

Zakhar O Shenkarev

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86
papers

1,959
citations

26
h-index

40
g-index

99
ext. papers

2,242
ext. citations

3.9
avg, IF

4.29
L-index

#	Paper	IF	Citations
86	Conformation and mode of membrane interaction in cyclotides. Spatial structure of kalata B1 bound to a dodecylphosphocholine micelle. <i>FEBS Journal</i> , 2006 , 273, 2658-72	5.7	111
85	Lipid-protein nanodiscs for cell-free production of integral membrane proteins in a soluble and folded state: comparison with detergent micelles, bicelles and liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 349-58	3.8	80
84	Lipid-protein nanodiscs as reference medium in detergent screening for high-resolution NMR studies of integral membrane proteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5628-9	16.4	75
83	NMR structure and action on nicotinic acetylcholine receptors of water-soluble domain of human LYNX1. <i>Journal of Biological Chemistry</i> , 2011 , 286, 10618-27	5.4	68
82	1-(Phenylethynyl)pyrene and 9,10-Bis(phenylethynyl)anthracene, Useful Fluorescent Dyes for DNA Labeling: Excimer Formation and Energy Transfer. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 1298-1307	3.2	68
81	Molecular mechanism of action of hairpin antimicrobial peptide arenicin: oligomeric structure in dodecylphosphocholine micelles and pore formation in planar lipid bilayers. <i>Biochemistry</i> , 2011 , 50, 6255-65	3.2	63
80	NMR structural and dynamical investigation of the isolated voltage-sensing domain of the potassium channel KvAP: implications for voltage gating. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5630-7	16.4	59
79	Isolation, structure elucidation, and synergistic antibacterial activity of a novel two-component lantibiotic lichenicidin from <i>Bacillus licheniformis</i> VK21. <i>Biochemistry</i> , 2010 , 49, 6462-72	3.2	57
78	Recombinant expression, synthesis, purification, and solution structure of arenicin. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 360, 156-62	3.4	57
77	Divalent cation coordination and mode of membrane interaction in cyclotides: NMR spatial structure of ternary complex Kalata B7/Mn ²⁺ /DPC micelle. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 1246-56	4.2	52
76	NMR spatial structure of alpha-conotoxin Iml reveals a common scaffold in snail and snake toxins recognizing neuronal nicotinic acetylcholine receptors. <i>FEBS Letters</i> , 1999 , 444, 275-80	3.8	52
75	Lipid-protein nanoscale bilayers: a versatile medium for NMR investigations of membrane proteins and membrane-active peptides. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2140-1	16.4	51
74	Human Secreted Ly-6/uPAR Related Protein-1 (SLURP-1) Is a Selective Allosteric Antagonist of $\alpha 7$ Nicotinic Acetylcholine Receptor. <i>PLoS ONE</i> , 2016 , 11, e0149733	3.7	51
73	Selective (15)N-labeling and analysis of (13)C-(15)N J couplings as an effective tool for studying the structure and azide-tetrazole equilibrium in a series of tetrazolo[1,5-b][1,2,4]triazines and tetrazolo[1,5-a]pyrimidines. <i>Journal of Organic Chemistry</i> , 2010 , 75, 8487-97	4.2	44
72	A novel lipid transfer protein from the pea <i>Pisum sativum</i> : isolation, recombinant expression, solution structure, antifungal activity, lipid binding, and allergenic properties. <i>BMC Plant Biology</i> , 2016 , 16, 107	5.3	44
71	NMR structure of the channel-former zervamicin IIB in isotropic solvents. <i>FEBS Letters</i> , 2000 , 466, 333-6	3.8	42
70	Lipid-protein nanodiscs: possible application in high-resolution NMR investigations of membrane proteins and membrane-active peptides. <i>Biochemistry (Moscow)</i> , 2009 , 74, 756-65	2.9	41

