

Sergey A Kozlov

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.

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	Retinoic Acid-Differentiated Neuroblastoma SH-SY5Y Is an Accessible In Vitro Model to Study Native Human Acid-Sensing Ion Channels 1a (ASIC1a).. <i>Biology</i> , 2022 , 11,	4.9	3
79	Lignans as Pharmacological Agents in Disorders Related to Oxidative Stress and Inflammation: Chemical Synthesis Approaches and Biological Activities. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6031	6.3	1
78	The Role of the C-terminal Intracellular Domain in Acid-Sensing Ion Channel 3 Functioning. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2021 , 57, 413-423	0.5	
77	Sea Anemone Kunitz-Type Peptides Demonstrate Neuroprotective Activity in the 6-Hydroxydopamine Induced Neurotoxicity Model. <i>Biomedicines</i> , 2021 , 9,	4.8	4
76	TRPV1 Blocker HCRG21 Suppresses TNF- α Production and Prevents the Development of Edema and Hypersensitivity in Carrageenan-Induced Acute Local Inflammation. <i>Biomedicines</i> , 2021 , 9,	4.8	1
75	TRPV1 Ion Channel: Structural Features, Activity Modulators, and Therapeutic Potential. <i>Biochemistry (Moscow)</i> , 2021 , 86, S50-S70	2.9	4
74	Human Three-Finger Protein Lypd6 Is a Negative Modulator of the Cholinergic System in the Brain. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 662227	5.7	0
73	Refolding of disulfide containing peptides in fusion with thioredoxin. <i>Mendeleev Communications</i> , 2020 , 30, 214-216	1.9	2
72	Animal, Herb, and Microbial Toxins for Structural and Pharmacological Study of Acid-Sensing Ion Channels. <i>Frontiers in Pharmacology</i> , 2020 , 11, 991	5.6	4
71	Water-soluble variant of human Lynx1 positively modulates synaptic plasticity and ameliorates cognitive impairment associated with α -nAChR dysfunction. <i>Journal of Neurochemistry</i> , 2020 , 155, 45-61	6	11
70	APETx-Like Peptides from the Sea Anemone , Diverse in Their Effect on ASIC1a and ASIC3 Ion Channels. <i>Toxins</i> , 2020 , 12,	4.9	4
69	Probing temperature and capsaicin-induced activation of TRPV1 channel via computationally guided point mutations in its pore and TRP domains. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 1175-1175	7.9	1
68	Sevanol and Its Analogues: Chemical Synthesis, Biological Effects and Molecular Docking. <i>Pharmaceuticals</i> , 2020 , 13,	5.2	2
67	Peptide Blocker of Ion Channel TRPV1 Exhibits a Long Analgesic Effect in the Heat Stimulation Model. <i>Doklady Biochemistry and Biophysics</i> , 2020 , 493, 215-217	0.8	5
66	Ribonucleic acid (RNA) condensation by thermal cycling with metal cations: yield of nanoparticles and their applicability for transfection. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 3959-3971	3.6	
65	Acupuncture alleviates acid- and purine-induced pain in rodents. <i>British Journal of Pharmacology</i> , 2020 , 177, 77-92	8.6	7
64	Endogenous Neuropeptide Nocistatin Is a Direct Agonist of Acid-Sensing Ion Channels (ASIC1, ASIC2 and ASIC3). <i>Biomolecules</i> , 2019 , 9,	5.9	10

