Olga Karpova

List of Publications by Year
in descending order

90 papers	1,768 citations	304743 22 h-index	315739 38 g-index
94 all docs	94 docs citations	94 times ranked	1053 citing authors

#	Article	IF	Citations
1	Vaccine Candidate Against COVID-19 Based on Structurally Modified Plant Virus as an Adjuvant. Frontiers in Microbiology, 2022, 13, 845316.	3.5	8
2	Designing Stable Bacillus anthracis Antigens with a View to Recombinant Anthrax Vaccine Development. Pharmaceutics, 2022, 14, 806.	4.5	5
3	Charge mechanism of low-frequency stimulated Raman scattering on viruses. Physical Review A, 2022, 105, .	2.5	1
4	Structurally Modified Plant Viruses and Bacteriophages with Helical Structure. Properties and Applications. Biochemistry (Moscow), 2022, 87, 548-558.	1.5	1
5	Two approaches for the stabilization of <i>Bacillus anthracis</i> recombinant protective antigen. Human Vaccines and Immunotherapeutics, 2021, 17, 560-565.	3.3	10
6	Stimulated Low-Frequency Raman Scattering in Brome Mosaic Virus. Journal of Russian Laser Research, 2021, 42, 106-113.	0.6	5
7	Novel antigen panel for modern broad-spectrum recombinant rotavirus A vaccine. Clinical and Experimental Vaccine Research, 2021, 10, 123.	2.2	1
8	Thermal remodelling of Alternanthera mosaic virus virions and virus-like particles into protein spherical particles. PLoS ONE, 2021, 16, e0255378.	2.5	3
9	Green Synthesis of Silver Nanoparticles with the Tobacco Mosaic Virus. Reviews and Advances in Chemistry, 2021, 11, 189-196.	0.5	1
10	The Effect of Chilling on the Photosynthetic Apparatus of Microalga Lobosphaera incisa IPPAS C-2047. Biochemistry (Moscow), 2021, 86, 1590-1598.	1.5	2
11	Various Adjuvants Effect on Immunogenicity of Puumala Virus Vaccine. Frontiers in Cellular and Infection Microbiology, 2020, 10, 545371.	3.9	10
12	Phosphorus Feast and Famine in Cyanobacteria: Is Luxury Uptake of the Nutrient Just a Consequence of Acclimation to Its Shortage?. Cells, 2020, 9, 1933.	4.1	23
13	A Recombinant Rotavirus Antigen Based on the Coat Protein of Alternanthera Mosaic Virus. Molecular Biology, 2020, 54, 243-248.	1.3	1
14	Plant virus particles with various shapes as potential adjuvants. Scientific Reports, 2020, 10, 10365.	3.3	31
15	Stress-induced changes in the ultrastructure of the photosynthetic apparatus of green microalgae. Protoplasma, 2019, 256, 261-277.	2.1	19
16	Vaccines against anthrax based on recombinant protective antigen: problems and solutions. Expert Review of Vaccines, 2019, 18, 813-828.	4.4	17
17	Stimulated Low-Frequency Scattering of Light in an Aqueous Suspension of the Tobacco Mosaic Virus. JETP Letters, 2019, 109, 578-583.	1.4	10
18	Surface characterization of the thermal remodeling helical plant virus. PLoS ONE, 2019, 14, e0216905.	2.5	7

