Ashleigh Shannon

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9235873/publications.pdf

Version: 2024-02-01

74 papers	7,609 citations	87888 38 h-index	85541 71 g-index
78 all docs	78 docs citations	78 times ranked	8642 citing authors

#	Article	IF	Citations
1	A dual mechanism of action of AT-527 against SARS-CoV-2 polymerase. Nature Communications, 2022, 13, 621.	12.8	52
2	Synthesis, Structureâ€“Activity Relationships, and Antiviral Profiling of 1-Heteroaryl-2-Alkoxyphenyl Analogs as Inhibitors of SARS-CoV-2 Replication. Molecules, 2022, 27, 1052.	3.8	4
3	A fluorescence-based high throughput-screening assay for the SARS-CoV RNA synthesis complex. Journal of Virological Methods, 2021, 288, 114013.	2.1	16
4	Combining Antivirals and Immunomodulators to Fight COVID-19. Trends in Immunology, 2021, 42, 31-44.	6.8	46
5	First insights into the structural features of Ebola virus methyltransferase activities. Nucleic Acids Research, 2021, 49, 1737-1748.	14.5	14
6	Observation of arenavirus nucleoprotein heptamer assembly. FEBS Open Bio, 2021, 11, 1076-1083.	2.3	0
7	AT-527, a Double Prodrug of a Guanosine Nucleotide Analog, Is a Potent Inhibitor of SARS-CoV-2 In Vitro and a Promising Oral Antiviral for Treatment of COVID-19. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	105
8	Simeprevir Potently Suppresses SARS-CoV-2 Replication and Synergizes with Remdesivir. ACS Central Science, 2021, 7, 792-802.	11.3	59
9	The enzymes for genome size increase and maintenance of large (+)RNA viruses. Trends in Biochemical Sciences, 2021, 46, 866-877.	7.5	9
10	The nucleotide addition cycle of the SARS-CoV-2 polymerase. Cell Reports, 2021, 36, 109650.	6.4	18
11	Evaluation of AT-752, a Double Prodrug of a Guanosine Nucleotide Analog with In Vitro and In Vivo Activity against Dengue and Other Flaviviruses. Antimicrobial Agents and Chemotherapy, 2021, 65, e0098821.	3.2	19
12	Inhibition of SARS-CoV-2 polymerase by nucleotide analogs from a single-molecule perspective. ELife, 2021, 10, .	6.0	53
13	An appeal for an objective, open, and transparent scientific debate about the origin of SARS-CoV-2. Lancet, The, 2021, 398, 1402-1404.	13.7	17
14	Structureâ€“function analysis of the nsp14 N7â€“guanine methyltransferase reveals an essential role inBetacoronavirusreplication. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	26
15	Drugs against SARSâ€CoV â€2: What do we know about their mode of action?. Reviews in Medical Virology, 2020, 30, 1-10.	8.3	30
16	Snapshots of ADP-ribose bound to Getah virus macro domain reveal an intriguing choreography. Scientific Reports, 2020, 10, 14422.	3.3	7
17	Rapid incorporation of Favipiravir by the fast and permissive viral RNA polymerase complex results in SARS-CoV-2 lethal mutagenesis. Nature Communications, 2020, 11, 4682.	12.8	210
18	Remdesivir and SARS-CoV-2: Structural requirements at both nsp12 RdRp and nsp14 Exonuclease active-sites. Antiviral Research, 2020, 178, 104793.	4.1	271