63	Alkaloid Lindoldhamine Inhibits Acid-Sensing Ion Channel 1a and Reveals Anti-Inflammatory Properties. <i>Toxins</i> , 2019 , 11,	4.9	7
62	TRPA1 Channel as a Regulator of Neurogenic Inflammation and Pain: Structure, Function, Role in Pathophysiology, and Therapeutic Potential of Ligands. <i>Biochemistry (Moscow)</i> , 2019 , 84, 101-118	2.9	22
61	Efficient transformation of the entomopathogenic fungus <i>Lecanicillium muscarium</i> by electroporation of germinated conidia. <i>Mycoscience</i> , 2019 , 60, 197-200	1.2	1
60	Multiple Modulation of Acid-Sensing Ion Channel 1a by the Alkaloid Daurisolone. <i>Biomolecules</i> , 2019 , 9,	5.9	12
59	Structural variability of DNA-containing Mg-pyrophosphate microparticles: optimized conditions to produce particles with desired size and morphology. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019 , 37, 918-930	3.6	3
58	Proton-independent activation of acid-sensing ion channel 3 by an alkaloid, lindoldhamine, from <i>Laurus nobilis</i> . <i>British Journal of Pharmacology</i> , 2018 , 175, 924-937	8.6	12
57	Pilot production of the recombinant peptide toxin of <i>Heteractis crispa</i> as a potential analgesic by intein-mediated technology. <i>Protein Expression and Purification</i> , 2018 , 145, 71-76	2	4
56	New APETx-like peptides from sea anemone <i>Heteractis crispa</i> modulate ASIC1a channels. <i>Peptides</i> , 2018 , 104, 41-49	3.8	14
55	Animal toxins for channelopathy treatment. <i>Neuropharmacology</i> , 2018 , 132, 83-97	5.5	8
54	Analgesic Activity of a Polypeptide Modulator of TRPV1 Receptors. <i>Pharmaceutical Chemistry Journal</i> , 2018 , 52, 213-215	0.9	
53	Peptide Modulators of ASIC Channels of the Sea Anemone <i>Urticina</i> aff. <i>coriacea</i> (Cuvier, 1798) from the Sea of Okhotsk. <i>Russian Journal of Marine Biology</i> , 2018 , 44, 458-464	0.7	1
52	Influence of New Promising Analgesic Compounds on Locomotor Activity of Mice. <i>Pharmaceutical Chemistry Journal</i> , 2018 , 52, 700-703	0.9	
51	Analgesic Activity of Acid-Sensing Ion Channel 3 (ASIC) Inhibitors: Sea Anemones Peptides Ugr9-1 and APETx2 versus Low Molecular Weight Compounds. <i>Marine Drugs</i> , 2018 , 16,	6	16
50	The <i>Anemonia viridis</i> Venom: Coupling Biochemical Purification and RNA-Seq for Translational Research. <i>Marine Drugs</i> , 2018 , 16,	6	2
49	Effects of Novel Potential Analgesic Compounds on the Cardiovascular and Respiratory Systems. <i>Pharmaceutical Chemistry Journal</i> , 2018 , 52, 593-595	0.9	1
48	Peptide from Sea Anemone Affects Transient Receptor Potential Ankyrin-repeat 1 (TRPA1) Function and Produces Analgesic Effect. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2992-3004	5.4	24
47	New Disulfide-Stabilized Fold Provides Sea Anemone Peptide to Exhibit Both Antimicrobial and TRPA1 Potentiating Properties. <i>Toxins</i> , 2017 , 9,	4.9	29
46	Single mutation in peptide inhibitor of TRPV1 receptor changes its effect from hypothermic to hyperthermic level in animals. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 509-516	1	4

45	Identification of unusual peptides with new Cys frameworks in the venom of the cold-water sea anemone <i>Cnidopus japonicus</i> . <i>Scientific Reports</i> , 2017 , 7, 14534	4.9	6
44	Marine Cyclic Guanidine Alkaloids Monanchomycalin B and Urupocidin A Act as Inhibitors of TRPV1, TRPV2 and TRPV3, but not TRPA1 Receptors. <i>Marine Drugs</i> , 2017 , 15,	6	12
43	Endogenous Isoquinoline Alkaloids Agonists of Acid-Sensing Ion Channel Type 3. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 282	6.1	11
42	TRPV1 activation power can switch an action mode for its polypeptide ligands. <i>PLoS ONE</i> , 2017 , 12, e0173777	3.9	22
41	Conversed mutagenesis of an inactive peptide to ASIC3 inhibitor for active sites determination. <i>Toxicon</i> , 2016 , 116, 11-6	2.8	10
40	Novel proline-hydroxyproline glycopeptides from the dandelion (<i>Taraxacum officinale</i> Wigg.) flowers: de novo sequencing and biological activity. <i>Plant Science</i> , 2015 , 238, 323-9	5.3	9
39	Latarcins: versatile spider venom peptides. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 4501-22	10.3	39
38	ETbo-IT1-New Inhibitor of Insect Calcium Channels Isolated from Spider Venom. <i>Scientific Reports</i> , 2015 , 5, 17232	4.9	3
37	Linear antimicrobial peptides from <i>Ectatomma quadridens</i> ant venom. <i>Biochimie</i> , 2014 , 107 Pt B, 211-5	4.6	28
36	Acid-sensing ion channels and their modulators. <i>Biochemistry (Moscow)</i> , 2014 , 79, 1528-45	2.9	25
35	Comprehensive analysis of the venom gland transcriptome of the spider <i>Dolomedes fimbriatus</i> . <i>Scientific Data</i> , 2014 , 1, 140023	8.2	13
34	Sea anemone peptide with uncommon hairpin structure inhibits acid-sensing ion channel 3 (ASIC3) and reveals analgesic activity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 23116-27	5.4	46
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> , 2013 , 280, 6247-61	5.7	19
32	Antimicrobial peptide from spider venom inhibits <i>Chlamydia trachomatis</i> infection at an early stage. <i>Archives of Microbiology</i> , 2013 , 195, 173-9	3	12
31	A novel cysteine-rich antifungal peptide ToAMP4 from <i>Taraxacum officinale</i> Wigg. flowers. <i>Plant Physiology and Biochemistry</i> , 2013 , 70, 93-9	5.4	17
30	Polypeptide modulators of TRPV1 produce analgesia without hyperthermia. <i>Marine Drugs</i> , 2013 , 11, 5100-15	6	51
29	Convenient nomenclature of cysteine-rich polypeptide toxins from sea anemones. <i>Peptides</i> , 2012 , 33, 240-4	3.8	18
28	Molecules to selectively target receptors for treatment of pain and neurogenic inflammation. <i>Recent Patents on Inflammation and Allergy Drug Discovery</i> , 2012 , 6, 35-45	5.4	25

