

Elena I Frolova

List of Publications by Year in descending order

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63
papers

3,841
citations

125106

35
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145109

60
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67
all docs

67
docs citations

67
times ranked

3077
citing authors

#	ARTICLE	IF	CITATIONS
1	Site-specific recognition of SARS-CoV-2 nsp1 protein with a tailored titanium dioxide nanoparticle – elucidation of the complex structure using NMR data and theoretical calculation. <i>Nanoscale Advances</i> , 2022, 4, 1527-1532.	2.2	6
2	Optimized production and immunogenicity of an insect virus-based chikungunya virus candidate vaccine in cell culture and animal models. <i>Emerging Microbes and Infections</i> , 2021, 10, 305-316.	3.0	9
3	NAP1L1 and NAP1L4 Binding to Hypervariable Domain of Chikungunya Virus nsP3 Protein Is Bivalent and Requires Phosphorylation. <i>Journal of Virology</i> , 2021, 95, e0083621.	1.5	11
4	Natural and Recombinant SARS-CoV-2 Isolates Rapidly Evolve <i>In Vitro</i> to Higher Infectivity through More Efficient Binding to Heparan Sulfate and Reduced S1/S2 Cleavage. <i>Journal of Virology</i> , 2021, 95, e0135721.	1.5	25
5	¹ H, ¹³ C and ¹⁵ N resonance assignment of the SARS-CoV-2 full-length nsp1 protein and its mutants reveals its unique secondary structure features in solution. <i>PLoS ONE</i> , 2021, 16, e0251834.	1.1	4
6	Mutations in Hypervariable Domain of Venezuelan Equine Encephalitis Virus nsP3 Protein Differentially Affect Viral Replication. <i>Journal of Virology</i> , 2020, 94, .	1.5	9
7	Structural and Functional Characterization of Host FHL1 Protein Interaction with Hypervariable Domain of Chikungunya Virus nsP3 Protein. <i>Journal of Virology</i> , 2020, 95, .	1.5	17
8	Novel NMR Assignment Strategy Reveals Structural Heterogeneity in Solution of the nsP3 HVD Domain of Venezuelan Equine Encephalitis Virus. <i>Molecules</i> , 2020, 25, 5824.	1.7	7
9	Hypervariable Domain of nsP3 of Eastern Equine Encephalitis Virus Is a Critical Determinant of Viral Virulence. <i>Journal of Virology</i> , 2020, 94, .	1.5	13
10	Structural characterization and biological function of bivalent binding of CD2AP to intrinsically disordered domain of chikungunya virus nsP3 protein. <i>Virology</i> , 2019, 537, 130-142.	1.1	22
11	Lack of nsP2-specific nuclear functions attenuates chikungunya virus replication both in vitro and in vivo. <i>Virology</i> , 2019, 534, 14-24.	1.1	19
12	Novel Mutations in nsP2 Abolish Chikungunya Virus-Induced Transcriptional Shutoff and Make the Virus Less Cytopathic without Affecting Its Replication Rates. <i>Journal of Virology</i> , 2019, 93, .	1.5	39
13	¹ H- ² -deoxythymine Is a Potent Anti-alphavirus Compound That Induces a High Level of Mutations in the Viral Genome. <i>Journal of Virology</i> , 2018, 92, .	1.5	148
14	Sindbis Virus Infection Causes Cell Death by nsP2-Induced Transcriptional Shutoff or by nsP3-Dependent Translational Shutoff. <i>Journal of Virology</i> , 2018, 92, .	1.5	36
15	Multiple Host Factors Interact with the Hypervariable Domain of Chikungunya Virus nsP3 and Determine Viral Replication in Cell-Specific Mode. <i>Journal of Virology</i> , 2018, 92, .	1.5	52
16	Hypervariable Domain of Eastern Equine Encephalitis Virus nsP3 Redundantly Utilizes Multiple Cellular Proteins for Replication Complex Assembly. <i>Journal of Virology</i> , 2017, 91, .	1.5	50
17	The SD1 Subdomain of Venezuelan Equine Encephalitis Virus Capsid Protein Plays a Critical Role in Nucleocapsid and Particle Assembly. <i>Journal of Virology</i> , 2016, 90, 2008-2020.	1.5	4
18	Both RIG-I and MDA5 detect alphavirus replication in concentration-dependent mode. <i>Virology</i> , 2016, 487, 230-241.	1.1	54

