

Vadim I Agol

List of Publications by Year in descending order

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70
papers

4,225
citations

87888

38
h-index

118850

62
g-index

70
all docs

70
docs citations

70
times ranked

2109
citing authors

#	ARTICLE	IF	CITATIONS
1	Prokaryotic-like cis elements in the cap-independent internal initiation of translation on picornavirus RNA. <i>Cell</i> , 1992, 68, 119-131.	28.9	307
2	Conserved structural domains in the 5' untranslated region of picornaviral genomes: An analysis of the segment controlling translation and neurovirulence. <i>Virology</i> , 1989, 168, 201-209.	2.4	296
3	The Genomes of attenuated and virulent poliovirus strains differ in their in vitro translation efficiencies. <i>Virology</i> , 1985, 147, 243-252.	2.4	176
4	Point mutations modify the response of poliovirus RNA to a translation initiation factor: A comparison of neurovirulent and attenuated strains. <i>Virology</i> , 1988, 166, 394-404.	2.4	151
5	The primary structure of crossover regions of intertypic poliovirus recombinants: A model of recombination between RNA genomes. <i>Virology</i> , 1986, 155, 202-213.	2.4	147
6	Towards identification of cis-acting elements involved in the replication of enterovirus and rhinovirus RNAs: a proposal for the existence of tRNA-like terminal structures. <i>Nucleic Acids Research</i> , 1992, 20, 1739-1745.	14.5	146
7	Circulating vaccine-derived polioviruses: current state of knowledge. <i>Bulletin of the World Health Organization</i> , 2004, 82, 16-23.	3.3	135
8	Evolution of Circulating Wild Poliovirus and of Vaccine-Derived Poliovirus in an Immunodeficient Patient: a Unifying Model. <i>Journal of Virology</i> , 2000, 74, 7381-7390.	3.4	125
9	Poliovirus Protein 3A Inhibits Tumor Necrosis Factor (TNF)-Induced Apoptosis by Eliminating the TNF Receptor from the Cell Surface. <i>Journal of Virology</i> , 2001, 75, 10409-10420.	3.4	119
10	Nonreplicative RNA Recombination in Poliovirus. <i>Journal of Virology</i> , 1999, 73, 8958-8965.	3.4	108
11	Bidirectional Increase in Permeability of Nuclear Envelope upon Poliovirus Infection and Accompanying Alterations of Nuclear Pores. <i>Journal of Virology</i> , 2004, 78, 10166-10177.	3.4	102
12	Paradoxes of the replication of picornaviral genomes. <i>Virus Research</i> , 1999, 62, 129-147.	2.2	100
13	Studies on the recombination between RNA genomes of poliovirus: The primary structure and nonrandom distribution of crossover regions in the genomes of intertypic poliovirus recombinants. <i>Virology</i> , 1987, 161, 54-61.	2.4	94
14	Nucleocytoplasmic Traffic Disorder Induced by Cardioviruses. <i>Journal of Virology</i> , 2006, 80, 2705-2717.	3.4	93
15	Genetic studies on the poliovirus 2C protein, an NTPase: A plausible mechanism of guanidine effect on the 2C function and evidence for the importance of 2C oligomerization. <i>Journal of Molecular Biology</i> , 1994, 236, 1310-1323.	4.2	92
16	Microarray analysis of evolution of RNA viruses: Evidence of circulation of virulent highly divergent vaccine-derived polioviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9398-9403.	7.1	92
17	Two Types of Death of Poliovirus-Infected Cells: Caspase Involvement in the Apoptosis but Not Cytopathic Effect. <i>Virology</i> , 1998, 252, 343-353.	2.4	91
18	Competing Death Programs in Poliovirus-Infected Cells: Commitment Switch in the Middle of the Infectious Cycle. <i>Journal of Virology</i> , 2000, 74, 5534-5541.	3.4	88

