Sergey A Kozlov

List of Publications by Citations

80 papers	1,677 citations	24 h-index	38 g-index
96 ext. papers	1,956 ext. citations	3.7 avg, IF	4.56 L-index

#	Paper	IF	Citations
80	Molecular diversity of spider venom. *Biochemistry (Moscow)*, **2009**, 74, 1505-34	2.9	122
79	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
78	Analgesic compound from sea anemone Heteractis crispa is the first polypeptide inhibitor of vanilloid receptor 1 (TRPV1). *Journal of Biological Chemistry*, **2008**, 283, 23914-21	5.4	103
77	A novel strategy for the identification of toxinlike structures in spider venom. *Proteins: Structure, Function and Bioinformatics*, **2005**, 59, 131-40	4.2	85
76	An ERG channel inhibitor from the scorpion Buthus eupeus. *Journal of Biological Chemistry*, **2001**, 276, 9868-76	5.4	78
75	Cyto-insectotoxins, a novel class of cytolytic and insecticidal peptides from spider venom. *Biochemical Journal*, **2008**, 411, 687-96	3.8	61
74	Cyanogen bromide cleavage of proteins in salt and buffer solutions. *Analytical Biochemistry*, **2010**, 407, 144-6	3.1	56
73	Polypeptide modulators of TRPV1 produce analgesia without hyperthermia. *Marine Drugs*, **2013**, 11, 5100-15	6	51
72	Three-dimensional structure of toxin OSK1 from Orthochirus scrobiculosus scorpion venom. *Biochemistry*, **1997**, 36, 1223-32	3.2	47
71	Sea anemone peptide with uncommon β-hairpin structure inhibits acid-sensing ion channel 3 (ASIC3) and reveals analgesic activity. *Journal of Biological Chemistry*, **2013**, 288, 23116-27	5.4	46
70	Classification of spider neurotoxins using structural motifs by primary structure features. Single residue distribution analysis and pattern analysis techniques. *Toxicon*, **2005**, 46, 672-86	2.8	42
69	Bacterial production of latarcin 2a, a potent antimicrobial peptide from spider venom. *Protein Expression and Purification*, **2008**, 60, 89-95	2	41
68	Latarcins: versatile spider venom peptides. *Cellular and Molecular Life Sciences*, **2015**, 72, 4501-22	10.3	39
67	The universal algorithm of maturation for secretory and excretory protein precursors. *Toxicon*, **2007**, 49, 721-6	2.8	36
66	The mining of toxin-like polypeptides from EST database by single residue distribution analysis. *BMC Genomics*, **2011**, 12, 88	4.5	30
65	New Disulfide-Stabilized Fold Provides Sea Anemone Peptide to Exhibit Both Antimicrobial and TRPA1 Potentiating Properties. *Toxins*, **2017**, 9,	4.9	29
64	Linear antimicrobial peptides from Ectatomma quadridens ant venom. *Biochimie*, **2014**, 107 Pt B, 211-5	4.6	28

63	Acid-sensing ion channels and their modulators. *Biochemistry (Moscow)*, **2014**, 79, 1528-45	2.9	25
62	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
61	Lignan from thyme possesses inhibitory effect on ASIC3 channel current. *Journal of Biological Chemistry*, **2012**, 287, 32993-3000	5.4	25
60	Novel lynx spider toxin shares common molecular architecture with defense peptides from frog skin. *FEBS Journal*, **2011**, 278, 4382-93	5.7	25
59	Purification and characterization of biologically active peptides from spider venoms. *Methods in Molecular Biology*, **2010**, 615, 87-100	1.4	25
58	Peptide from Sea Anemone Affects Transient Receptor Potential Ankyrin-repeat 1 (TRPA1) Function and Produces Analgesic Effect. *Journal of Biological Chemistry*, **2017**, 292, 2992-3004	5.4	24
57	Novel insecticidal toxins from the venom of the spider Segestria florentina. *Toxicon*, **2002**, 40, 125-30	2.8	24
56	Antimicrobial peptide precursor structures suggest effective production strategies. *Recent Patents on Inflammation and Allergy Drug Discovery*, **2008**, 2, 58-63	5.4	23
55	TRPA1 Channel as a Regulator of Neurogenic Inflammation and Pain: Structure, Function, Role in Pathophysiology, and Therapeutic Potential of Ligands. *Biochemistry (Moscow)*, **2019**, 84, 101-118	2.9	22
54	TRPV1 activation power can switch an action mode for its polypeptide ligands. *PLoS ONE*, **2017**, 12, e0177077	3.7	22
53	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
52	Convenient nomenclature of cysteine-rich polypeptide toxins from sea anemones. *Peptides*, **2012**, 33, 240-4	3.8	18
51	A novel cysteine-rich antifungal peptide ToAMP4 from Taraxacum officinale Wigg. flowers. *Plant Physiology and Biochemistry*, **2013**, 70, 93-9	5.4	17
50	Analgesic Activity of Acid-Sensing Ion Channel 3 (ASIC3) Inhibitors: Sea Anemones Peptides Ugr9-1 and APETx2 versus Low Molecular Weight Compounds. *Marine Drugs*, **2018**, 16,	6	16
49	Structure and function of the potassium channel inhibitor from black scorpion venom. *Pure and Applied Chemistry*, **1996**, 68, 2105-2109	2.1	15
48	New APETx-like peptides from sea anemone Heteractis crispa modulate ASIC1a channels. *Peptides*, **2018**, 104, 41-49	3.8	14
47	Spider venom peptides for gene therapy of Chlamydia infection. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 5367-9	5.9	14
46	Comprehensive analysis of the venom gland transcriptome of the spider Dolomedes fimbriatus. *Scientific Data*, **2014**, 1, 140023	8.2	13

