

# Ashleigh Shannon

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75  
papers

5,643  
citations

34  
h-index

75  
g-index

78  
ext. papers

6,830  
ext. citations

8.5  
avg, IF

5.67  
L-index

#	Paper	IF	Citations
75	A dual mechanism of action of AT-527 against SARS-CoV-2 polymerase.. <i>Nature Communications</i> , <b>2022</b> , 13, 621	17.4	6
74	Structure-function analysis of the nsp14 N7-guanine methyltransferase reveals an essential role in replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
73	Inhibition of SARS-CoV-2 polymerase by nucleotide analogs: a single molecule perspective <b>2021</b> ,		8
72	The nucleotide addition cycle of the SARS-CoV-2 polymerase <b>2021</b> ,		2
71	AT-527, a Double Prodrug of a Guanosine Nucleotide Analog, Is a Potent Inhibitor of SARS-CoV-2 and a Promising Oral Antiviral for Treatment of COVID-19. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2021</b> , 65,	5.9	54
70	Simeprevir Potently Suppresses SARS-CoV-2 Replication and Synergizes with Remdesivir. <i>ACS Central Science</i> , <b>2021</b> , 7, 792-802	16.8	24
69	The enzymes for genome size increase and maintenance of large (+)RNA viruses. <i>Trends in Biochemical Sciences</i> , <b>2021</b> , 46, 866-877	10.3	0
68	A fluorescence-based high throughput-screening assay for the SARS-CoV RNA synthesis complex. <i>Journal of Virological Methods</i> , <b>2021</b> , 288, 114013	2.6	9
67	Combining Antivirals and Immunomodulators to Fight COVID-19. <i>Trends in Immunology</i> , <b>2021</b> , 42, 31-44	14.4	21
66	First insights into the structural features of Ebola virus methyltransferase activities. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 1737-1748	20.1	4
65	Observation of arenavirus nucleoprotein heptamer assembly. <i>FEBS Open Bio</i> , <b>2021</b> , 11, 1076-1083	2.7	
64	The nucleotide addition cycle of the SARS-CoV-2 polymerase. <i>Cell Reports</i> , <b>2021</b> , 36, 109650	10.6	6
63	Evaluation of AT-752, a Double Prodrug of a Guanosine Nucleotide Analog with and Activity against Dengue and Other Flaviviruses. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2021</b> , 65, e0098821	5.9	4
62	Inhibition of SARS-CoV-2 polymerase by nucleotide analogs from a single-molecule perspective. <i>ELife</i> , <b>2021</b> , 10,	8.9	11
61	An appeal for an objective, open, and transparent scientific debate about the origin of SARS-CoV-2. <i>Lancet, The</i> , <b>2021</b> , 398, 1402-1404	40	5
60	Remdesivir and SARS-CoV-2: Structural requirements at both nsp12 RdRp and nsp14 Exonuclease active-sites. <i>Antiviral Research</i> , <b>2020</b> , 178, 104793	10.8	210
59	The C-Terminal Domain of the Sudan Ebolavirus L Protein Is Essential for RNA Binding and Methylation. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	7

