Alexander Ksenofontov

List of Publications by Year
in descending order

78	1,179	489802 18	511568 30
papers	citations	h-index	g-index

82	82	82	1113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interaction of tumor and normal blood cells with ethylene oxide and propylene oxide block copolymers. FEBS Letters, 1999, 446, 194-198.	1.3	92
2	In Situ Spatial Organization of Potato Virus A Coat Protein Subunits as Assessed by Tritium Bombardment. Journal of Virology, 2001, 75, 9696-9702.	1.5	80
3	Structural Analysis of Influenza A Virus Matrix Protein M1 and Its Self-Assemblies at Low pH. PLoS ONE, 2013, 8, e82431.	1.1	60
4	The in situ spatial arrangement of the influenza A virus matrix protein M1 assessed by tritium bombardment. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7827-7830.	3.3	59
5	Pluronic L61 Accelerates Flipâ€“Flop and Transbilayer Doxorubicin Permeation. Chemistry - A European Journal, 2003, 9, 3930-3936.	1.7	58
6	Increase in the specific radioactivity of tritium-labeled compounds obtained by tritium thermal activation method. Radiochimica Acta, 2012, 100, 401-408.	0.5	52
7	Partially Disordered Structure in Intravirus Coat Protein of Potyvirus Potato Virus A. PLoS ONE, 2013, 8, e67830.	1.1	43
8	Interaction of influenza A virus M1 matrix protein with caspases. Biochemistry (Moscow), 2002, 67, 534-539.	0.7	35
9	Thiamine induces long-term changes in amino acid profiles and activities of 2-oxoglutarate and 2-oxoadipate dehydrogenases in rat brain. Biochemistry (Moscow), 2017, 82, 723-736.	0.7	28
10	Influenza virus Matrix Protein M1 preserves its conformation with pH, changing multimerization state at the priming stage due to electrostatics. Scientific Reports, 2017, 7, 16793.	1.6	25
11	Spatial structure peculiarities of influenza A virus matrix M1 protein in an acidic solution that simulates the internal lysosomal medium. FEBS Journal, 2011, 278, 4905-4916.	2.2	24
12	Tritium planigraphy study of structural alterations in the coat protein of Potatoâ€ƒvirusâ€ƒX induced by binding of its triple gene blockâ€ƒ1 protein to virions. FEBS Journal, 2009, 276, 7006-7015.	2.2	23
13	Analysis of free amino acids in mammalian brain extracts. Biochemistry (Moscow), 2017, 82, 1183-1192.	0.7	22
14	Neutrophils as a source of branched-chain, aromatic and positively charged free amino acids. Cell Adhesion and Migration, 2019, 13, 98-105.	1.1	22
15	Noncovalent Adducts of Poly(ethylene glycols) with Proteins. Bioconjugate Chemistry, 2000, 11, 22-29.	1.8	21
16	Determination of concentration and aggregate size in influenza virus preparations from true UV absorption spectra. Molecular Biology, 2006, 40, 152-158.	0.4	21
17	The In Situ Structural Characterization of the Influenza A Virus Matrix M1 Protein within a Virion. Protein and Peptide Letters, 2009, 16, 1407-1413.	0.4	21
18	Neutrophils Release Metalloproteinases during Adhesion in the Presence of Insulin, but Cathepsin G in the Presence of Glucagon. Mediators of Inflammation, 2018, 2018, 1-9.	1.4	21