45	Proton-independent activation of acid-sensing ion channel 3 by an alkaloid, lindoldhamine, from Laurus nobilis. *British Journal of Pharmacology*, **2018**, 175, 924-937	8.6	12
44	Multiple Modulation of Acid-Sensing Ion Channel 1a by the Alkaloid Daurisoline. *Biomolecules*, **2019**, 9,	5.9	12
43	Antimicrobial peptide from spider venom inhibits Chlamydia trachomatis infection at an early stage. *Archives of Microbiology*, **2013**, 195, 173-9	3	12
42	Marine Cyclic Guanidine Alkaloids Monanchomycalin B and Urupocidin A Act as Inhibitors of TRPV1, TRPV2 and TRPV3, but not TRPA1 Receptors. *Marine Drugs*, **2017**, 15,	6	12
41	Analgesic effect of a polypeptide inhibitor of the TRPV1 receptor in noxious heat pain models. *Doklady Biochemistry and Biophysics*, **2009**, 424, 46-8	0.8	12
40	Water-soluble variant of human Lynx1 positively modulates synaptic plasticity and ameliorates cognitive impairment associated with α7-nAChR dysfunction. *Journal of Neurochemistry*, **2020**, 155, 45-61	6	11
39	Endogenous Isoquinoline Alkaloids Agonists of Acid-Sensing Ion Channel Type 3. *Frontiers in Molecular Neuroscience*, **2017**, 10, 282	6.1	11
38	M-type K+ current inhibition by a toxin fron the scorpion Buthus eupeus. *FEBS Letters*, **1996**, 384, 277-80	3.8	11
37	Endogenous Neuropeptide Nocistatin Is a Direct Agonist of Acid-Sensing Ion Channels (ASIC1, ASIC2 and ASIC3). *Biomolecules*, **2019**, 9,	5.9	10
36	Conversed mutagenesis of an inactive peptide to ASIC3 inhibitor for active sites determination. *Toxicon*, **2016**, 116, 11-6	2.8	10
35	Novel proline-hydroxyproline glycopeptides from the dandelion (Taraxacum officinale Wigg.) flowers: de novo sequencing and biological activity. *Plant Science*, **2015**, 238, 323-9	5.3	9
34	Animal toxins for channelopathy treatment. *Neuropharmacology*, **2018**, 132, 83-97	5.5	8
33	Alkaloid Lindoldhamine Inhibits Acid-Sensing Ion Channel 1a and Reveals Anti-Inflammatory Properties. *Toxins*, **2019**, 11,	4.9	7
32	Acupuncture alleviates acid- and purine-induced pain in rodents. *British Journal of Pharmacology*, **2020**, 177, 77-92	8.6	7
31	Identification of unusual peptides with new Cys frameworks in the venom of the cold-water sea anemone Cnidopus japonicus. *Scientific Reports*, **2017**, 7, 14534	4.9	6
30	Purification and cDNA cloning of an insecticidal protein from the venom of the scorpion Orthochirus scrobiculosus. *Toxicon*, **2000**, 38, 361-71	2.8	6
29	Peptide Blocker of Ion Channel TRPV1 Exhibits a Long Analgesic Effect in the Heat Stimulation Model. *Doklady Biochemistry and Biophysics*, **2020**, 493, 215-217	0.8	5
28	Animal, Herb, and Microbial Toxins for Structural and Pharmacological Study of Acid-Sensing Ion Channels. *Frontiers in Pharmacology*, **2020**, 11, 991	5.6	4

