Dmitry A Dolgikh

List of Publications by Year
in descending order

68	1,537	304368	329751
papers	citations	22 h-index	37 g-index

69	69	69	1882
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Natively Unfolded Human Prothymosin Î± Adopts Partially Folded Collapsed Conformation at Acidic pHâ€. Biochemistry, 1999, 38, 15009-15016.	1.2	145
2	NMR Structure and Action on Nicotinic Acetylcholine Receptors of Water-soluble Domain of Human LYNX1. Journal of Biological Chemistry, 2011, 286, 10618-10627.	1.6	87
3	Structural insights into the proton pumping by unusual proteorhodopsin from nonmarine bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12631-12636.	3.3	83
4	Zn2+-Mediated Structure Formation and Compaction of the â€œNatively Unfoldedâ€•Human Prothymosin Î±. Biochemical and Biophysical Research Communications, 2000, 267, 663-668.	1.0	72
5	Expression, purification, and characterization of human enteropeptidase catalytic subunit in Escherichia coli. Protein Expression and Purification, 2003, 31, 133-139.	0.6	71
6	Human Secreted Ly-6/uPAR Related Protein-1 (SLURP-1) Is a Selective Allosteric Antagonist of Î±7 Nicotinic Acetylcholine Receptor. PLoS ONE, 2016, 11, e0149733.	1.1	65
7	Folding of circular permutants with decreased contact order: general trend balanced by protein stability 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2001, 314, 891-900.	2.0	55
8	Solid-state electron transport via cytochrome c depends on electronic coupling to electrodes and across the protein. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5556-5561.	3.3	55
9	Water-soluble LYNX1 Residues Important for Interaction with Muscle-type and/or Neuronal Nicotinic Receptors. Journal of Biological Chemistry, 2013, 288, 15888-15899.	1.6	48
10	A cytochrome c mutant with high electron transfer and antioxidant activities but devoid of apoptogenic effect. Biochemical Journal, 2002, 362, 749-754.	1.7	47
11	Neurotoxins from Snake Venoms and Î±-Conotoxin ImI Inhibit Functionally Active Ionotropic Î³-Aminobutyric Acid (GABA) Receptors. Journal of Biological Chemistry, 2015, 290, 22747-22758.	1.6	45
12	Generation of new TRAIL mutants DR5-A and DR5-B with improved selectivity to death receptor 5. Apoptosis: an International Journal on Programmed Cell Death, 2009, 14, 778-787.	2.2	41
13	A cytochrome c mutant with high electron transfer and antioxidant activities but devoid of apoptogenic effect. Biochemical Journal, 2002, 362, 749.	1.7	39
14	New insight into the mechanism of mitochondrial cytochrome c function. PLoS ONE, 2017, 12, e0178280.	1.1	39
15	Bacterial Expression, NMR, and Electrophysiology Analysis of Chimeric Short/Long-chain Î±-Neurotoxins Acting on Neuronal Nicotinic Receptors. Journal of Biological Chemistry, 2007, 282, 24784-24791.	1.6	38
16	Structural Insight into Specificity of Interactions between Nonconventional Three-finger Weak Toxin from Naja kaouthia (WTX) and Muscarinic Acetylcholine Receptors. Journal of Biological Chemistry, 2015, 290, 23616-23630.	1.6	37
17	Lynx1 and AÎ²1â€“42 bind competitively to multiple nicotinic acetylcholine receptor subtypes. Neurobiology of Aging, 2016, 46, 13-21.	1.5	32
18	Specific Membrane Binding of Neurotoxin II Can Facilitate Its Delivery to Acetylcholine Receptor. Biophysical Journal, 2009, 97, 2089-2097.	0.2	31