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19	Surface Charge Mapping on Virions and Virus-Like Particles of Helical Plant Viruses. Acta Naturae, 2019, 11, 73-78.	1.7	12
20	On the Origin of a Low Intensity Microwave Irradiation Effect on Tobacco Mosaic Virus Activity. , 2019, , .		0
21	A new subarctic strain of Tetradesmus obliquusâ€”part I: identification and fatty acid profiling. Journal of Applied Phycology, 2018, 30, 2737-2750.	2.8	17
22	Data in support of toxicity studies of structurally modified plant virus to safety assessment. Data in Brief, 2018, 21, 1504-1507.	1.0	14
23	Spherical particles derived from TMV virions enhance the protective properties of the rabies vaccine. Data in Brief, 2018, 21, 742-745.	1.0	11
24	Laser excitation of gigahertz vibrations in Cauliflower mosaic virusesâ€™ suspension. Laser Physics Letters, 2018, 15, 095603.	1.4	17
25	Assessment of structurally modified plant virus as a novel adjuvant in toxicity studies. Regulatory Toxicology and Pharmacology, 2018, 97, 127-133.	2.7	19
26	<i>Alternanthera mosaic potexvirus</i>: Several Features, Properties, and Application. Advances in Virology, 2018, 2018, 1-11.	1.1	5
27	Study of rubella candidate vaccine based on a structurally modified plant virus. Antiviral Research, 2017, 144, 27-33.	4.1	26
28	Chimeric Virus as a Source of the Potato Leafroll Virus Antigen. Molecular Biotechnology, 2017, 59, 469-481.	2.4	3
29	Rotavirus Vaccines: New Strategies and Approaches. Moscow University Biological Sciences Bulletin, 2017, 72, 169-178.	0.7	5
30	Stimulated low-frequency Raman scattering in plant virus suspensions. Journal of Physics: Conference Series, 2017, 918, 012041.	0.4	2
31	Comparative Study of Thermal Remodeling of Viruses with Icosahedral and Helical Symmetry. Moscow University Biological Sciences Bulletin, 2017, 72, 179-183.	0.7	5
32	Structure and properties of virions and virus-like particles derived from the coat protein of Alternanthera mosaic virus. PLoS ONE, 2017, 12, e0183824.	2.5	16
33	DEVELOPMENT OF AVIAN INFLUENZA VACCINE ON THE BASIS OF STRUCTURALLY MODIFIED PLANT VIRUS. Sel'skokhozyaistvennaya Biologiya, 2017, 52, 731-738.	0.3	3
34	Translational Cross-Activation of the Encapsidated RNA of Potexviruses. Acta Naturae, 2017, 9, 52-57.	1.7	6
35	Translational Cross-Activation of the Encapsidated RNA of Potexviruses. Acta Naturae, 2017, 9, 52-57.	1.7	2
36	Structural properties of potexvirus coat proteins detected by optical methods. Biochemistry (Moscow), 2016, 81, 1522-1530.	1.5	4

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37	Stimulated low-frequency Raman scattering in viruses. , 2016, , .		0
38	Stimulated low-frequency Raman scattering in a suspension of tobacco mosaic virus. Laser Physics Letters, 2016, 13, 085701.	1.4	19
39	Biosafety of plant viruses for human and animals. Moscow University Biological Sciences Bulletin, 2016, 71, 128-134.	0.7	23
40	Study of the potexvirus ribonucleoproteins signal of assembly. Moscow University Biological Sciences Bulletin, 2016, 71, 45-49.	0.7	0
41	Thermal conversion of filamentous potato virus X into spherical particles with different properties from virions. FEBS Letters, 2016, 590, 1543-1551.	2.8	16
42	The key role of rubella virus glycoproteins in the formation of immune response, and perspectives on their use in the development of new recombinant vaccines. Vaccine, 2016, 34, 1006-1011.	3.8	6
43	New type platforms for in vitro vaccine assembly. Moscow University Biological Sciences Bulletin, 2015, 70, 177-183.	0.7	9
44	Obtaining and characterization of spherical particlesâ€"new biogenic platforms. Moscow University Biological Sciences Bulletin, 2015, 70, 194-197.	0.7	27
45	Comparative Study of Non-Enveloped Icosahedral Viruses Size. PLoS ONE, 2015, 10, e0142415.	2.5	33
46	The 5â€²-proximal region of Potato virus X RNA involves the potential cap-dependent â€œconformational elementâ€•for encapsidation. Biochimie, 2015, 115, 116-119.	2.6	9
47	Double subgenomic promoter control for a target gene superexpression by a plant viral vector. Biochemistry (Moscow), 2015, 80, 1039-1046.	1.5	2
48	Influenza Virus Aerosols in the Air and Their Infectiousness. Advances in Virology, 2014, 2014, 1-6.	1.1	98
49	Complexes assembled from TMV-derived spherical particles and entire virions of heterogeneous nature. Journal of Biomolecular Structure and Dynamics, 2014, 32, 1193-1201.	3.5	21
50	Proteins immobilization on the surface of modified plant viral particles coated with hydrophobic polycations. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1743-1754.	3.5	9
51	Î²-structure of the coat protein subunits in spherical particles generated by tobacco mosaic virus thermal denaturation. Journal of Biomolecular Structure and Dynamics, 2014, 32, 701-708.	3.5	27
52	New phytoviral vector for superexpression of target proteins in plants. Moscow University Biological Sciences Bulletin, 2013, 68, 169-173.	0.7	1
53	The role of the 5â€²-cap structure in viral ribonucleoproteins assembly from potato virus X coat protein and RNAs. Biochimie, 2013, 95, 2415-2422.	2.6	12
54	Examination of Biologically Active Nanocomplexes by Nanoparticle Tracking Analysis. Microscopy and Microanalysis, 2013, 19, 808-813.	0.4	30