58	A N7-guanine RNA cap methyltransferase signature-sequence as a genetic marker of large genome, non-mammalian. <i>NAR Genomics and Bioinformatics</i> , <b>2020</b> , 2, lqz022	3.7	5
57	Drugs against SARS-CoV-2: What do we know about their mode of action?. <i>Reviews in Medical Virology</i> , <b>2020</b> , 30, 1-10	11.7	20
56	Snapshots of ADP-ribose bound to Getah virus macro domain reveal an intriguing choreography. <i>Scientific Reports</i> , <b>2020</b> , 10, 14422	4.9	3
55	Rapid incorporation of Favipiravir by the fast and permissive viral RNA polymerase complex results in SARS-CoV-2 lethal mutagenesis. <i>Nature Communications</i> , <b>2020</b> , 11, 4682	17.4	105
54	The Curious Case of the Nidovirus Exoribonuclease: Its Role in RNA Synthesis and Replication Fidelity. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1813	5.7	86
53	Efficient Delivery of Dengue Virus Subunit Vaccines to the Skin by Microprojection Arrays. <i>Vaccines</i> , <b>2019</b> , 7,	5.3	12
52	Metal chelators for the inhibition of the lymphocytic choriomeningitis virus endonuclease domain. <i>Antiviral Research</i> , <b>2019</b> , 162, 79-89	10.8	3
51	Structural and molecular basis of mismatch correction and ribavirin excision from coronavirus RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E162-E171	11.5	230
50	Structural and Functional Basis of the Fidelity of Nucleotide Selection by Flavivirus RNA-Dependent RNA Polymerases. <i>Viruses</i> , <b>2018</b> , 10,	6.2	34
49	Dengue virus 3 NS5 methyltransferase domain: expression, purification, crystallization and first structural data from microcrystalline specimens. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2018</b> , 233, 309-316	1	8
48	The methyltransferase domain of the Sudan ebolavirus L protein specifically targets internal adenosines of RNA substrates, in addition to the cap structure. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 7902-7912	29.1	27
47	Filovirus proteins for antiviral drug discovery: Structure/function bases of the replication cycle. <i>Antiviral Research</i> , <b>2017</b> , 141, 48-61	10.8	25
46	Biochemical principles and inhibitors to interfere with viral capping pathways. <i>Current Opinion in Virology</i> , <b>2017</b> , 24, 87-96	7.5	19
45	Understanding the Mechanism of the Broad-Spectrum Antiviral Activity of Favipiravir (T-705): Key Role of the F1 Motif of the Viral Polymerase. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	49
44	Zika Virus Methyltransferase: Structure and Functions for Drug Design Perspectives. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	86
43	Substrate selectivity of Dengue and Zika virus NS5 polymerase towards 2Rmodified nucleotide analogues. <i>Antiviral Research</i> , <b>2017</b> , 140, 25-36	10.8	27
42	Activity inhibition and crystal polymorphism induced by active-site metal swapping. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2017</b> , 73, 641-649	5.5	5
41	Toscana virus nucleoprotein oligomer organization observed in solution. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2017</b> , 73, 650-659	5.5	5

40	Filovirus proteins for antiviral drug discovery: A structure/function analysis of surface glycoproteins and virus entry. <i>Antiviral Research</i> , <b>2016</b> , 135, 1-14	10.8	27
39	Viral Macro Domains Reverse Protein ADP-Ribosylation. <i>Journal of Virology</i> , <b>2016</b> , 90, 8478-86	6.6	97
38	Simultaneous uncoupled expression and purification of the Dengue virus NS3 protease and NS2B co-factor domain. <i>Protein Expression and Purification</i> , <b>2016</b> , 119, 124-9	2	14
37	Product release is rate-limiting for catalytic processing by the Dengue virus protease. <i>Scientific Reports</i> , <b>2016</b> , 6, 37539	4.9	9
36	Coxsackievirus B3 protease 3C: expression, purification, crystallization and preliminary structural insights. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2016</b> , 72, 877-884	1.1	11
35	X-ray structure and activities of an essential Mononegavirales L-protein domain. <i>Nature Communications</i> , <b>2015</b> , 6, 8749	17.4	36
34	SARS-CoV ORF1b-encoded nonstructural proteins 12-16: replicative enzymes as antiviral targets. <i>Antiviral Research</i> , <b>2014</b> , 101, 122-30	10.8	113
33	One severe acute respiratory syndrome coronavirus protein complex integrates processive RNA polymerase and exonuclease activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E3900-9	11.5	344
32	Regulation of Flavivirus RNA synthesis and replication. <i>Current Opinion in Virology</i> , <b>2014</b> , 9, 74-83	7.5	59
31	Evaluation of Adamantane Derivatives as Inhibitors of Dengue Virus mRNA Cap Methyltransferase by Docking and Molecular Dynamics Simulations. <i>Molecular Informatics</i> , <b>2013</b> , 32, 155-64	3.8	9
30	SAMHD1 restricts the replication of human immunodeficiency virus type 1 by depleting the intracellular pool of deoxynucleoside triphosphates. <i>Nature Immunology</i> , <b>2012</b> , 13, 223-228	19.1	592
29	Synthesis of 5Rcap-0 and cap-1 RNAs using solid-phase chemistry coupled with enzymatic methylation by human (guanine-N <sup>7</sup> )methyl transferase. <i>Rna</i> , <b>2012</b> , 18, 856-68	5.8	37
28	The viral RNA capping machinery as a target for antiviral drugs. <i>Antiviral Research</i> , <b>2012</b> , 96, 21-31	10.8	59
27	Molecular basis for nucleotide conservation at the ends of the dengue virus genome. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002912	7.6	56
26	RNA 3' end mismatch excision by the severe acute respiratory syndrome coronavirus nonstructural protein nsp10/nsp14 exoribonuclease complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 9372-7	11.5	209
25	Les enzymes de la r�plication/transcription chez les coronavirus. <i>Virologie</i> , <b>2012</b> , 16, 199-209	0.4	
24	Conventional and unconventional mechanisms for capping viral mRNA. <i>Nature Reviews Microbiology</i> , <b>2011</b> , 10, 51-65	22.2	261
23	Crystal structure and functional analysis of the SARS-coronavirus RNA cap 2' O-methyltransferase nsp10/nsp16 complex. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002059	7.6	230