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19	Positive correlation between rat brain glutamate concentrations and mitochondrial 2-oxoglutarate dehydrogenase activity. Analytical Biochemistry, 2018, 552, 100-109.	1.1	18
20	Cross-linking method using pentaepoxide for improving bovine and porcine bioprosthetic pericardia: A multiparametric assessment study. Materials Science and Engineering C, 2021, 118, 111473.	3.8	18
21	Delayed Influence of Spinal Cord Injury on the Amino Acids of NOâ€¢ Metabolism in Rat Cerebral Cortex Is Attenuated by Thiamine. Frontiers in Medicine, 2017, 4, 249.	1.2	17
22	Influenza a Hemagglutinin C-terminal Anchoring Peptide: Identification and Mass Spectrometric Study. Protein and Peptide Letters, 2004, 11, 385-391.	0.4	17
23	Tritium planigraphy comparative structural study of tobacco mosaic virus and its mutant with altered host specificity. FEBS Journal, 2003, 270, 3300-3308.	0.2	16
24	Influenza virus hemagglutinin spike neck architectures and interaction with model enzymes evaluated by MALDI-TOF mass spectrometry and bioinformatics tools. Virus Research, 2011, 160, 294-304.	1.1	16
25	Thermal conversion of filamentous potato virus X into spherical particles with different properties from virions. FEBS Letters, 2016, 590, 1543-1551.	1.3	16
26	Severe Spinal Cord Injury in Rats Induces Chronic Changes in the Spinal Cord and Cerebral Cortex Metabolism, Adjusted by Thiamine That Improves Locomotor Performance. Frontiers in Molecular Neuroscience, 2021, 14, 620593.	1.4	16
27	Analysis of the role of the coat protein Nâ€terminal segment in Potato virus X virion stability and functional activity. Molecular Plant Pathology, 2012, 13, 38-45.	2.0	15
28	Investigation of the complex antibiotic INA-5812. Russian Journal of Bioorganic Chemistry, 2016, 42, 664-671.	0.3	14
29	Quantification of Rat Brain Amino Acids: Analysis of the Data Consistency. Current Analytical Chemistry, 2016, 12, 349-356.	0.6	14
30	Studying Liposomes by Tritium Bombardment. Bioscience Reports, 2001, 21, 711-718.	1.1	13
31	Solution Structure, Self-Assembly, and Membrane Interactions of the Matrix Protein from Newcastle Disease Virus at Neutral and Acidic pH. Journal of Virology, 2019, 93, .	1.5	13
32	Cold co-extraction of hemagglutinin and matrix M1 protein from influenza virus A by a combination of non-ionic detergents allows for visualization of the raft-like nature of the virus envelope. Archives of Virology, 2008, 153, 1977-1980.	0.9	12
33	Lysozyme-surfactant adsorption at the aqueous-air and aqueous-organic liquid interfaces as studied by tritium probe. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 537, 351-360.	2.3	12
34	Heating-induced transition of Potyvirus Potato Virus A coat protein into Î²-structure. Journal of Biomolecular Structure and Dynamics, 2016, 34, 250-258.	2.0	11
35	Self-organization of lysozymeâ€"Ionic surfactant complexes at the aqueous-air interface as studied by tritium bombardment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 1-8.	2.3	11
36	Hypoxic Adaptation of Mitochondrial Metabolism in Rat Cerebellum Decreases in Pregnancy. Cells, 2020, 9, 139.	1.8	11

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37	Nonequilibrium processes in reactions of hot tritium atoms with cooled solid targets. Influence of the atomizer temperature on formation of labeled substances. Radiochemistry, 2007, 49, 186-189.	0.2	10
38	Isolated Potato Virus A coat protein possesses unusual properties and forms different short virus-like particles. Journal of Biomolecular Structure and Dynamics, 2018, 36, 1728-1738.	2.0	10
39	Physiological and Biochemical Markers of the Sex-Specific Sensitivity to Epileptogenic Factors, Delayed Consequences of Seizures and Their Response to Vitamins B1 and B6 in a Rat Model. Pharmaceuticals, 2021, 14, 737.	1.7	10
40	The alpha helix 1 from the first conserved region of HIV1 gp120 is reconstructed in the short NQ21 peptide. Archives of Biochemistry and Biophysics, 2018, 638, 66-75.	1.4	9
41	Structural peculiarities of lysozyme â€“ PLURONIC complexes at the aqueous-air and liquid-liquid interfaces and in the bulk of aqueous solution. International Journal of Biological Macromolecules, 2020, 158, 721-731.	3.6	8
42	The Cytoplasmic Tail of Influenza A Virus Hemagglutinin and Membrane Lipid Composition Change the Mode of M1 Protein Association with the Lipid Bilayer. Membranes, 2021, 11, 772.	1.4	8
43	Acute Prenatal Hypoxia in Rats Affects Physiology and Brain Metabolism in the Offspring, Dependent on Sex and Gestational Age. International Journal of Molecular Sciences, 2022, 23, 2579.	1.8	8
44	A model for the study of the mechanism of a low pH-induced interaction of the virus fusion proteins and cell membranes. Bioscience Reports, 1991, 11, 131-137.	1.1	7
45	Covalent chromatography of influenza virus membrane M1 protein on activated thiopropyl Sepharose-6B. Biomedical Applications, 1998, 706, 83-89.	1.7	7
46	Studying the spatial organization of membrane proteins by means of tritium stratigraphy: bacteriorhodopsin in purple membrane. Bioelectrochemistry, 2002, 56, 147-149.	2.4	7
47	Atomic tritium as a surface nanoprobe in a structural investigation of molecular assemblies. Materials Science and Engineering C, 2003, 23, 797-802.	3.8	7
48	Quantitation of the glycoprotein spike area on the surface of enveloped viruses. Molecular Biology, 2008, 42, 973-975.	0.4	7
49	Surface characterization of the thermal remodeling helical plant virus. PLoS ONE, 2019, 14, e0216905.	1.1	7
50	Conformational Differences between Native and Recombinant Horseradish Peroxidase Revealed by Tritium Planigraphy. Biochemistry (Moscow), 2003, 68, 1225-1230.	0.7	6
51	Intrinsically unstructured regions in the C domain of the influenza virus M1 protein. Molecular Biology, 2011, 45, 634-640.	0.4	6
52	Characterization of Tobacco Mosaic Virus Virions and Repolymerized Coat Protein Aggregates in Solution by Small-Angle X-Ray Scattering. Biochemistry (Moscow), 2020, 85, 310-317.	0.7	6
53	Increasing Inhibition of the Rat Brain 2-Oxoglutarate Dehydrogenase Decreases Glutathione Redox State, Elevating Anxiety and Perturbing Stress Adaptation. Pharmaceuticals, 2022, 15, 182.	1.7	6
54	Delayed Impact of 2-Oxoadipate Dehydrogenase Inhibition on the Rat Brain Metabolism Is Linked to Protein Glutarylation. Frontiers in Medicine, 0, 9, .	1.2	6