#	Article	IF	Citations
19	The C-Terminal Domain of the Sudan Ebolavirus L Protein Is Essential for RNA Binding and Methylation. Journal of Virology, 2020, 94, .	3.4	12
20	A N7-guanine RNA cap methyltransferase signature-sequence as a genetic marker of large genome, non-mammalian Tobaniviridae. NAR Genomics and Bioinformatics, 2020, 2, lqz022.	3.2	10
21	The Curious Case of the Nidovirus Exoribonuclease: Its Role in RNA Synthesis and Replication Fidelity. Frontiers in Microbiology, 2019, 10, 1813.	3.5	130
22	Efficient Delivery of Dengue Virus Subunit Vaccines to the Skin by Microprojection Arrays. Vaccines, 2019, 7, 189.	4.4	28
23	Metal chelators for the inhibition of the lymphocytic choriomeningitis virus endonuclease domain. Antiviral Research, 2019, 162, 79-89.	4.1	8
24	Structural and molecular basis of mismatch correction and ribavirin excision from coronavirus RNA. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E162-E171.	7.1	331
25	Dengue virus 3 NS5 methyltransferase domain: expression, purification, crystallization and first structural data from microcrystalline specimens. Zeitschrift Fur Kristallographie - Crystalline Materials, 2018, 233, 309-316.	0.8	8
26	The methyltransferase domain of the Sudan ebolavirus L protein specifically targets internal adenosines of RNA substrates, in addition to the cap structure. Nucleic Acids Research, 2018, 46, 7902-7912.	14.5	39
27	Structural and Functional Basis of the Fidelity of Nucleotide Selection by Flavivirus RNA-Dependent RNA Polymerases. Viruses, 2018, 10, 59.	3.3	50
28	Filovirus proteins for antiviral drug discovery: Structure/function bases of the replication cycle. Antiviral Research, 2017, 141, 48-61.	4.1	29
29	Biochemical principles and inhibitors to interfere with viral capping pathways. Current Opinion in Virology, 2017, 24, 87-96.	5.4	32
30	Understanding the Mechanism of the Broad-Spectrum Antiviral Activity of Favipiravir (T-705): Key Role of the F1 Motif of the Viral Polymerase. Journal of Virology, 2017, 91, .	3.4	62
31	Zika Virus Methyltransferase: Structure and Functions for Drug Design Perspectives. Journal of Virology, 2017, 91, .	3.4	109
32	Substrate selectivity of Dengue and Zika virus NS5 polymerase towards 2â€²-modified nucleotide analogues. Antiviral Research, 2017, 140, 25-36.	4.1	34
33	Activity inhibition and crystal polymorphism induced by active-site metal swapping. Acta Crystallographica Section D: Structural Biology, 2017, 73, 641-649.	2.3	12
34	Toscana virusnucleoprotein oligomer organization observed in solution. Acta Crystallographica Section D: Structural Biology, 2017, 73, 650-659.	2.3	8
35	Product release is rate-limiting for catalytic processing by the Dengue virus protease. Scientific Reports, 2016, 6, 37539.	3.3	10
36	Coxsackievirus B3 protease 3C: expression, purification, crystallization and preliminary structural insights. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 877-884.	0.8	11

#	Article	IF	Citations
37	Filovirus proteins for antiviral drug discovery: A structure/function analysis of surface glycoproteins and virus entry. Antiviral Research, 2016, 135, 1-14.	4.1	33
38	Viral Macro Domains Reverse Protein ADP-Ribosylation. Journal of Virology, 2016, 90, 8478-8486.	3.4	140
39	Simultaneous uncoupled expression and purification of the Dengue virus NS3 protease and NS2B co-factor domain. Protein Expression and Purification, 2016, 119, 124-129.	1.3	18
40	X-ray structure and activities of an essential Mononegavirales L-protein domain. Nature Communications, 2015, 6, 8749.	12.8	49
41	SARS-CoV ORF1b-encoded nonstructural proteins 12â€“16: Replicative enzymes as antiviral targets. Antiviral Research, 2014, 101, 122-130.	4.1	153
42	One severe acute respiratory syndrome coronavirus protein complex integrates processive RNA polymerase and exonuclease activities. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3900-9.	7.1	482
43	Regulation of Flavivirus RNA synthesis and replication. Current Opinion in Virology, 2014, 9, 74-83.	5.4	72
44	Evaluation of Adamantane Derivatives as Inhibitors of Dengue Virus mRNA Cap Methyltransferase by Docking and Molecular Dynamics Simulations. Molecular Informatics, 2013, 32, 155-164.	2.5	12
45	Les protÃ©ines non structurales des AlphavirusÂ: rÃ1e dans la rÃ©plication et l'interaction du virus avec la cellule hÃ´te. Virologie, 2013, 17, 31-45.	0.1	0
46	Molecular Basis for Nucleotide Conservation at the Ends of the Dengue Virus Genome. PLoS Pathogens, 2012, 8, e1002912.	4.7	66
47	RNA 3'-end mismatch excision by the severe acute respiratory syndrome coronavirus nonstructural protein nsp10/nsp14 exoribonuclease complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9372-9377.	7.1	297
48	SAMHD1 restricts the replication of human immunodeficiency virus type 1 by depleting the intracellular pool of deoxynucleoside triphosphates. Nature Immunology, 2012, 13, 223-228.	14.5	719
49	Synthesis of 5â€² cap-0 and cap-1 RNAs using solid-phase chemistry coupled with enzymatic methylation by human (guanine-N⁷)-methyl transferase. Rna, 2012, 18, 856-868.	3.5	47
50	The viral RNA capping machinery as a target for antiviral drugs. Antiviral Research, 2012, 96, 21-31.	4.1	79
51	Conventional and unconventional mechanisms for capping viral mRNA. Nature Reviews Microbiology, 2012, 10, 51-65.	28.6	373
52	Les enzymes de la rÃ©plication/transcription chez les coronavirus. Virologie, 2012, 16, 199-209.	0.1	1
53	Crystal Structure and Functional Analysis of the SARS-Coronavirus RNA Cap 2â€²-O-Methyltransferase nsp10/nsp16 Complex. PLoS Pathogens, 2011, 7, e1002059.	4.7	295
54	The VIZIER project: Overview; expectations; and achievements. Antiviral Research, 2010, 87, 85-94.	4.1	16

