

# Alexander A Vassilevski

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Snake Toxins Labeled by Green Fluorescent Protein or Its Synthetic Chromophore are New Probes for Nicotinic acetylcholine Receptors.. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 753283	5.6	
73	Structure of MeuNaTx $\beta$ I toxin from scorpion venom highlights the importance of the nest motif. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 1055	4.2	
72	Artificial Peptide Ligand of Potassium Channel KV1.1 with High Selectivity. <i>Journal of Evolutionary Biochemistry and Physiology</i> , <b>2021</b> , 57, 386-403	0.5	0
71	Voltage-Sensing Domain of the Third Repeat of Human Skeletal Muscle NaV1.4 Channel As a New Target for Spider Gating Modifier Toxins. <i>Acta Naturae</i> , <b>2021</b> , 13, 134-139	2.1	
70	Potassium channel blocker crafted by Hairpin scaffold engineering. <i>Biophysical Journal</i> , <b>2021</b> , 120, 2471-2481	2.9	1
69	Derivative of Scorpion Neurotoxin BeM9 Is Selective for Insect Voltage-Gated Sodium Channels. <i>Russian Journal of Bioorganic Chemistry</i> , <b>2021</b> , 47, 854-863	1	
68	Scorpion toxin MeuNaTx $\beta$ I sensitizes primary nociceptors by selective modulation of voltage-gated sodium channels. <i>FEBS Journal</i> , <b>2021</b> , 288, 2418-2435	5.7	1
67	Proteinase Inhibitors From Buckwheat ( <i>Fagopyrum esculentum</i> Moench) Seeds <b>2020</b> , 521-532		1
66	Tuning Scorpion Toxin Selectivity: Switching From K1.1 to K1.3. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 101056	5.6	3
65	Discovery of a Recombinant Human Monoclonal Immunoglobulin G Antibody Against $\delta$ -Latrotoxin From the Mediterranean Black Widow Spider (). <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 587825	8.4	4
64	Protein surface topography as a tool to enhance the selective activity of a potassium channel blocker. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 18349-18359	5.4	6
63	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. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 953	5.6	2
62	Kalium 2.0, a comprehensive database of polypeptide ligands of potassium channels. <i>Scientific Data</i> , <b>2019</b> , 6, 73	8.2	14
61	Recombinant Production and Structure-Function Study of the Ts1 Toxin from the Brazilian Scorpion <i>Tityus serrulatus</i> . <i>Doklady Biochemistry and Biophysics</i> , <b>2019</b> , 484, 9-12	0.8	1
60	Scorpion toxins interact with nicotinic acetylcholine receptors. <i>FEBS Letters</i> , <b>2019</b> , 593, 2779-2789	3.8	6
59	Spider toxin inhibits gating pore currents underlying periodic paralysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 4495-4500	11.5	13
58	Refined structure of BeM9 reveals arginine hand, an overlooked structural motif in scorpion toxins affecting sodium channels. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2018</b> , 86, 1117-1122	4.2	4

