Alexander A Vassilevski

List of Publications by Citations

74 papers	1,612 citations	25 h-index	37 g-index
85 ext. papers	1,855 ext. citations	4.1 avg, IF	4.45 L-index

#	Paper	IF	Citations
74	Molecular diversity of spider venom. *Biochemistry (Moscow)*, **2009**, 74, 1505-34	2.9	122
73	Latarcins, antimicrobial and cytolytic peptides from the venom of the spider Lachesana tarabaevi (Zodariidae) that exemplify biomolecular diversity. *Journal of Biological Chemistry*, **2006**, 281, 20983-20992	5.4	121
72	Disulfide-stabilized helical hairpin structure and activity of a novel antifungal peptide EcAMP1 from seeds of barnyard grass (Echinochloa crus-galli). *Journal of Biological Chemistry*, **2011**, 286, 25145-53	5.4	65
71	A novel antifungal hevein-type peptide from Triticum kiharae seeds with a unique 10-cysteine motif. *FEBS Journal*, **2009**, 276, 4266-75	5.7	61
70	Cyto-insectotoxins, a novel class of cytolytic and insecticidal peptides from spider venom. *Biochemical Journal*, **2008**, 411, 687-96	3.8	61
69	Cyanogen bromide cleavage of proteins in salt and buffer solutions. *Analytical Biochemistry*, **2010**, 407, 144-6	3.1	56
68	Mechanisms of Channel Block in Calcium-Permeable AMPA Receptors. *Neuron*, **2018**, 99, 956-968.e4	13.9	51
67	Novel peptide from spider venom inhibits P2X3 receptors and inflammatory pain. *Annals of Neurology*, **2010**, 67, 680-3	9.4	47
66	Novel mode of action of plant defense peptides - hevein-like antimicrobial peptides from wheat inhibit fungal metalloproteases. *FEBS Journal*, **2014**, 281, 4754-64	5.7	45
65	Buckwheat trypsin inhibitor with helical hairpin structure belongs to a new family of plant defence peptides. *Biochemical Journal*, **2012**, 446, 69-77	3.8	43
64	Bacterial production of latarcin 2a, a potent antimicrobial peptide from spider venom. *Protein Expression and Purification*, **2008**, 60, 89-95	2	41
63	Diversity of Potassium Channel Ligands: Focus on Scorpion Toxins. *Biochemistry (Moscow)*, **2015**, 80, 1764-99	2.9	40
62	Latarcins: versatile spider venom peptides. *Cellular and Molecular Life Sciences*, **2015**, 72, 4501-22	10.3	39
61	Variability of Potassium Channel Blockers in Mesobuthus eupeus Scorpion Venom with Focus on Kv1.1: AN INTEGRATED TRANSCRIPTOMIC AND PROTEOMIC STUDY. *Journal of Biological Chemistry* , **2015**, 290, 12195-209	5.4	35
60	Genes encoding 4-Cys antimicrobial peptides in wheat Triticum kiharae Dorof. et Migush.: multimodular structural organization, instraspecific variability, distribution and role in defence. *FEBS Journal*, **2013**, 280, 3594-608	5.7	35
59	Novel antifungal hairpinin peptide from Stellaria media seeds: structure, biosynthesis, gene structure and evolution. *Plant Molecular Biology*, **2014**, 84, 189-202	4.6	33
58	Novel class of spider toxin: active principle from the yellow sac spider Cheiracanthium punctorium venom is a unique two-domain polypeptide. *Journal of Biological Chemistry*, **2010**, 285, 32293-302	5.4	33