#	Article	IF	Citations
55	Molecular Mapping of the RNA Cap 2â€²-O-Methyltransferase Activation Interface between Severe Acute Respiratory Syndrome Coronavirus nsp10 and nsp16*. Journal of Biological Chemistry, 2010, 285, 33230-33241.	3.4	56
56	In Vitro Reconstitution of SARS-Coronavirus mRNA Cap Methylation. PLoS Pathogens, 2010, 6, e1000863.	4.7	322
57	The N-Terminal Domain of the Arenavirus L Protein Is an RNA Endonuclease Essential in mRNA Transcription. PLoS Pathogens, 2010, 6, e1001038.	4.7	145
58	Preliminary insights into the non structural protein 3 macro domain of the Mayaro virus by powder diffraction. Zeitschrift FÃ¼r Kristallographie, 2010, 225, .	1.1	8
59	Monoclonal antibodies to the West Nile virus NS5 protein map to linear and conformational epitopes in the methyltransferase and polymerase domains. Journal of General Virology, 2009, 90, 2912-2922.	2.9	20
60	RNA-dependent RNA polymerases from flaviviruses and Picornaviridae. Current Opinion in Structural Biology, 2009, 19, 759-767.	5.7	52
61	International research networks in viral structural proteomics: Again, lessons from SARS. Antiviral Research, 2008, 78, 47-50.	4.1	6
62	The flavivirus polymerase as a target for drug discovery. Antiviral Research, 2008, 80, 23-35.	4.1	167
63	The SARS-Coronavirus PLnc domain of nsp3 as a replication/transcription scaffolding protein. Virus Research, 2008, 133, 136-148.	2.2	122
64	Coronavirus Nonstructural Protein 16 Is a Cap-0 Binding Enzyme Possessing (Nucleoside-2â€² O) Tj ETQq0 0 0 rgBT /Overlock 10	3.4	220
65	Gln151 of HIV-1 Reverse Transcriptase Acts as a Steric Gate Towards Clinically Relevant Acyclic Phosphonate Nucleotide Analogues. Antiviral Therapy, 2008, 13, 115-124.	1.0	33
66	Chemical Composition and Antimicrobial Activity of the Essential Oil of Saccocalyx satureioides Coss. et Dur. Natural Product Communications, 2006, 1, 1934578X0600100.	0.5	5
67	A second, non-canonical RNA-dependent RNA polymerase in SARS Coronavirus. EMBO Journal, 2006, 25, 4933-4942.	7.8	224
68	Comparative mechanistic studies of de novo RNA synthesis by flavivirus RNA-dependent RNA polymerases. Virology, 2006, 351, 145-158.	2.4	106
69	Discovery of an RNA virus 3â€²â†’5â€² exoribonuclease that is critically involved in coronavirus RNA synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5108-5113.	7.1	524
70	VaZyMolO: a tool to define and classify modularity in viral proteins. Journal of General Virology, 2005, 86, 743-749.	2.9	45
71	Structural disorder and modular organization in Paramyxovirinae N and P. Journal of General Virology, 2003, 84, 3239-3252.	2.9	156
72	Nucleotide Analogue Binding, Catalysis and Primer Unblocking in the Mechanisms of HIV-1 Reverse Transcriptase-Mediated Resistance to Nucleoside Analogues. Antiviral Therapy, 2003, 8, 143-154.	1.0	24

#	Article	IF	Citations
73	Viral RNA-polymerases â€" a predicted 2â€²-O-ribose methyltransferase domain shared by all Mononegavirales. Trends in Biochemical Sciences, 2002, 27, 222-224.	7.5	92
74	An RNA cap (nucleoside-2'-O-)-methyltransferase in the flavivirus RNA polymerase NS5: crystal structure and functional characterization. EMBO Journal, 2002, 21, 2757-2768.	7.8	520