, 580, 6254-6258.	2.8	26
130	Subtype specificity interaction of bactridines with mammalian, insect and bacterial sodium channels under voltage clamp conditions. FEBS Journal, 2012, 279, 4025-4038.	4.7	26
131	Cardiac channelopathy causing sudden death as revealed by molecular autopsy. International Journal of Legal Medicine, 2013, 127, 145-151.	2.2	26
132	Electrophysiological characterization of the first Tityus serrulatus alpha-like toxin, Ts5: Evidence of a pro-inflammatory toxin on macrophages. Biochimie, 2015, 115, 8-16.	2.6	26
133	Structural and Functional Elucidation of Peptide Ts11 Shows Evidence of a Novel Subfamily of Scorpion Venom Toxins. Toxins, 2016, 8, 288.	3.4	26
134	Target-Driven Positive Selection at Hot Spots of Scorpion Toxins Uncovers Their Potential in Design of Insecticides. Molecular Biology and Evolution, 2016, 33, 1907-1920.	8.9	26
135	Characterization of scorpion Î±-like toxin group using two new toxins from the scorpion Leiurus quinquestriatus hebraeus. FEBS Journal, 2002, 269, 3920-3933.	0.2	25
136	Discovery of a new subclass of Î±-conotoxins in the venom of Conus australis. Toxicon, 2014, 91, 145-154.	1.6	25
137	A Subfamily of Acidic Î±-K+ Toxins. Journal of Biological Chemistry, 2004, 279, 2781-2789.	3.4	24
138	A common â€œhot spotâ€•confers hERG blockade activity to Î±-scorpion toxins affecting K+ channels. Biochemical Pharmacology, 2008, 76, 805-815.	4.4	24
139	The ladder-shaped polyether toxin gambierol anchors the gating machinery of Kv3.1 channels in the resting state. Journal of General Physiology, 2013, 141, 359-369.	1.9	24
140	The Mediterranean scorpion Mesobuthus gibbosus (Scorpiones, Buthidae): transcriptome analysis and organization of the genome encoding chlorotoxin-like peptides. BMC Genomics, 2014, 15, 295.	2.8	24
141	Differential effects of the recombinant toxin PnTx4(5-5) from the spider Phoneutria nigriventer on mammalian and insect sodium channels. Biochimie, 2016, 121, 326-335.	2.6	24
142	Isolation and characterization of Ts19 Fragment II, a new long-chain potassium channel toxin from Tityus serrulatus venom. Peptides, 2016, 80, 9-17.	2.4	24
143	New â€œBirtoxin analogsâ€•from Androctonus australis venom. Biochemical and Biophysical Research Communications, 2005, 333, 524-530.	2.1	23
144	Inhibitory effect of the recombinant Phoneutria nigriventer Tx1 toxin on voltage-gated sodium channels. Biochimie, 2012, 94, 2756-2763.	2.6	23

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145	The proteomic profile of Stichodactyla duerdeni secretion reveals the presence of a novel O-linked glycopeptide. Journal of Proteomics, 2013, 87, 89-102.	2.4	23
146	Revealing the Function and the Structural Model of Ts4: Insights into the â€œNon-Toxicâ€•Toxin from Tityus serrulatus Venom. Toxins, 2015, 7, 2534-2550.	3.4	23
147	Where cone snails and spiders meet: design of small cyclic sodiumâ€channel inhibitors. FASEB Journal, 2019, 33, 3693-3703.	0.5	23
148	Beyond hemostasis: a snake venom serine protease with potassium channel blocking and potential antitumor activities. Scientific Reports, 2020, 10, 4476.	3.3	23
149	Discovery of K_V1.3 ion channel inhibitors: Medicinal chemistry approaches and challenges. Medicinal Research Reviews, 2021, 41, 2423-2473.	10.5	23
150	Isolation and characterization of two novel scorpion toxins: The Î±-toxin-like CeII8, specific for Nav1.7 channels and the classical anti-mammalian CeII9, specific for Nav1.4 channels. Toxicon, 2010, 56, 613-623.	1.6	22
151	Atypical Reactive Center Kunitz-Type Inhibitor from the Sea Anemone Heteractis crispa. Marine Drugs, 2012, 10, 1545-1565.	4.6	22
152	Novel potassium channel blocker venom peptides from Mesobuthus gibbosus (Scorpiones: Buthidae). Toxicon, 2013, 61, 72-82.	1.6	22
153	Two recombinant Î±-like scorpion toxins from Mesobuthus eupeus with differential affinity toward insect and mammalian Na+ channels. Biochimie, 2013, 95, 1732-1740.	2.6	22
154	Chronic Administration of Anticholinergics in Rats Induces a Shift from Muscarinic to Purinergic Transmission in the Bladder Wall. European Urology, 2013, 64, 502-510.	1.9	22
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