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55	Isolation of the Influenza A HA2 C-terminal segment by combination of nonionic detergents. Advances in Experimental Medicine and Biology, 2009, 611, 311-312.	0.8	5
56	Bovine jugular vein conduit: What affects its elastomechanical properties and thermostability?. Journal of Biomedical Materials Research - Part A, 2021, , .	2.1	5
57	Structural properties of potexvirus coat proteins detected by optical methods. Biochemistry (Moscow), 2016, 81, 1522-1530.	0.7	4
58	Influence of Carbon Material Supports on the Efficiency of the Isotope Exchange between Dalargine and Tritium. Radiochemistry, 2019, 61, 66-72.	0.2	4
59	Neutrophil Adhesion and the Release of the Free Amino Acid Hydroxylysine. Cells, 2021, 10, 563.	1.8	4
60	Inhibitor of Hyaluronic Acid Synthesis 4-Methylumbelliferone Suppresses the Secretory Processes That Ensure the Invasion of Neutrophils into Tissues and Induce Inflammation. Biomedicines, 2022, 10, 314.	1.4	4
61	Study of the amino acid fraction of dry mumijo extract. Pharmaceutical Chemistry Journal, 1998, 32, 103-108.	0.3	3
62	Removal of Antimicrobial Peptides from Aqueous Solutions Using Carbon Nanotubes. Nanotechnologies in Russia, 2018, 13, 443-447.	0.7	3
63	Structure of Potato Virus A Coat Protein Particles and Their Dissociation. Molecular Biology, 2018, 52, 913-921.	0.4	3
64	The Structure of the Potato Virus A Particles Elucidated by Small Angle X-Ray Scattering and Complementary Techniques. Biochemistry (Moscow), 2021, 86, 230-240.	0.7	3
65	Thermal remodelling of Alternanthera mosaic virus virions and virus-like particles into protein spherical particles. PLoS ONE, 2021, 16, e0255378.	1.1	3
66	Inhibition of Neutrophil Secretion Upon Adhesion as a Basis for the Anti-Inflammatory Effect of the Tricyclic Antidepressant Imipramine. Frontiers in Pharmacology, 2021, 12, 709719.	1.6	3
67	Inhibition of 2-Oxoglutarate Dehydrogenase as a Chemical Model of Acute Hypobaric Hypoxia. Frontiers in Medicine, 2021, 8, 751639.	1.2	3
68	Genes Responsible for H2S Production and Metabolism Are Involved in Learning and Memory in Drosophila melanogaster. Biomolecules, 2022, 12, 751.	1.8	3
69	Comparative Study of Reaction of Atomic Tritium with Glucosamine and Amino Acids. Radiochemistry, 2005, 47, 308-310.	0.2	2
70	Estimation of the evolutionary stability of the Influenza A virus: Prediction of variable regions in the domain structure of the M1 protein. Moscow University Biological Sciences Bulletin, 2010, 65, 221-223.	0.1	2
71	Bioprosthetic xenopericardium preserved with di- and penta-epoxy compounds: molecular cross-linking mechanisms, surface features and mechanical properties. Patologiya Krovoobrashcheniya I Kardiokhirurgiya, 2018, 22, 56.	0.5	2
72	Structural peculiarities of lysozyme-graphene oxide adsorption complexes. Fullerenes Nanotubes and Carbon Nanostructures, 2022, 30, 99-105.	1.0	2

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73	Bacteriorhodopsin. Correspondence of the photocycle and electrogenesis with sites of the molecule. Biochemistry (Moscow), 2004, 69, 1407-1409.	0.7	1
74	Isolation of Influenza Virus A Hemagglutinin C-Terminal Domain by Hemagglutinin Proteolysis in Octylglucoside Micelles. Protein and Peptide Letters, 2006, 13, 907-913.	0.4	1
75	Binding of chloroaurate to polytyrosine-PEG micelles leads to an anti-Turkevich pattern of reduction. Soft Matter, 2021, 17, 2711-2724.	1.2	1
76	Analysis of Content of 2-Oxoacids in Rat Brain Extracts Using High-Performance Liquid Chromatography. Biochemistry (Moscow), 2022, 87, 356-365.	0.7	1
77	Administration of Phosphonate Inhibitors of Dehydrogenases of 2-Oxoglutarate and 2-Oxoadipate to Rats Elicits Target-Specific Metabolic and Physiological Responses. Frontiers in Chemistry, 0, 10, .	1.8	1
78	Title is missing!. Molecular Biology, 2001, 35, 426-430.	0.4	0