57	Mechanisms of Channel Block in Calcium-Permeable AMPA Receptors. <i>Neuron</i> , <b>2018</b> , 99, 956-968.e4	13.9	51
56	Labelled animal toxins as selective molecular markers of ion channels: Applications in neurobiology and beyond. <i>Neuroscience Letters</i> , <b>2018</b> , 679, 15-23	3.3	11
55	Cover Image, Volume 86, Issue 10. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2018</b> , 86, C4-C4	4.2	
54	K1.2 channel-specific blocker from <i>Mesobuthus eupeus</i> scorpion venom: Structural basis of selectivity. <i>Neuropharmacology</i> , <b>2018</b> , 143, 228-238	5.5	14
53	C-Terminal residues in small potassium channel blockers Odk1 and OSK3 from scorpion venom fine-tune the selectivity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2017</b> , 1865, 465-472	4	5
52	Modular toxin from the lynx spider <i>Oxyopes takobius</i> : Structure of spiderine domains in solution and membrane-mimicking environment. <i>Protein Science</i> , <b>2017</b> , 26, 611-616	6.3	6
51	Design of sodium channel ligands with defined selectivity - a case study in scorpion alpha-toxins. <i>FEBS Letters</i> , <b>2017</b> , 591, 3414-3420	3.8	5
50	Pharmacological analysis of <i>Poecilotheria</i> spider venoms in mice provides clues for human treatment. <i>Toxicon</i> , <b>2017</b> , 138, 59-67	2.8	5
49	Kalium: a database of potassium channel toxins from scorpion venom. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2016</b> , 2016,	5	29
48	Fluorescent protein-scorpion toxin chimera is a convenient molecular tool for studies of potassium channels. <i>Scientific Reports</i> , <b>2016</b> , 6, 33314	4.9	15
47	Structure of purotoxin-2 from wolf spider: modular design and membrane-assisted mode of action in arachnid toxins. <i>Biochemical Journal</i> , <b>2016</b> , 473, 3113-26	3.8	11
46	<i>Lachesana tarabaevi</i> , an expert in membrane-active toxins. <i>Biochemical Journal</i> , <b>2016</b> , 473, 2495-506	3.8	16
45	Quantitative Confocal Microscopy Analysis as a Basis for Search and Study of Potassium Kv1.x Channel Blockers. <i>Springer Proceedings in Physics</i> , <b>2015</b> , 249-254	0.2	
44	Variability of Potassium Channel Blockers in <i>Mesobuthus eupeus</i> Scorpion Venom with Focus on Kv1.1: AN INTEGRATED TRANSCRIPTOMIC AND PROTEOMIC STUDY. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 12195-209	5.4	35
43	Latarcins: versatile spider venom peptides. <i>Cellular and Molecular Life Sciences</i> , <b>2015</b> , 72, 4501-22	10.3	39
42	Structure of membrane-active toxin from crab spider <i>Heriades melloteei</i> suggests parallel evolution of sodium channel gating modifiers in Araneomorphae and Mygalomorphae. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 492-504	5.4	12
41	Diversity of Potassium Channel Ligands: Focus on Scorpion Toxins. <i>Biochemistry (Moscow)</i> , <b>2015</b> , 80, 1764-99	4.9	40
40	Structure of the yellow sac spider <i>Cheiracanthium punctorium</i> genes provides clues to evolution of insecticidal two-domain knottin toxins. <i>Insect Molecular Biology</i> , <b>2014</b> , 23, 527-38	3.4	11

39	Genes and evolution of two-domain toxins from lynx spider venom. <i>FEBS Letters</i> , <b>2014</b> , 588, 740-5	3.8	13
38	Structural similarity between defense peptide from wheat and scorpion neurotoxin permits rational functional design. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 14331-40	5.4	20
37	Novel antifungal hairpinin peptide from <i>Stellaria media</i> seeds: structure, biosynthesis, gene structure and evolution. <i>Plant Molecular Biology</i> , <b>2014</b> , 84, 189-202	4.6	33
36	Linear antimicrobial peptides from <i>Ectatomma quadridens</i> ant venom. <i>Biochimie</i> , <b>2014</b> , 107 Pt B, 211-5	4.6	28
35	Novel mode of action of plant defense peptides - hevein-like antimicrobial peptides from wheat inhibit fungal metalloproteases. <i>FEBS Journal</i> , <b>2014</b> , 281, 4754-64	5.7	45
34	Modular organization of toxins from scorpion venom mirrors domain structure of their targets, sodium channels. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 19014-27	5.4	26
33	Spider toxins comprising disulfide-rich and linear amphipathic domains: a new class of molecules identified in the lynx spider <i>Oxyopes takobius</i> . <i>FEBS Journal</i> , <b>2013</b> , 280, 6247-61	5.7	19
32	Fluorescent system based on bacterial expression of hybrid KcsA channels designed for Kv1.3 ligand screening and study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 2379-89	4.4	24
31	Antimicrobial peptide from spider venom inhibits <i>Chlamydia trachomatis</i> infection at an early stage. <i>Archives of Microbiology</i> , <b>2013</b> , 195, 173-9	3	12
30	Genes encoding 4-Cys antimicrobial peptides in wheat <i>Triticum kiharae</i> Dorof. et Migush.: multimodular structural organization, intraspecific variability, distribution and role in defence. <i>FEBS Journal</i> , <b>2013</b> , 280, 3594-608	5.7	35
29	Cysteine-rich toxins from <i>Lachesana tarabaevi</i> spider venom with amphiphilic C-terminal segments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 724-31	3.8	26
28	Buckwheat trypsin inhibitor with helical hairpin structure belongs to a new family of plant defence peptides. <i>Biochemical Journal</i> , <b>2012</b> , 446, 69-77	3.8	43
27	Genes encoding hevein-like defense peptides in wheat: distribution, evolution, and role in stress response. <i>Biochimie</i> , <b>2012</b> , 94, 1009-16	4.6	30
26	Molecules to selectively target receptors for treatment of pain and neurogenic inflammation. <i>Recent Patents on Inflammation and Allergy Drug Discovery</i> , <b>2012</b> , 6, 35-45	5.4	25
25	Modulation of P2X3 receptors by spider toxins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 2868-75	3.8	16
24	Cyto-Insectotoxin 1a from <i>Lachesana tarabaevi</i> Spider Venom Inhibits <i>Chlamydia trachomatis</i> Infection. <i>Probiotics and Antimicrobial Proteins</i> , <b>2012</b> , 4, 208-16	5.5	4
23	Recent advances in computational modeling of helical membrane-active peptides. <i>Current Protein and Peptide Science</i> , <b>2012</b> , 13, 644-57	2.8	18
22	Solution structure of a defense peptide from wheat with a 10-cysteine motif. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 411, 14-8	3.4	32