57	Solution structure of a defense peptide from wheat with a 10-cysteine motif. *Biochemical and Biophysical Research Communications*, **2011**, 411, 14-8	3.4	32
56	Genes encoding hevein-like defense peptides in wheat: distribution, evolution, and role in stress response. *Biochimie*, **2012**, 94, 1009-16	4.6	30
55	Kalium: a database of potassium channel toxins from scorpion venom. *Database: the Journal of Biological Databases and Curation*, **2016**, 2016,	5	29
54	Linear antimicrobial peptides from Ectatomma quadridens ant venom. *Biochimie*, **2014**, 107 Pt B, 211-5	4.6	28
53	N-terminal amphipathic helix as a trigger of hemolytic activity in antimicrobial peptides: a case study in latarcins. *FEBS Letters*, **2009**, 583, 2425-8	3.8	27
52	Modular organization of β-toxins from scorpion venom mirrors domain structure of their targets, sodium channels. *Journal of Biological Chemistry*, **2013**, 288, 19014-27	5.4	26
51	Cysteine-rich toxins from Lachesana tarabaevi spider venom with amphiphilic C-terminal segments. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 724-31	3.8	26
50	Molecules to selectively target receptors for treatment of pain and neurogenic inflammation. *Recent Patents on Inflammation and Allergy Drug Discovery*, **2012**, 6, 35-45	5.4	25
49	Novel lynx spider toxin shares common molecular architecture with defense peptides from frog skin. *FEBS Journal*, **2011**, 278, 4382-93	5.7	25
48	Purification and characterization of biologically active peptides from spider venoms. *Methods in Molecular Biology*, **2010**, 615, 87-100	1.4	25
47	omega-Lsp-IA, a novel modulator of P-type Ca2+ channels. *Toxicon*, **2007**, 50, 993-1004	2.8	25
46	Fluorescent system based on bacterial expression of hybrid KcsA channels designed for Kv1.3 ligand screening and study. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 2379-89	4.4	24
45	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, 18545-54	5.4	24
44	Antimicrobial peptide precursor structures suggest effective production strategies. *Recent Patents on Inflammation and Allergy Drug Discovery*, **2008**, 2, 58-63	5.4	23
43	Structural similarity between defense peptide from wheat and scorpion neurotoxin permits rational functional design. *Journal of Biological Chemistry*, **2014**, 289, 14331-40	5.4	20
42	Spider toxins comprising disulfide-rich and linear amphipathic domains: a new class of molecules identified in the lynx spider Oxyopes takobius. *FEBS Journal*, **2013**, 280, 6247-61	5.7	19
41	Recent advances in computational modeling of α-helical membrane-active peptides. *Current Protein and Peptide Science*, **2012**, 13, 644-57	2.8	18
40	Modulation of P2X3 receptors by spider toxins. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 2868-75	3.8	16

39	Lachesana tarabaevi, an expert in membrane-active toxins. *Biochemical Journal*, **2016**, 473, 2495-506	3.8	16
38	Fluorescent protein-scorpion toxin chimera is a convenient molecular tool for studies of potassium channels. *Scientific Reports*, **2016**, 6, 33314	4.9	15
37	Kalium 2.0, a comprehensive database of polypeptide ligands of potassium channels. *Scientific Data* , **2019**, 6, 73	8.2	14
36	Spider venom peptides for gene therapy of Chlamydia infection. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 5367-9	5.9	14
35	K1.2 channel-specific blocker from Mesobuthus eupeus scorpion venom: Structural basis of selectivity. *Neuropharmacology*, **2018**, 143, 228-238	5.5	14
34	Spider toxin inhibits gating pore currents underlying periodic paralysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4495-4500	11.5	13
33	Genes and evolution of two-domain toxins from lynx spider venom. *FEBS Letters*, **2014**, 588, 740-5	3.8	13
32	Structure of membrane-active toxin from crab spider Heriaeus melloteei suggests parallel evolution of sodium channel gating modifiers in Araneomorphae and Mygalomorphae. *Journal of Biological Chemistry*, **2015**, 290, 492-504	5.4	12
31	Antimicrobial peptide from spider venom inhibits Chlamydia trachomatis infection at an early stage. *Archives of Microbiology*, **2013**, 195, 173-9	3	12
30	Two novel sodium channel inhibitors from Heriaeus melloteei spider venom differentially interacting with mammalian channels isoforms. *Toxicon*, **2008**, 52, 309-17	2.8	12
29	Structure of the yellow sac spider Cheiracanthium punctorium genes provides clues to evolution of insecticidal two-domain knottin toxins. *Insect Molecular Biology*, **2014**, 23, 527-38	3.4	11
28	Structure of purotoxin-2 from wolf spider: modular design and membrane-assisted mode of action in arachnid toxins. *Biochemical Journal*, **2016**, 473, 3113-26	3.8	11
27	Labelled animal toxins as selective molecular markers of ion channels: Applications in neurobiology and beyond. *Neuroscience Letters*, **2018**, 679, 15-23	3.3	11
26	Modular toxin from the lynx spider Oxyopes takobius: Structure of spiderine domains in solution and membrane-mimicking environment. *Protein Science*, **2017**, 26, 611-616	6.3	6
25	Protein surface topography as a tool to enhance the selective activity of a potassium channel blocker. *Journal of Biological Chemistry*, **2019**, 294, 18349-18359	5.4	6
24	Scorpion toxins interact with nicotinic acetylcholine receptors. *FEBS Letters*, **2019**, 593, 2779-2789	3.8	6
23	Voltage-gated sodium channels are targets for toxins from the venom of the spider Heriaeus melloteei. *Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology*, **2009**, 3, 245-253	0.7	6
22	C-Terminal residues in small potassium channel blockers OdK1 and OSK3 from scorpion venom fine-tune the selectivity. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2017**, 1865, 465-472	4	5