27	Lignan from thyme possesses inhibitory effect on ASIC3 channel current. <i>Journal of Biological Chemistry</i> , 2012 , 287, 32993-3000	5.4	25
26	Cyto-Insectotoxin 1a from <i>Lachesana tarabaevi</i> Spider Venom Inhibits <i>Chlamydia trachomatis</i> Infection. <i>Probiotics and Antimicrobial Proteins</i> , 2012 , 4, 208-16	5.5	4
25	Spider venom peptides for gene therapy of <i>Chlamydia</i> infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 5367-9	5.9	14
24	Novel lynx spider toxin shares common molecular architecture with defense peptides from frog skin. <i>FEBS Journal</i> , 2011 , 278, 4382-93	5.7	25
23	The mining of toxin-like polypeptides from EST database by single residue distribution analysis. <i>BMC Genomics</i> , 2011 , 12, 88	4.5	30
22	Purification and characterization of biologically active peptides from spider venoms. <i>Methods in Molecular Biology</i> , 2010 , 615, 87-100	1.4	25
21	A comparison of polypeptide compositions of individual <i>Agelena orientalis</i> spider venoms. <i>Russian Journal of Bioorganic Chemistry</i> , 2010 , 36, 73-80	1	3
20	Cyanogen bromide cleavage of proteins in salt and buffer solutions. <i>Analytical Biochemistry</i> , 2010 , 407, 144-6	3.1	56
19	Molecular diversity of spider venom. <i>Biochemistry (Moscow)</i> , 2009 , 74, 1505-34	2.9	122
18	Analgesic effect of a polypeptide inhibitor of the TRPV1 receptor in noxious heat pain models. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 424, 46-8	0.8	12
17	Cyto-insectotoxins, a novel class of cytolytic and insecticidal peptides from spider venom. <i>Biochemical Journal</i> , 2008 , 411, 687-96	3.8	61
16	Analgesic compound from sea anemone <i>Heteractis crispa</i> is the first polypeptide inhibitor of vanilloid receptor 1 (TRPV1). <i>Journal of Biological Chemistry</i> , 2008 , 283, 23914-21	5.4	103
15	Bacterial production of laticin 2a, a potent antimicrobial peptide from spider venom. <i>Protein Expression and Purification</i> , 2008 , 60, 89-95	2	41
14	Antimicrobial peptide precursor structures suggest effective production strategies. <i>Recent Patents on Inflammation and Allergy Drug Discovery</i> , 2008 , 2, 58-63	5.4	23
13	Synthetic analogues of antimicrobial peptides from the venom of the Central Asian spider <i>Lachesana tarabaevi</i> . <i>Russian Journal of Bioorganic Chemistry</i> , 2007 , 33, 376-382	1	2
12	The universal algorithm of maturation for secretory and excretory protein precursors. <i>Toxicon</i> , 2007 , 49, 721-6	2.8	36
11	Polypeptide toxins from animal venoms. <i>Recent Patents on DNA & Gene Sequences</i> , 2007 , 1, 200-6		1
10	Laticins, antimicrobial and cytolytic peptides from the venom of the spider <i>Lachesana tarabaevi</i> (Zodariidae) that exemplify biomolecular diversity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 20983-20992	5.4	121

9	Classification of spider neurotoxins using structural motifs by primary structure features. Single residue distribution analysis and pattern analysis techniques. <i>Toxicon</i> , 2005 , 46, 672-86	2.8	42
8	A novel strategy for the identification of toxinlike structures in spider venom. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 59, 131-40	4.2	85
7	Novel insecticidal toxins from the venom of the spider <i>Segestria florentina</i> . <i>Toxicon</i> , 2002 , 40, 125-30	2.8	24
6	An ERG channel inhibitor from the scorpion <i>Buthus eupeus</i> . <i>Journal of Biological Chemistry</i> , 2001 , 276, 9868-76	5.4	78
5	Purification and cDNA cloning of an insecticidal protein from the venom of the scorpion <i>Orthochirus scrobiculosus</i> . <i>Toxicon</i> , 2000 , 38, 361-71	2.8	6
4	Three-dimensional structure of toxin OSK1 from <i>Orthochirus scrobiculosus</i> scorpion venom. <i>Biochemistry</i> , 1997 , 36, 1223-32	3.2	47
3	Structure and function of the potassium channel inhibitor from black scorpion venom. <i>Pure and Applied Chemistry</i> , 1996 , 68, 2105-2109	2.1	15
2	M-type K ⁺ current inhibition by a toxin from the scorpion <i>Buthus eupeus</i> . <i>FEBS Letters</i> , 1996 , 384, 277-80	3.8	11
1	Peptidomics of Short Linear Cytolytic Peptides from Spider Venom	55-70	