21	Spider venom peptides for gene therapy of Chlamydia infection. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2011</b> , 55, 5367-9	5.9	14
20	Novel lynx spider toxin shares common molecular architecture with defense peptides from frog skin. <i>FEBS Journal</i> , <b>2011</b> , 278, 4382-93	5.7	25
19	Disulfide-stabilized helical hairpin structure and activity of a novel antifungal peptide EcAMP1 from seeds of barnyard grass ( <i>Echinochloa crus-galli</i> ). <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 25145-53	5.4	65
18	Novel active principles from spider venom. <i>Acta Chimica Slovenica</i> , <b>2011</b> , 58, 717-23	1.9	2
17	Novel class of spider toxin: active principle from the yellow sac spider <i>Cheiracanthium punctorium</i> venom is a unique two-domain polypeptide. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 32293-302	5.4	33
16	Purification and characterization of biologically active peptides from spider venoms. <i>Methods in Molecular Biology</i> , <b>2010</b> , 615, 87-100	1.4	25
15	Unique bell-shaped voltage-dependent modulation of Na <sup>+</sup> channel gating by novel insect-selective toxins from the spider <i>Agelena orientalis</i> . <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 18545-54	5.4	24
14	Novel peptide from spider venom inhibits P2X3 receptors and inflammatory pain. <i>Annals of Neurology</i> , <b>2010</b> , 67, 680-3	9.4	47
13	Cyanogen bromide cleavage of proteins in salt and buffer solutions. <i>Analytical Biochemistry</i> , <b>2010</b> , 407, 144-6	3.1	56
12	N-terminal amphipathic helix as a trigger of hemolytic activity in antimicrobial peptides: a case study in laticins. <i>FEBS Letters</i> , <b>2009</b> , 583, 2425-8	3.8	27
11	Molecular diversity of spider venom. <i>Biochemistry (Moscow)</i> , <b>2009</b> , 74, 1505-34	2.9	122
10	A novel antifungal hevein-type peptide from <i>Triticum kiharae</i> seeds with a unique 10-cysteine motif. <i>FEBS Journal</i> , <b>2009</b> , 276, 4266-75	5.7	61
9	Voltage-gated sodium channels are targets for toxins from the venom of the spider <i>Heriades melloteei</i> . <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , <b>2009</b> , 3, 245-253	0.7	6
8	Cyto-insectotoxins, a novel class of cytolytic and insecticidal peptides from spider venom. <i>Biochemical Journal</i> , <b>2008</b> , 411, 687-96	3.8	61
7	Two novel sodium channel inhibitors from <i>Heriades melloteei</i> spider venom differentially interacting with mammalian channel isoforms. <i>Toxicon</i> , <b>2008</b> , 52, 309-17	2.8	12
6	Bacterial production of laticin 2a, a potent antimicrobial peptide from spider venom. <i>Protein Expression and Purification</i> , <b>2008</b> , 60, 89-95	2	41
5	Antimicrobial peptide precursor structures suggest effective production strategies. <i>Recent Patents on Inflammation and Allergy Drug Discovery</i> , <b>2008</b> , 2, 58-63	5.4	23
4	Synthetic analogues of antimicrobial peptides from the venom of the Central Asian spider <i>Lachesana tarabaevi</i> . <i>Russian Journal of Bioorganic Chemistry</i> , <b>2007</b> , 33, 376-382	1	2