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19	Orientation-Dependent Kinetics of Heterogeneous Electron Transfer for CytochromecImmobilized on Gold:â€‰ Electrochemical Determination and Theoretical Prediction. Journal of Physical Chemistry C, 2007, 111, 12100-12105.	1.5	26
20	A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch. Angewandte Chemie - International Edition, 2019, 58, 11852-11859.	7.2	26
21	Strategy for improvement of enteropeptidase efficiency in tag removal processes. Protein Expression and Purification, 2011, 79, 191-196.	0.6	24
22	Folding Intermediate and Folding Nucleus for Iâ†'N and Uâ†'Iâ†'N Transitions in Apomyoglobin: Contributions by Conserved and Nonconserved Residues. Biophysical Journal, 2010, 98, 1694-1702.	0.2	23
23	Waterâ€soluble variant of human Lynx1 positively modulates synaptic plasticity and ameliorates cognitive impairment associated with Î±7â€nAChR dysfunction. Journal of Neurochemistry, 2020, 155, 45-61.	2.1	23
24	Proapoptotic activity of cytochrome c in living cells: effect of K72 substitutions and species differences. Molecular and Cellular Biochemistry, 2008, 314, 85-93.	1.4	22
25	A new hybrid protein for production of recombinant bacteriorhodopsin in Escherichia coli. Journal of Biotechnology, 2010, 147, 145-150.	1.9	22
26	Expression and chaperone-assisted refolding of a new cold-active lipase from Psychrobacter cryohalolentis K5T. Protein Expression and Purification, 2013, 91, 96-103.	0.6	22
27	How strong are side chain interactions in the folding intermediate?. Protein Science, 2009, 18, 2152-2159.	3.1	21
28	Overexpression and refolding of thioredoxin/TRAIL fusion from inclusion bodies and further purification of TRAIL after cleavage by enteropeptidase. Biotechnology Letters, 2007, 29, 1567-1573.	1.1	20
29	Cytotoxicity of albebetin oligomers depends on cross-Î²-sheet formation. FEBS Letters, 2006, 580, 2451-2457.	1.3	19
30	Central loop of non-conventional toxin WTX from Naja kaouthia is important for interaction with nicotinic acetylcholine receptors. Toxicon, 2016, 119, 274-279.	0.8	18
31	Death Receptors DR4 and DR5 Undergo Spontaneous and Ligand-Mediated Endocytosis and Recycling Regardless of the Sensitivity of Cancer Cells to TRAIL. Frontiers in Cell and Developmental Biology, 2021, 9, 733688.	1.8	17
32	Can grafting of an octapeptide improve the structure of a de novo protein?. FEBS Letters, 1998, 425, 101-104.	1.3	15
33	Combination of TRAIL with Bortezomib Shifted Apoptotic Signaling from DR4 to DR5 Death Receptor by Selective Internalization and Degradation of DR4. PLoS ONE, 2014, 9, e109756.	1.1	15
34	Influence of media composition on recombinant monoclonal IgA1 glycosylation analysed by lectin-based protein microarray and MALDI-MS. Journal of Biotechnology, 2020, 314-315, 34-40.	1.9	14
35	A minimum set of stable blocks for rational design of polypeptide chains. Biochimie, 2019, 160, 88-92.	1.3	13
36	Comparative Femtosecond Spectroscopy of Primary Photoreactions of Exiguobacterium sibiricum Rhodopsin and Halobacterium salinarum Bacteriorhodopsin. Journal of Physical Chemistry B, 2021, 125, 995-1008.	1.2	11