69	Lipid-protein nanodiscs promote in vitro folding of transmembrane domains of multi-helical and multimeric membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 776-84	3.8	40
68	Spatial structure of zervamicin IIB bound to DPC micelles: implications for voltage-gating. <i>Biophysical Journal</i> , 2002 , 82, 762-71	2.9	40
67	Water-soluble LYNX1 residues important for interaction with muscle-type and/or neuronal nicotinic receptors. <i>Journal of Biological Chemistry</i> , 2013 , 288, 15888-99	5.4	38
66	Molecular insight into mechanism of antimicrobial action of the beta-hairpin peptide arenicin: specific oligomerization in detergent micelles. <i>Biopolymers</i> , 2008 , 89, 455-64	2.2	36
65	Oligonucleotides containing new fluorescent 1-phenylethynylpyrene and 9,10-bis(phenylethynyl)anthracene uridine-2'-carbamates: synthesis and properties. <i>Tetrahedron</i> , 2004 , 60, 4617-4626	2.4	35
64	Long-range ¹ H- ¹⁵ N J couplings providing a method for direct studies of the structure and azide-tetrazole equilibrium in a series of azido-1,2,4-triazines and azidopyrimidines. <i>Journal of Organic Chemistry</i> , 2013 , 78, 6975-82	4.2	32
63	Recombinant expression and solution structure of antimicrobial peptide aurelin from jellyfish <i>Aurelia aurita</i> . <i>Biochemical and Biophysical Research Communications</i> , 2012 , 429, 63-9	3.4	31
62	Molecular dynamics simulation of antimicrobial peptide arenicin-2: beta-hairpin stabilization by noncovalent interactions. <i>Biopolymers</i> , 2009 , 92, 143-55	2.2	31
61	Structural Insight into Specificity of Interactions between Nonconventional Three-finger Weak Toxin from <i>Naja kaouthia</i> (WTX) and Muscarinic Acetylcholine Receptors. <i>Journal of Biological Chemistry</i> , 2015 , 290, 23616-30	5.4	28
60	Three-Finger Proteins from the Ly6/uPAR Family: Functional Diversity within One Structural Motif. <i>Biochemistry (Moscow)</i> , 2017 , 82, 1702-1715	2.9	26
59	Bacterial expression, NMR, and electrophysiology analysis of chimeric short/long-chain alpha-neurotoxins acting on neuronal nicotinic receptors. <i>Journal of Biological Chemistry</i> , 2007 , 282, 24784-91	5.4	26
58	Human secreted proteins SLURP-1 and SLURP-2 control the growth of epithelial cancer cells via interactions with nicotinic acetylcholine receptors. <i>British Journal of Pharmacology</i> , 2018 , 175, 1973-1986	8.6	25
57	Secreted Isoform of Human Lynx1 (SLURP-2): Spatial Structure and Pharmacology of Interactions with Different Types of Acetylcholine Receptors. <i>Scientific Reports</i> , 2016 , 6, 30698	4.9	24
56	Recombinant production and solution structure of lipid transfer protein from lentil <i>Lens culinaris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013 , 439, 427-32	3.4	23
55	Antiamoebin I in methanol solution: rapid exchange between right-handed and left-handed 3(10)-helical conformations. <i>Chemistry and Biodiversity</i> , 2007 , 4, 1219-42	2.5	23
54	Lipid-Protein Nanodiscs Offer New Perspectives for Structural and Functional Studies of Water-Soluble Membrane-Active Peptides. <i>Acta Naturae</i> , 2014 , 6, 84-94	2.1	22
53	Ligand Binding Properties of the Lentil Lipid Transfer Protein: Molecular Insight into the Possible Mechanism of Lipid Uptake. <i>Biochemistry</i> , 2017 , 56, 1785-1796	3.2	21
52	Water-soluble variant of human Lynx1 induces cell cycle arrest and apoptosis in lung cancer cells via modulation of α 7 nicotinic acetylcholine receptors. <i>PLoS ONE</i> , 2019 , 14, e0217339	3.7	20