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55	Immunogenic compositions assembled from tobacco mosaic virus-generated spherical particle platforms and foreign antigens. Journal of General Virology, 2012, 93, 400-407.	2.9	41
56	Analysis of the role of the coat protein Nâ€terminal segment in <i>Potato virus X</i> virion stability and functional activity. Molecular Plant Pathology, 2012, 13, 38-45.	4.2	15
57	Thermal transition of native tobacco mosaic virus and RNA-free viral proteins into spherical nanoparticles. Journal of General Virology, 2011, 92, 453-456.	2.9	70
58	Use of a polycation spacer for noncovalent immobilization of albumin on thermally modified virus particles. Polymer Science - Series A, 2011, 53, 1026-1031.	1.0	21
59	Comparative study of structure and properties of nucleoproteides synthesized using plant virus coat protein. Colloid Journal, 2011, 73, 523-530.	1.3	1
60	Characterization of Alternanthera mosaic virus and its Coat Protein. The Open Virology Journal, 2011, 5, 136-140.	1.8	17
61	The complete nucleotide sequence of Alternanthera mosaic virus infecting Portulaca grandiflora represents a new strain distinct from phlox isolates. Virus Genes, 2011, 42, 268-271.	1.6	18
62	Characteristics of Artificial Virus-like Particles Assembled in vitro from Potato Virus X Coat Protein and Foreign Viral RNAs. Acta Naturae, 2011, 3, 40-46.	1.7	13
63	Characteristics of Artificial Virus-like Particles Assembled in vitro from Potato Virus X Coat Protein and Foreign Viral RNAs. Acta Naturae, 2011, 3, 40-6.	1.7	8
64	Restoration of potato virus X coat protein capacity for assembly with RNA after His-tag removal. Archives of Virology, 2009, 154, 337-341.	2.1	6
65	Tritium planigraphy study of structural alterations in the coat protein of <i>Potatoâ€ƒvirusâ€ƒX</i> induced by binding of its triple gene blockâ€ƒ1 protein to virions. FEBS Journal, 2009, 276, 7006-7015.	4.7	23
66	Nonspecific activation of translation of encapsidated potexviral RNA with involvement of potato virus X movement protein TGB1. Doklady Biochemistry and Biophysics, 2009, 428, 239-241.	0.9	6
67	<i>Potato virus X</i>: structure, disassembly and reconstitution. Molecular Plant Pathology, 2007, 8, 667-675.	4.2	46
68	Mutagenic analysis of Potato Virus X movement protein (TGBp1) and the coat protein (CP): in vitro TGBp1â€“CP binding and viral RNA translation activation. Molecular Plant Pathology, 2007, 9, 071127144754003-???.	4.2	35
69	Regulation of RNA translation in potato virus X RNA-coat protein complexes: The key role of the N-terminal segment of the protein. Molecular Biology, 2006, 40, 628-634.	1.3	21
70	Potato virus X RNA-mediated assembly of single-tailed ternary â€˜coat proteinâ€“RNAâ€“movement proteinâ€™ complexes. Journal of General Virology, 2006, 87, 2731-2740.	2.9	74
71	Role of C- and N-Terminal Mutations of the Movement Protein of Tobacco Mosaic Virus in Activation of Complexes between the Transport Protein and Viral RNA That Are Not Translated In Vitro. Doklady Biochemistry and Biophysics, 2004, 397, 224-227.	0.9	0
72	Effect of the N-terminal domain of the coat protein of potato virus X on the structure of viral particles. Doklady Biochemistry and Biophysics, 2003, 391, 189-191.	0.9	5