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19	Long-Term Circulation of Vaccine-Derived Poliovirus That Causes Paralytic Disease. <i>Journal of Virology</i> , 2002, 76, 6791-6799.	3.4	88
20	Nonreplicative homologous RNA recombination: Promiscuous joining of RNA pieces?. <i>Rna</i> , 2003, 9, 1221-1231.	3.5	85
21	Intertypic recombination in poliovirus: Genetic and biochemical studies. <i>Virology</i> , 1983, 124, 121-132.	2.4	82
22	The Major Apoptotic Pathway Activated and Suppressed by Poliovirus. <i>Journal of Virology</i> , 2003, 77, 45-56.	3.4	80
23	Starting Window, a Distinct Element in the Cap-independent Internal Initiation of Translation on Picornaviral RNA. <i>Journal of Molecular Biology</i> , 1994, 241, 398-414.	4.2	76
24	Vaccination against polio should not be stopped. <i>Nature Reviews Microbiology</i> , 2007, 5, 952-958.	28.6	75
25	A model for rearrangements in RNA genomes. <i>Nucleic Acids Research</i> , 1995, 23, 1870-1875.	14.5	68
26	Retrospective Analysis of a Local Cessation of Vaccination against Poliomyelitis: a Possible Scenario for the Future. <i>Journal of Virology</i> , 2003, 77, 12460-12465.	3.4	65
27	Mengovirus-Induced Rearrangement of the Nuclear Pore Complex: Hijacking Cellular Phosphorylation Machinery. <i>Journal of Virology</i> , 2009, 83, 3150-3161.	3.4	65
28	Viral security proteins: counteracting host defences. <i>Nature Reviews Microbiology</i> , 2010, 8, 867-878.	28.6	61
29	Vaccine-derived polioviruses. <i>Biologicals</i> , 2006, 34, 103-108.	1.4	60
30	Early Alteration of Nucleocytoplasmic Traffic Induced by Some RNA Viruses. <i>Virology</i> , 2000, 275, 244-248.	2.4	55
31	Coupled mutations in the 5'-untranslated region of the Sabin poliovirus strains during in vivo passages: structural and functional implications. <i>Virus Research</i> , 1991, 21, 111-122.	2.2	52
32	Antigenic Evolution of Vaccine-Derived Polioviruses: Changes in Individual Epitopes and Relative Stability of the Overall Immunological Properties. <i>Journal of Virology</i> , 2006, 80, 2641-2653.	3.4	52
33	Polyadenylation of genomic RNA and initiation of antigenomic RNA in a positive-strand RNA virus are controlled by the same cis-element. <i>Nucleic Acids Research</i> , 2006, 34, 2953-2965.	14.5	50
34	Apoptosis-related fragmentation, translocation, and properties of human prothymosin alpha. <i>Experimental Cell Research</i> , 2003, 284, 209-221.	2.6	48
35	The Baltimore Classification of Viruses 50 Years Later: How Does It Stand in the Light of Virus Evolution?. <i>Microbiology and Molecular Biology Reviews</i> , 2021, 85, e0005321.	6.6	47
36	Prothymosin $\hat{\pm}$ fragmentation in apoptosis. <i>FEBS Letters</i> , 2000, 467, 150-154.	2.8	46

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37	Antiapoptotic Activity of the Cardiovirus Leader Protein, a Viral "Security" Protein. <i>Journal of Virology</i> , 2009, 83, 7273-7284.	3.4	44
38	Immunisation against poliomyelitis: moving forward. <i>Lancet, The</i> , 2008, 371, 1385-1387.	13.7	40
39	Gross rearrangements within the 5'-untranslated region of the picornaviral genomes. <i>Nucleic Acids Research</i> , 1990, 18, 3371-3375.	14.5	39
40	Poliovirus Neurovirulence Correlates with the Presence of a Cryptic AUG Upstream of the Initiator Codon. <i>Virology</i> , 1996, 221, 141-150.	2.4	31
41	Variability in apoptotic response to poliovirus infection. <i>Virology</i> , 2005, 331, 292-306.	2.4	31
42	Cytopathic effects: virus-modulated manifestations of innate immunity?. <i>Trends in Microbiology</i> , 2012, 20, 570-576.	7.7	30
43	Modification of translational control elements as a new approach to design of attenuated picornavirus strains. <i>Journal of Biotechnology</i> , 1996, 44, 119-128.	3.8	26
44	Emergency Services of Viral RNAs: Repair and Remodeling. <i>Microbiology and Molecular Biology Reviews</i> , 2018, 82, .	6.6	26
45	Translational Barrier in Central Region of Encephalomyocarditis Virus Genome. Modulation by Elongation Factor 2 (eEF-2). <i>FEBS Journal</i> , 1983, 133, 145-154.	0.2	24
46	Cross-talk between orientation-dependent recognition determinants of a complex control RNA element, the enterovirus oriR. <i>Rna</i> , 2000, 6, 976-987.	3.5	24
47	Polio eradication at the crossroads. <i>The Lancet Global Health</i> , 2021, 9, e1172-e1175.	6.3	23
48	Non-Canonical Translation Initiation Mechanisms Employed by Eukaryotic Viral mRNAs. <i>Biochemistry (Moscow)</i> , 2021, 86, 1060-1094.	1.5	22
49	Evolution of the Sabin Vaccine into Pathogenic Derivatives without Appreciable Changes in Antigenic Properties: Need for Improvement of Current Poliovirus Surveillance. <i>Journal of Virology</i> , 2009, 83, 3402-3406.	3.4	21
50	A Cluster of Paralytic Poliomyelitis Cases Due to Transmission of Slightly Diverged Sabin 2 Vaccine Poliovirus. <i>Journal of Virology</i> , 2016, 90, 5978-5988.	3.4	20
51	Pressure for Pattern-Specific Intertypic Recombination between Sabin Polioviruses: Evolutionary Implications. <i>Viruses</i> , 2017, 9, 353.	3.3	20
52	Distinct Attenuation Phenotypes Caused by Mutations in the Translational Starting Window of Theiler's Murine Encephalomyelitis Virus. <i>Journal of Virology</i> , 1999, 73, 3190-3196.	3.4	20
53	Small cytoplasmic RNA from mouse cells covalently linked to a protein. <i>FEBS Letters</i> , 1988, 232, 35-38.	2.8	17
54	Picornavirus Genome: an Overview. , 0, , 125-148.		17