21	Design of sodium channel ligands with defined selectivity - a case study in scorpion alpha-toxins. *FEBS Letters*, **2017**, 591, 3414-3420	3.8	5
20	Pharmacological analysis of Poecilotheria spider venoms in mice provides clues for human treatment. *Toxicon*, **2017**, 138, 59-67	2.8	5
19	Refined structure of BeM9 reveals arginine hand, an overlooked structural motif in scorpion toxins affecting sodium channels. *Proteins: Structure, Function and Bioinformatics*, **2018**, 86, 1117-1122	4.2	4
18	Cyto-Insectotoxin 1a from Lachesana tarabaevi Spider Venom Inhibits Chlamydia trachomatis Infection. *Probiotics and Antimicrobial Proteins*, **2012**, 4, 208-16	5.5	4
17	Discovery of a Recombinant Human Monoclonal Immunoglobulin G Antibody Against Latrotoxin From the Mediterranean Black Widow Spider (). *Frontiers in Immunology*, **2020**, 11, 587825	8.4	4
16	Tuning Scorpion Toxin Selectivity: Switching From K1.1 to K1.3. *Frontiers in Pharmacology*, **2020**, 11, 1010	5.6	3
15	Cell-Free Expression of Sodium Channel Domains for Pharmacology Studies. Noncanonical Spider Toxin Binding Site in the Second Voltage-Sensing Domain of Human Na1.4 Channel. *Frontiers in Pharmacology*, **2019**, 10, 953	5.6	2
14	Synthetic analogues of antimicrobial peptides from the venom of the Central Asian spider Lachesana tarabaevi. *Russian Journal of Bioorganic Chemistry*, **2007**, 33, 376-382	1	2
13	Novel active principles from spider venom. *Acta Chimica Slovenica*, **2011**, 58, 717-23	1.9	2
12	Recombinant Production and Structure-Function Study of the Ts1 Toxin from the Brazilian Scorpion Tityus serrulatus. *Doklady Biochemistry and Biophysics*, **2019**, 484, 9-12	0.8	1
11	Proteinase Inhibitors From Buckwheat (Fagopyrum esculentum Moench) Seeds **2020**, 521-532		1
10	Potassium channel blocker crafted by hairpinin scaffold engineering. *Biophysical Journal*, **2021**, 120, 2471-2481	2.9	1
9	Scorpion toxin MeuNaTx1 sensitizes primary nociceptors by selective modulation of voltage-gated sodium channels. *FEBS Journal*, **2021**, 288, 2418-2435	5.7	1
8	Artificial Peptide Ligand of Potassium Channel KV1.1 with High Selectivity. *Journal of Evolutionary Biochemistry and Physiology*, **2021**, 57, 386-403	0.5	0
7	Quantitative Confocal Microscopy Analysis as a Basis for Search and Study of Potassium Kv1.x Channel Blockers. *Springer Proceedings in Physics*, **2015**, 249-254	0.2	
6	Peptidomics of Short Linear Cytolytic Peptides from Spider Venom55-70		
5	Snake Toxins Labeled by Green Fluorescent Protein or Its Synthetic Chromophore are New Probes for Nicotinic acetylcholine Receptors.. *Frontiers in Molecular Biosciences*, **2021**, 8, 753283	5.6	
4	Structure of MeuNaTx1 toxin from scorpion venom highlights the importance of the nest motif. *Proteins: Structure, Function and Bioinformatics*, **2021**, 89, 1055	4.2	

3	Voltage-Sensing Domain of the Third Repeat of Human Skeletal Muscle NaV1.4 Channel As a New Target for Spider Gating Modifier Toxins. *Acta Naturae*, **2021**, 13, 134-139	2.1
2	Derivative of Scorpion Neurotoxin BeM9 Is Selective for Insect Voltage-Gated Sodium Channels. *Russian Journal of Bioorganic Chemistry*, **2021**, 47, 854-863	1
1	Cover Image, Volume 86, Issue 10. *Proteins: Structure, Function and Bioinformatics*, **2018**, 86, C4-C4	4.2