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73	Linear Remodeling of Helical Virus by Movement Protein Binding. Journal of Molecular Biology, 2003, 333, 565-572.	4.2	63
74	AFM Study of Potato Virus X Disassembly Induced by Movement Protein. Journal of Molecular Biology, 2003, 332, 321-325.	4.2	58
75	Comparative analysis of protein kinases that phosphorylate tobacco mosaic virus movement protein in vitro. Doklady Biochemistry and Biophysics, 2002, 386, 293-295.	0.9	6
76	Scanning Probe Microscopy Of Biomacromolecules: Nucleic Acids, Proteins And Their Complexes. , 2002, , 321-330.		4
77	Translational Activation of Encapsidated Potato Virus X RNA by Coat Protein Phosphorylation. Virology, 2001, 286, 466-474.	2.4	81
78	The Movement Protein-Triggered in Situ Conversion of Potato Virus X Virion RNA from a Nontranslatable into a Translatable Form. Virology, 2000, 271, 259-263.	2.4	92
79	Phosphorylation of Tobacco Mosaic Virus Movement Protein Abolishes Its Translation Repressing Ability. Virology, 1999, 261, 20-24.	2.4	72
80	Internal Initiation of Translation Directed by the 5â€²-Untranslated Region of the Tobamovirus Subgenomic RNA I2. Virology, 1999, 263, 139-154.	2.4	49
81	Nontranslatability and Dissimilar Behavior in Plants and Protoplasts of Viral RNA and Movement Protein Complexes Formedin Vitro. Virology, 1997, 230, 11-21.	2.4	80
82	A Tobamovirus Genome That Contains an Internal Ribosome Entry Site Functionalin Vitro. Virology, 1997, 232, 32-43.	2.4	75
83	The 3â€²-untranslated region of brome mosaic virus RNA does not enhancetranslation of capped mRNAs in vitro. FEBS Letters, 1995, 360, 281-285.	2.8	2
84	Effects of sequence elements in the potato virus X RNA 5' non-translated Âbeta-leader on its translation enhancing activity. Journal of General Virology, 1993, 74, 2717-2724.	2.9	23
85	Deletion of the Intercistronic Poly(A) Tract from Brome Mosaic Virus RNA 3 by Ribonuclease H and Its Restoration in Progeny of the Religated RNA 3. Journal of General Virology, 1989, 70, 2287-2297.	2.9	20
86	Site-specific cleavage and religation of viral RNAs.In vitroconstruction of chimeric viral RNAs containing a foreign tRNA-like structure and examination of their properties. Archives of Phytopathology and Plant Protection, 1989, 25, 15-26.	1.3	1
87	Site-specific enzymatic cleavage of TMV RNA directed by deoxyribo- and chimeric (deoxyribo-ribo)oligonucleotides. FEBS Letters, 1988, 232, 96-98.	2.8	15
88	Translation arrest of potato virus X RNA in Krebs-2 cell-free system: RNase H cleavage promoted by complementary oligodeoxynucleotides. FEBS Letters, 1988, 234, 65-68.	2.8	25
89	Site-specific cleavage and religation of viral RNAs I. Infectivity of barley stripe mosaic virus RNA religated from functionally active segments and restoration of the internal poly(A) tract in progeny. Virology, 1987, 159, 312-320.	2.4	15
90	Prospects for improvement of value-added tax in the process of digitalization of the Russian economy. , 0, , .		0