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19	New World and Old World Alphaviruses Have Evolved to Exploit Different Components of Stress Granules, FXR and G3BP Proteins, for Assembly of Viral Replication Complexes. <i>PLoS Pathogens</i> , 2016, 12, e1005810.	2.1	138
20	IFIT1 Differentially Interferes with Translation and Replication of Alphavirus Genomes and Promotes Induction of Type I Interferon. <i>PLoS Pathogens</i> , 2015, 11, e1004863.	2.1	88
21	Venezuelan Equine Encephalitis Virus Variants Lacking Transcription Inhibitory Functions Demonstrate Highly Attenuated Phenotype. <i>Journal of Virology</i> , 2015, 89, 71-82.	1.5	32
22	Enhancement of protein expression by alphavirus replicons by designing self-replicating subgenomic RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10708-10713.	3.3	38
23	Interferon-Stimulated Poly(ADP-Ribose) Polymerases Are Potent Inhibitors of Cellular Translation and Virus Replication. <i>Journal of Virology</i> , 2014, 88, 2116-2130.	1.5	143
24	The Amino-Terminal Domain of Alphavirus Capsid Protein Is Dispensable for Viral Particle Assembly but Regulates RNA Encapsidation through Cooperative Functions of Its Subdomains. <i>Journal of Virology</i> , 2013, 87, 12003-12019.	1.5	34
25	Venezuelan Equine Encephalitis Virus nsP2 Protein Regulates Packaging of the Viral Genome into Infectious Virions. <i>Journal of Virology</i> , 2013, 87, 4202-4213.	1.5	33
26	Pseudoinfectious Venezuelan Equine Encephalitis Virus: a New Means of Alphavirus Attenuation. <i>Journal of Virology</i> , 2013, 87, 2023-2035.	1.5	23
27	Hypervariable Domain of Nonstructural Protein nsP3 of Venezuelan Equine Encephalitis Virus Determines Cell-Specific Mode of Virus Replication. <i>Journal of Virology</i> , 2013, 87, 7569-7584.	1.5	40
28	Hypervariable Domains of nsP3 Proteins of New World and Old World Alphaviruses Mediate Formation of Distinct, Virus-Specific Protein Complexes. <i>Journal of Virology</i> , 2013, 87, 1997-2010.	1.5	62
29	Early Events in Alphavirus Replication Determine the Outcome of Infection. <i>Journal of Virology</i> , 2012, 86, 5055-5066.	1.5	43
30	Evasion of the Innate Immune Response: the Old World Alphavirus nsP2 Protein Induces Rapid Degradation of Rpb1, a Catalytic Subunit of RNA Polymerase II. <i>Journal of Virology</i> , 2012, 86, 7180-7191.	1.5	167
31	New PARP Gene with an Anti-Alphavirus Function. <i>Journal of Virology</i> , 2012, 86, 8147-8160.	1.5	117
32	Conservation of a Packaging Signal and the Viral Genome RNA Packaging Mechanism in Alphavirus Evolution. <i>Journal of Virology</i> , 2011, 85, 8022-8036.	1.5	95
33	Design of Chimeric Alphaviruses with a Programmed, Attenuated, Cell Type-Restricted Phenotype. <i>Journal of Virology</i> , 2011, 85, 4363-4376.	1.5	34
34	Venezuelan Equine Encephalitis Virus Capsid Protein Forms a Tetrameric Complex with CRM1 and Importin β That Obstructs Nuclear Pore Complex Function. <i>Journal of Virology</i> , 2010, 84, 4158-4171.	1.5	96
35	Functional Sindbis Virus Replicative Complexes Are Formed at the Plasma Membrane. <i>Journal of Virology</i> , 2010, 84, 11679-11695.	1.5	152
36	Interplay of Acute and Persistent Infections Caused by Venezuelan Equine Encephalitis Virus Encoding Mutated Capsid Protein. <i>Journal of Virology</i> , 2010, 84, 10004-10015.	1.5	52