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37	Crystal structure of PMGL2 esterase from the hormone-sensitive lipase family with GCSAG motif around the catalytic serine. PLoS ONE, 2020, 15, e0226838.	1.1	10
38	New Strategy for High-Level Expression and Purification of Biologically Active Monomeric TGF-Î²1/C77S in Escherichia coli. Molecular Biotechnology, 2015, 57, 160-171.	1.3	9
39	Chemotherapeutic Agents Sensitize Resistant Cancer Cells to the DR5-Specific Variant DR5-B More Efficiently Than to TRAIL by Modulating the Surface Expression of Death and Decoy Receptors. Cancers, 2020, 12, 1129.	1.7	9
40	The de novo protein with grafted biological function: transferring of interferon blast-transforming activity to albebetin. Protein Engineering, Design and Selection, 1996, 9, 195-201.	1.0	8
41	Structural and Dynamic â€œPortraitsâ€•of Recombinant and Native Cytotoxin I from Naja oxiana: How Close Are They?. Biochemistry, 2017, 56, 4468-4477.	1.2	8
42	Engineering of Thermal Stability in a Cold-Active Oligo-1,6-Glucosidase from Exiguobacterium sibiricum with Unusual Amino Acid Content. Biomolecules, 2021, 11, 1229.	1.8	8
43	Structure and stability of recombinant protein depend on the extra N-terminal methionine residue: S6 permutein from direct and fusion expression systems. BBA - Proteins and Proteomics, 1999, 1432, 324-332.	2.1	7
44	Amphiphilic Poly(N-vinylpyrrolidone) Nanoparticles Conjugated with DR5-Specific Antitumor Cytokine DR5-B for Targeted Delivery to Cancer Cells. Pharmaceutics, 2021, 13, 1413.	2.0	7
45	Complex Kinetics of the Electron Transfer between the Photoactive Redox Label TUPS and the Heme of Cytochrome c. Journal of Chemical Information and Modeling, 2005, 45, 1520-1526.	2.5	6
46	Production of anti TNF-Î± antibodies in eukaryotic cells using different combinations of vectors carrying heavy and light chains. Cytotechnology, 2015, 67, 761-772.	0.7	6
47	Genetically Modified DR5-Specific TRAIL Variant DR5-B Revealed Dual Antitumor and Protumoral Effect in Colon Cancer Xenografts and an Improved Pharmacokinetic Profile. Translational Oncology, 2020, 13, 100762.	1.7	6
48	Structural and Biochemical Characterization of a Cold-Active PMGL3 Esterase with Unusual Oligomeric Structure. Biomolecules, 2021, 11, 57.	1.8	6
49	GFPâ€“Margatoxin, a Genetically Encoded Fluorescent Ligand to Probe Affinity of Kv1.3 Channel Blockers. International Journal of Molecular Sciences, 2022, 23, 1724.	1.8	6
50	Multiple Mutations in the Non-Ordered Red Î©-Loop Enhance the Membrane-Permeabilizing and Peroxidase-like Activity of Cytochrome c. Biomolecules, 2022, 12, 665.	1.8	6
51	A new approach to artificial and modified proteins: theory-based design, synthesis in a cell-free system and fast testing of structural properties by radiolabels. Protein Engineering, Design and Selection, 1994, 7, 1041-1052.	1.0	5
52	An efficient method for expression in Escherichia coli and purification of the extracellular ligand binding domain of the human TGFÎ² type II receptor. Journal of Biotechnology, 2010, 148, 113-118.	1.9	5
53	Heterogeneous catalysis on the phage surface: Display of active human enteropeptidase. Biochimie, 2013, 95, 2076-2081.	1.3	5
54	The Molten Globule State of a Globular Protein in a Cell Is More or Less Frequent Case Rather than an Exception. Molecules, 2022, 27, 4361.	1.7	5

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55	Crystal Structure of the N112A Mutant of the Light-Driven Sodium Pump KR2. Crystals, 2020, 10, 496.	1.0	4
56	The Kinetics of Amyloid Fibril Formation by de Novo Protein Albebetin and Its Mutant Variants. Biomolecules, 2020, 10, 241.	1.8	4
57	Amino Acid Substitutions in the Non-Ordered â„¦-Loop 70â€“85 Affect Electron Transfer Function and Secondary Structure of Mitochondrial Cytochrome c. Crystals, 2021, 11, 973.	1.0	4
58	Features, modulation and analysis of glycosylation patterns of therapeutic recombinant immunoglobulin A. Biotechnology and Genetic Engineering Reviews, 2022, 38, 247-269.	2.4	4
59	Bispecific Antibodies for IFN-Î² Delivery to ErbB2+ Tumors. Biomolecules, 2021, 11, 1915.	1.8	4
60	Dissecting structural basis of the unique substrate selectivity of human enteropeptidase catalytic subunit. Journal of Biomolecular Structure and Dynamics, 2012, 30, 62-73.	2.0	3
61	Lysine 72 substitutions differently affect lipid membrane permeabilizing and proapoptotic activities of horse heart cytochrome c. Biochemical and Biophysical Research Communications, 2021, 548, 74-77.	1.0	3
62	Optimized Heterologous Expression and Efficient Purification of a New TRAIL-Based Antitumor Fusion Protein SRHâ€“DR5-B with Dual VEGFR2 and DR5 Receptor Specificity. International Journal of Molecular Sciences, 2022, 23, 5860.	1.8	3
63	Protein engineering ofDe novo protein with predesigned structure and activity. Applied Biochemistry and Biotechnology, 1996, 61, 85-96.	1.4	2
64	Effects of Succinic Acid Supplementation on Stable Cell Line Growth, Aggregation, and IgG and IgA Production. Current Pharmaceutical Biotechnology, 2020, 21, 990-996.	0.9	2
65	A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch. Angewandte Chemie, 2019, 131, 11978-11985.	1.6	1
66	InnenrÃ¼cktitelbild: A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10	1.6	0
67	Kinetics and Energetics of Intramolecular Electron Transfer in Single-Point Labeled TUPS-Cytochrome c Derivatives. Molecules, 2021, 26, 6976.	1.7	0
68	Editorial for the Special Issue: â€œState-of-Art in Protein Engineeringâ€. Biomolecules, 2022, 12, 966.	1.8	0