51	Caloric restriction triggers morphofunctional remodeling of astrocytes and enhances synaptic plasticity in the mouse hippocampus. <i>Cell Death and Disease</i> , 2020 , 11, 208	9.8	19
50	zFP538, a yellow fluorescent protein from coral, belongs to the DsRed subfamily of GFP-like proteins but possesses the unexpected site of fragmentation. <i>Biochemistry</i> , 2004 , 43, 4764-72	3.2	19
49	Human neuromodulator SLURP-1: bacterial expression, binding to muscle-type nicotinic acetylcholine receptor, secondary structure, and conformational heterogeneity in solution. <i>Biochemistry (Moscow)</i> , 2013 , 78, 204-11	2.9	18
48	Human SLURP-1 and SLURP-2 Proteins Acting on Nicotinic Acetylcholine Receptors Reduce Proliferation of Human Colorectal Adenocarcinoma HT-29 Cells. <i>Acta Naturae</i> , 2014 , 6, 60-66	2.1	18
47	Dimerization of the antimicrobial peptide arenicin plays a key role in the cytotoxicity but not in the antibacterial activity. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 482, 1320-1326	3.4	17
46	Central loop of non-conventional toxin WTX from <i>Naja kaouthia</i> is important for interaction with nicotinic acetylcholine receptors. <i>Toxicon</i> , 2016 , 119, 274-9	2.8	16
45	Towards universal approach for bacterial production of three-finger Ly6/uPAR proteins: Case study of cytotoxin I from cobra <i>N. oxiana</i> . <i>Protein Expression and Purification</i> , 2017 , 130, 13-20	2	16
44	Bacterial production and refolding from inclusion bodies of a "weak" toxin, a disulfide rich protein. <i>Biochemistry (Moscow)</i> , 2009 , 74, 1142-9	2.9	16
43	Spin-spin coupling constants ^{13}C - ^{15}N and ^1H - ^{15}N in the investigation of azido-tetrazole tautomerism in a series of 2-azidopyrimidines. <i>Russian Chemical Bulletin</i> , 2013 , 62, 521-528	1.7	15
42	Heterologous expression and solution structure of defensin from lentil <i>Lens culinaris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014 , 451, 252-7	3.4	14
41	Peptaibol antiamoebin I: spatial structure, backbone dynamics, interaction with bicelles and lipid-protein nanodiscs, and pore formation in context of barrel-stave model. <i>Chemistry and Biodiversity</i> , 2013 , 10, 838-63	2.5	14
40	Novel Antimicrobial Peptides from the Arctic Polychaeta Provide New Molecular Insight into Biological Role of the BRICHOS Domain. <i>Marine Drugs</i> , 2018 , 16,	6	14
39	Spider toxin inhibits gating pore currents underlying periodic paralysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4495-4500	11.5	13
38	Human SLURP-1 and SLURP-2 Proteins Acting on Nicotinic Acetylcholine Receptors Reduce Proliferation of Human Colorectal Adenocarcinoma HT-29 Cells. <i>Acta Naturae</i> , 2014 , 6, 60-6	2.1	13
37	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> , 2015 , 290, 492-504	5.4	12
36	Peptaibol zervamicin IIb structure and dynamics refinement from transhydrogen bond J couplings. <i>Biophysical Journal</i> , 2004 , 86, 3687-99	2.9	12
35	High stability of the hinge region in the membrane-active peptide helix of zervamicin: paramagnetic relaxation enhancement studies. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 325, 1099-105	3.4	12
34	Lipid-protein nanodiscs offer new perspectives for structural and functional studies of water-soluble membrane-active peptides. <i>Acta Naturae</i> , 2014 , 6, 84-94	2.1	12