27	APETx-Like Peptides from the Sea Anemone , Diverse in Their Effect on ASIC1a and ASIC3 Ion Channels. *Toxins*, **2020**, 12,	4.9	4
26	Pilot production of the recombinant peptide toxin of Heteractis crispa as a potential analgesic by intein-mediated technology. *Protein Expression and Purification*, **2018**, 145, 71-76	2	4
25	Single mutation in peptide inhibitor of TRPV1 receptor changes its effect from hypothermic to hyperthermic level in animals. *Russian Journal of Bioorganic Chemistry*, **2017**, 43, 509-516	1	4
24	Cyto-Insectotoxin 1a from Lachesana tarabaevi Spider Venom Inhibits Chlamydia trachomatis Infection. *Probiotics and Antimicrobial Proteins*, **2012**, 4, 208-16	5.5	4
23	Sea Anemone Kunitz-Type Peptides Demonstrate Neuroprotective Activity in the 6-Hydroxydopamine Induced Neurotoxicity Model. *Biomedicines*, **2021**, 9,	4.8	4
22	TRPV1 Ion Channel: Structural Features, Activity Modulators, and Therapeutic Potential. *Biochemistry (Moscow)*, **2021**, 86, S50-S70	2.9	4
21	Tbo-IT1-New Inhibitor of Insect Calcium Channels Isolated from Spider Venom. *Scientific Reports*, **2015**, 5, 17232	4.9	3
20	A comparison of polypeptide compositions of individual Agelena orientalis spider venoms. *Russian Journal of Bioorganic Chemistry*, **2010**, 36, 73-80	1	3
19	Retinoic Acid-Differentiated Neuroblastoma SH-SY5Y Is an Accessible In Vitro Model to Study Native Human Acid-Sensing Ion Channels 1a (ASIC1a).. *Biology*, **2022**, 11,	4.9	3
18	Structural variability of DNA-containing Mg-pyrophosphate microparticles: optimized conditions to produce particles with desired size and morphology. *Journal of Biomolecular Structure and Dynamics* , **2019**, 37, 918-930	3.6	3
17	Refolding of disulfide containing peptides in fusion with thioredoxin. *Mendeleev Communications*, **2020**, 30, 214-216	1.9	2
16	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
15	Sevanol and Its Analogues: Chemical Synthesis, Biological Effects and Molecular Docking. *Pharmaceuticals*, **2020**, 13,	5.2	2
14	The Anemonia viridis Venom: Coupling Biochemical Purification and RNA-Seq for Translational Research. *Marine Drugs*, **2018**, 16,	6	2
13	Efficient transformation of the entomopathogenic fungus Lecanicillium muscarium by electroporation of germinated conidia. *Mycoscience*, **2019**, 60, 197-200	1.2	1
12	Polypeptide toxins from animal venoms. *Recent Patents on DNA & Gene Sequences*, **2007**, 1, 200-6		1
11	Probing temperature and capsaicin-induced activation of TRPV1 channel via computationally guided point mutations in its pore and TRP domains. *International Journal of Biological Macromolecules*, **2020**, 158, 1175-1175	7.9	1
10	TRPV1 Blocker HCRG21 Suppresses TNF- Production and Prevents the Development of Edema and Hypersensitivity in Carrageenan-Induced Acute Local Inflammation. *Biomedicines*, **2021**, 9,	4.8	1

9	Peptide Modulators of ASIC Channels of the Sea Anemone Urticina aff. coriacea (Cuvier, 1798) from the Sea of Okhotsk. *Russian Journal of Marine Biology*, **2018**, 44, 458-464	0.7	1
8	Effects of Novel Potential Analgesic Compounds on the Cardiovascular and Respiratory Systems. *Pharmaceutical Chemistry Journal*, **2018**, 52, 593-595	0.9	1
7	Lignans as Pharmacological Agents in Disorders Related to Oxidative Stress and Inflammation: Chemical Synthesis Approaches and Biological Activities. *International Journal of Molecular Sciences*, **2022**, 23, 6031	6.3	1
6	Human Three-Finger Protein Lypd6 Is a Negative Modulator of the Cholinergic System in the Brain. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 662227	5.7	0
5	Analgesic Activity of a Polypeptide Modulator of TRPV1 Receptors. *Pharmaceutical Chemistry Journal*, **2018**, 52, 213-215	0.9	
4	Peptidomics of Short Linear Cytolytic Peptides from Spider Venom55-70		
3	The Role of the C-terminal Intracellular Domain in Acid-Sensing Ion Channel 3 Functioning. *Journal of Evolutionary Biochemistry and Physiology*, **2021**, 57, 413-423	0.5	
2	Ribonucleic acid (RNA) condensation by thermal cycling with metal cations: yield of nanoparticles and their applicability for transfection. *Journal of Biomolecular Structure and Dynamics*, **2020**, 38, 3959-3971	3.6	
1	Influence of New Promising Analgesic Compounds on Locomotor Activity of Mice. *Pharmaceutical Chemistry Journal*, **2018**, 52, 700-703	0.9	