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55	A GCUA tetranucleotide loop found in the poliovirus or1L by in vivo SELEX (un)expectedly forms a YNMG-like structure: Extending the YNMG family with GYYA. <i>Rna</i> , 2006, 12, 1671-1682.	3.5	16
56	Final checkpoint in the drug-promoted and poliovirus-promoted apoptosis is under post-translational control by growth factors. <i>Journal of Cellular Biochemistry</i> , 1996, 63, 422-431.	2.6	15
57	Unstable receptors disappear from cell surface during poliovirus infection. <i>Medical Science Monitor</i> , 2002, 8, BR391-6.	1.1	14
58	Don't drop current vaccine until we have new ones. <i>Nature</i> , 2005, 435, 881-881.	27.8	13
59	Encephalomyocarditis virus replication complexes that Prefer nucleoside diphosphates as substrates for viral RNA synthesis. <i>Virology</i> , 1983, 129, 309-318.	2.4	11
60	Mutational robustness and resilience of a replicative cis-element of RNA virus: Promiscuity, limitations, relevance. <i>RNA Biology</i> , 2015, 12, 1338-1354.	3.1	10
61	Significance of the C-terminal amino acid residue in mengovirus RNA-dependent RNA polymerase. <i>Virology</i> , 2007, 365, 79-91.	2.4	9
62	Theiler's Murine Encephalomyelitis Virus L* Amino Acid Position 93 Is Important for Virus Persistence and Virus-Induced Demyelination. <i>Journal of Virology</i> , 2010, 84, 1348-1354.	3.4	9
63	Picornavirus Genetics: an Overview. , 0, , 269-284.		9
64	Encephalomyocarditis virus replication complexes preferentially utilizing nucleoside diphosphates as substrates for viral RNA synthesis. Nucleotide kinases specifically associated with the complex channel RNA precursor. <i>FEBS Journal</i> , 1984, 144, 249-254.	0.2	7
65	Interactions between Viral and Prokaryotic Pathogens in a Mixed Infection with Cardiovirus and Mycoplasma. <i>Journal of Virology</i> , 2009, 83, 9940-9951.	3.4	7
66	Suppression of Injuries Caused by a Lytic RNA Virus (Mengovirus) and Their Uncoupling from Viral Reproduction by Mutual Cell/Virus Disarmament. <i>Journal of Virology</i> , 2012, 86, 5574-5583.	3.4	5
67	Eradicating polio: A balancing act. <i>Science</i> , 2016, 351, 348-348.	12.6	5
68	Picornaviruses as a Model for Studying the Nature of RNA Recombination. , 2014, , 239-252.		1
69	Characterization of Mutational Tolerance of a Viral RNA-Protein Interaction. <i>Viruses</i> , 2019, 11, 479.	3.3	1
70	In pursuit of intriguing puzzles. <i>Virology</i> , 2020, 539, 49-60.	2.4	1