33	Betaine π -Heterocyclic Carbene Interconversions of Quinazolin-4-One Imidazolium Mesomeric Betaines. Sulfur, Selenium, and Borane Adduct Formation. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 450-465	3.2	12
32	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
31	Marine antimicrobial peptide arenicin adopts a monomeric twisted β hairpin structure and forms low conductivity pores in zwitterionic lipid bilayers. <i>Peptide Science</i> , 2017 , 110, e23093	3	10
30	Synthesis of the [2H,15N]-labeled antiviral drug β riazavirine \square <i>Russian Chemical Bulletin</i> , 2011 , 60, 729-732 ^{1.7}		10
29	N-Terminal Fusion Tags for Effective Production of G-Protein-Coupled Receptors in Bacterial Cell-Free Systems. <i>Acta Naturae</i> , 2012 , 4, 58-64	2.1	10
28	Mambalgin-2 Induces Cell Cycle Arrest and Apoptosis in Glioma Cells via Interaction with ASIC1a. <i>Cancers</i> , 2020 , 12,	6.6	10
27	NMR investigation of the isolated second voltage-sensing domain of human Nav1.4 channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 493-506	3.8	9
26	Biosynthetic uniform ¹³ C, ¹⁵ N-labelling of zervamicin IIB. Complete ¹³ C and ¹⁵ N NMR assignment. <i>Journal of Peptide Science</i> , 2003 , 9, 817-26	2.1	9
25	Human secreted protein SLURP-1 abolishes nicotine-induced proliferation, PTEN down-regulation and α -nAChR expression up-regulation in lung cancer cells. <i>International Immunopharmacology</i> , 2020 , 82, 106303	5.8	8
24	N-Labeling and structure determination of adamantylated azolo-azines in solution. <i>Beilstein Journal of Organic Chemistry</i> , 2017 , 13, 2535-2548	2.5	6
23	Structure Elucidation and Functional Studies of a Novel β hairpin Antimicrobial Peptide from the Marine Polychaeta. <i>Marine Drugs</i> , 2020 , 18,	6	5
22	Recombinant production and structural studies of the human Lypd6 and Lypd6b proteins. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 644-652	1	5
21	Structural Diversity and Dynamics of Human Three-Finger Proteins Acting on Nicotinic Acetylcholine Receptors. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
20	CombLabel: rational design of optimized sequence-specific combinatorial labeling schemes. Application to backbone assignment of membrane proteins with low stability. <i>Journal of Biomolecular NMR</i> , 2019 , 73, 531-544	3	4
19	Crystallomycin revisited after 60 years: aspartocins B and C. <i>MedChemComm</i> , 2018 , 9, 667-675	5	3
18	Divide and conquer \square approach to the structural studies of multidomain ion channels by the example of isolated voltage sensing domains of human Kv2.1 and Nav1.4 channels. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 634-643	1	3
17	N-terminal fusion tags for effective production of g-protein-coupled receptors in bacterial cell-free systems. <i>Acta Naturae</i> , 2012 , 4, 58-64	2.1	3
16	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> , 2019 , 10, 953	5.6	2

15	Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp.*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18694-18703	16.4	2
14	Recombinant Production, Reconstruction in Lipid-Protein Nanodiscs, and Electron Microscopy of Full-Length β Subunit of Human Potassium Channel Kv7.1. <i>Biochemistry (Moscow)</i> , 2018 , 83, 562-573	2.9	2
13	Biochemical Basis of Skin Disease Mal de Meleda: SLURP-1 Mutants Differently Affect Keratinocyte Proliferation and Apoptosis. <i>Journal of Investigative Dermatology</i> , 2021 , 141, 2229-2237	4.3	2
12	Recombinant Production and Structure-Function Study of the Ts1 Toxin from the Brazilian Scorpion <i>Tityus serrulatus</i> . <i>Doklady Biochemistry and Biophysics</i> , 2019 , 484, 9-12	0.8	1
11	Bacterial Production and Structural Study of Human Neuromodulator Lynx2. <i>Russian Journal of Bioorganic Chemistry</i> , 2020 , 46, 1261-1269	1	1
10	Spatial structure and oligomerization of viscotoxin A3 in detergent micelles: Implication for mechanisms of ion channel formation and membrane lysis. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 585, 22-28	3.4	1
9	Antiviral drug Triazavirin, selectively labeled with H, C, and N stable isotopes. Synthesis and properties. <i>Chemistry of Heterocyclic Compounds</i> , 2021 , 57, 1-4	1.4	1
8	Innentitelbild: Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp. (Angew. Chem. 34/2021). <i>Angewandte Chemie</i> , 2021 , 133, 18498-18498	3.6	1
7	Dodecapeptide Cathelicidins of <i>Cetartiodactyla</i> : Structure, Mechanism of Antimicrobial Action, and Synergistic Interaction With Other Cathelicidins. <i>Frontiers in Microbiology</i> , 2021 , 12, 725526	5.7	1
6	Probing GFP Chromophore Analogs as Anti-HIV Agents Targeting LTR-III G-Quadruplex. <i>Biomolecules</i> , 2021 , 11,	5.9	1
5	SLURP-1 Controls Growth and Migration of Lung Adenocarcinoma Cells, Forming a Complex With α -nAChR and PDGFR/EGFR Heterodimer. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 739391	5.7	0
4	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
3	Cell-free Production of the Extracellular Domain of the Nicotinic Acetylcholine Receptor. <i>Acta Naturae</i> , 2009 , 1, 96-8	2.1	
2	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> , 2021 , 13, 134-139	2.1	
1	Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp.**. <i>Angewandte Chemie</i> , 2021 , 133, 18842-18851	3.6	