22	Molecular mapping of the RNA Cap 2RO-methyltransferase activation interface between severe acute respiratory syndrome coronavirus nsp10 and nsp16. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 33230-33241	5.4	49
21	In vitro reconstitution of SARS-coronavirus mRNA cap methylation. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000863	7.6	228
20	The N-terminal domain of the arenavirus L protein is an RNA endonuclease essential in mRNA transcription. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1001038	7.6	121
19	Preliminary insights into the non structural protein 3 macro domain of the Mayaro virus by powder diffraction. <i>Zeitschrift für Kristallographie</i> , <b>2010</b> , 225,		8
18	The VIZIER project: overview; expectations; and achievements. <i>Antiviral Research</i> , <b>2010</b> , 87, 85-94	10.8	13
17	Monoclonal antibodies to the West Nile virus NS5 protein map to linear and conformational epitopes in the methyltransferase and polymerase domains. <i>Journal of General Virology</i> , <b>2009</b> , 90, 2912-2922	4.9	20
16	RNA-dependent RNA polymerases from flaviviruses and Picornaviridae. <i>Current Opinion in Structural Biology</i> , <b>2009</b> , 19, 759-67	8.1	48
15	International research networks in viral structural proteomics: again, lessons from SARS. <i>Antiviral Research</i> , <b>2008</b> , 78, 47-50	10.8	5
14	The flavivirus polymerase as a target for drug discovery. <i>Antiviral Research</i> , <b>2008</b> , 80, 23-35	10.8	141
13	The SARS-Coronavirus PLnc domain of nsp3 as a replication/transcription scaffolding protein. <i>Virus Research</i> , <b>2008</b> , 133, 136-48	6.4	99
12	Coronavirus nonstructural protein 16 is a cap-0 binding enzyme possessing (nucleoside-2' O)-methyltransferase activity. <i>Journal of Virology</i> , <b>2008</b> , 82, 8071-84	6.6	177
11	Gln151 of HIV-1 Reverse Transcriptase Acts as a Steric Gate Towards Clinically Relevant Acyclic Phosphonate Nucleotide Analogues. <i>Antiviral Therapy</i> , <b>2008</b> , 13, 115-124	1.6	28
10	Comparative mechanistic studies of de novo RNA synthesis by flavivirus RNA-dependent RNA polymerases. <i>Virology</i> , <b>2006</b> , 351, 145-58	3.6	98
9	Discovery of an RNA virus 3R $\rightarrow$ 5Rexoribonuclease that is critically involved in coronavirus RNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 5108-13	11.5	396
8	Chemical Composition and Antimicrobial Activity of the Essential Oil of <i>Saccocalyx satureioides</i> Coss. et Dur. <i>Natural Product Communications</i> , <b>2006</b> , 1, 1934578X0600100	0.9	4
7	A second, non-canonical RNA-dependent RNA polymerase in SARS coronavirus. <i>EMBO Journal</i> , <b>2006</b> , 25, 4933-42	13	193
6	VaZyMolO: a tool to define and classify modularity in viral proteins. <i>Journal of General Virology</i> , <b>2005</b> , 86, 743-749	4.9	42
5	Structural disorder and modular organization in Paramyxovirinae N and P. <i>Journal of General Virology</i> , <b>2003</b> , 84, 3239-3252	4.9	141

4	Nucleotide Analogue Binding, Catalysis and Primer Unblocking in the Mechanisms of HIV-1 Reverse Transcriptase-Mediated Resistance to Nucleoside Analogues. <i>Antiviral Therapy</i> , <b>2003</b> , 8, 143-154	1.6	17
3	Viral RNA-polymerases -- a predicted 2'RO-ribose methyltransferase domain shared by all Mononegavirales. <i>Trends in Biochemical Sciences</i> , <b>2002</b> , 27, 222-4	10.3	87
2	An RNA cap (nucleoside-2'RO-)-methyltransferase in the flavivirus RNA polymerase NS5: crystal structure and functional characterization. <i>EMBO Journal</i> , <b>2002</b> , 21, 2757-68	13	433
1	Protein-primed RNA synthesis in SARS-CoVs and structural basis for inhibition by AT-527		7