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37	Random Insertion Mutagenesis of Sindbis Virus Nonstructural Protein 2 and Selection of Variants Incapable of Downregulating Cellular Transcription. <i>Journal of Virology</i> , 2009, 83, 9031-9044.	1.5	36
38	IRES-dependent replication of Venezuelan equine encephalitis virus makes it highly attenuated and incapable of replicating in mosquito cells. <i>Virology</i> , 2008, 377, 160-169.	1.1	41
39	Different Types of nsP3-Containing Protein Complexes in Sindbis Virus-Infected Cells. <i>Journal of Virology</i> , 2008, 82, 10088-10101.	1.5	121
40	A New Role for ns Polyprotein Cleavage in Sindbis Virus Replication. <i>Journal of Virology</i> , 2008, 82, 6218-6231.	1.5	64
41	Venezuelan Equine Encephalitis Virus Capsid Protein Inhibits Nuclear Import in Mammalian but Not in Mosquito Cells. <i>Journal of Virology</i> , 2008, 82, 4028-4041.	1.5	81
42	The Old World and New World Alphaviruses Use Different Virus-Specific Proteins for Induction of Transcriptional Shutoff. <i>Journal of Virology</i> , 2007, 81, 2472-2484.	1.5	225
43	Development of Sindbis Viruses Encoding nsP2/GFP Chimeric Proteins and Their Application for Studying nsP2 Functioning. <i>Journal of Virology</i> , 2007, 81, 5046-5057.	1.5	69
44	Analysis of Venezuelan Equine Encephalitis Virus Capsid Protein Function in the Inhibition of Cellular Transcription. <i>Journal of Virology</i> , 2007, 81, 13552-13565.	1.5	109
45	Comparative analysis of the alphavirus-based vectors expressing Rift Valley fever virus glycoproteins. <i>Virology</i> , 2007, 366, 212-225.	1.1	39
46	Expression patterns of Wnt genes during development of an anterior part of the chicken eye. <i>Developmental Dynamics</i> , 2006, 235, 496-505.	0.8	60
47	Sindbis Virus Nonstructural Protein nsP2 Is Cytotoxic and Inhibits Cellular Transcription. <i>Journal of Virology</i> , 2006, 80, 5686-5696.	1.5	159
48	Formation of nsP3-Specific Protein Complexes during Sindbis Virus Replication. <i>Journal of Virology</i> , 2006, 80, 4122-4134.	1.5	123
49	Inhibition of Transcription and Translation in Sindbis Virus-Infected Cells. <i>Journal of Virology</i> , 2005, 79, 9397-9409.	1.5	126
50	PKR-Dependent and -Independent Mechanisms Are Involved in Translational Shutoff during Sindbis Virus Infection. <i>Journal of Virology</i> , 2004, 78, 8455-8467.	1.5	119
51	The expression pattern of opticin during chicken embryogenesis. <i>Gene Expression Patterns</i> , 2004, 4, 335-338.	0.3	11
52	Roles of Nonstructural Protein nsP2 and Alpha/Beta Interferons in Determining the Outcome of Sindbis Virus Infection. <i>Journal of Virology</i> , 2002, 76, 11254-11264.	1.5	200
53	The expression pattern of a novel Deltex homologue during chicken embryogenesis. <i>Mechanisms of Development</i> , 2000, 92, 285-289.	1.7	11
54	Binding of the glucose-dependent Mig1p repressor to the GAL1 and GAL4 promoters in vivo: regulation by glucose and chromatin structure. <i>Nucleic Acids Research</i> , 1999, 27, 1350-1358.	6.5	52

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55	Ribozyme mimics as catalytic antisense reagents. Applied Biochemistry and Biotechnology, 1995, 54, 43-56.	1.4	18
56	Sequence-Specific Cleavage of HIV mRNA by a Ribozyme Mimic. Journal of the American Chemical Society, 1994, 116, 5981-5982.	6.6	159
57	Comparison of interactions of 5'-derivatives of deoxyoctathymidylate with human DNA polymerase α and HIV reverse transcriptase. Molecular Biology Reports, 1993, 18, 43-47.	1.0	3
58	Kinetic study of the addressed modification by hemin derivatives of oligonucleotides. Biochimie, 1993, 75, 5-11.	1.3	17
59	Oxidative degradation of nucleic acids. Russian Chemical Reviews, 1993, 62, 65-86.	2.5	33
60	5'-Derivatives of oligonucleotides as primers of DNA polymerization catalyzed by AMV reverse transcriptase and Klenow fragment of DNA polymerase I. FEBS Letters, 1991, 281, 111-113.	1.3	5
61	Hydroxyl radical generation by oligonucleotide derivatives of anthracycline antibiotic and synthetic quinone. Chemico-Biological Interactions, 1991, 77, 325-339.	1.7	8
62	Porphyrin-linked oligonucleotides. FEBS Letters, 1990, 269, 101-104.	1.3	23
63	Hydroxyl radical generation and DNA strand scission mediated by natural anticancer and synthetic quinones. FEBS Letters, 1989, 242, 397-400.	1.3	16