Aartjan J W Te Velthuis

List of Publications by Year
in descending order

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111 papers	9,890 citations	50566 48 h-index	45040 94 g-index
127 all docs	127 docs citations	127 times ranked	10625 citing authors

#	Article	IF	Citations
1	Mapping inhibitory sites on the RNA polymerase of the 1918 pandemic influenza virus using nanobodies. Nature Communications, 2022, 13, 251.	5.8	14
2	The C-Terminal Domains of the PB2 Subunit of the Influenza A Virus RNA Polymerase Directly Interact with Cellular GTPase Rab11a. Journal of Virology, 2022, 96, jvi0197921.	1.5	7
3	Characterization of the SARS-CoV-2 ExoN (nsp14ExoNâ€“nsp10) complex: implications for its role in viral genome stability and inhibitor identification. Nucleic Acids Research, 2022, 50, 1484-1500.	6.5	36
4	Tinker, tailor, antiviral: RNA virus inhibition by induced recombination. Trends in Biochemical Sciences, 2022, , .	3.7	0
5	The Host Factor ANP32A Is Required for Influenza A Virus vRNA and cRNA Synthesis. Journal of Virology, 2022, 96, jvi0209221.	1.5	15
6	The C-terminal LCAR of host ANP32 proteins interacts with the influenza A virus nucleoprotein to promote the replication of the viral RNA genome. Nucleic Acids Research, 2022, 50, 5713-5725.	6.5	18
7	Structural insights into RNA polymerases of negative-sense RNA viruses. Nature Reviews Microbiology, 2021, 19, 303-318.	13.6	71
8	Viral Transcription. , 2021, , 439-443.		0
9	Enisamium Reduces Influenza Virus Shedding and Improves Patient Recovery by Inhibiting Viral RNA Polymerase Activity. Antimicrobial Agents and Chemotherapy, 2021, 65, .	1.4	10
10	Influenza Virus RNA Synthesis and the Innate Immune Response. Viruses, 2021, 13, 780.	1.5	18
11	Zinc-Embedded Polyamide Fabrics Inactivate SARS-CoV-2 and Influenza A Virus. ACS Applied Materials & Interfaces, 2021, 13, 30317-30325.	4.0	42
12	Structure of an H3N2 influenza virus nucleoprotein. Acta Crystallographica Section F, Structural Biology Communications, 2021, 77, 208-214.	0.4	8
13	Synergistic Effect between 3â€²-Terminal Noncoding and Adjacent Coding Regions of the Influenza A Virus Hemagglutinin Segment on Template Preference. Journal of Virology, 2021, 95, e0087821.	1.5	6
14	Enisamium Inhibits SARS-CoV-2 RNA Synthesis. Biomedicines, 2021, 9, 1254.	1.4	4
15	Understanding viral replication and transcription using single-molecule techniques. The Enzymes, 2021, 49, 83-113.	0.7	0
16	The influenza virus RNA polymerase as an innate immune agonist and antagonist. Cellular and Molecular Life Sciences, 2021, 78, 7237-7256.	2.4	13
17	The SARS-CoV-2 RNA polymerase is a viral RNA capping enzyme. Nucleic Acids Research, 2021, 49, 13019-13030.	6.5	29
18	Influenza A Virus Defective Viral Genomes Are Inefficiently Packaged into Virions Relative to Wild-Type Genomic RNAs. MBio, 2021, 12, e0295921.	1.8	17

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19	Structure and Function of the Influenza Virus Transcription and Replication Machinery. Cold Spring Harbor Perspectives in Medicine, 2020, 10, a038398.	2.9	85
20	Host ANP32A mediates the assembly of the influenza virus replicase. Nature, 2020, 587, 638-643.	13.7	89
21	Insight into the multifunctional RNA synthesis machine of rabies virus. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3895-3897.	3.3	3
22	OTUB1 Is a Key Regulator of RIG-I-Dependent Immune Signaling and Is Targeted for Proteasomal Degradation by Influenza A NS1. Cell Reports, 2020, 30, 1570-1584.e6.	2.9	46
23	Mutation of an Influenza Virus Polymerase 3â€² RNA Promoter Binding Site Inhibits Transcription Elongation. Journal of Virology, 2020, 94, .	1.5	9
24	The structure of the influenza A virus genome. Nature Microbiology, 2019, 4, 1781-1789.	5.9	157
25	Design, Synthesis, and Biological Evaluation of Novel Indoles Targeting the Influenza PB2 Cap Binding Region. Journal of Medicinal Chemistry, 2019, 62, 9680-9690.	2.9	21
26	Structures of influenza A virus RNA polymerase offer insight into viral genome replication. Nature, 2019, 573, 287-290.	13.7	151
27	Flu transcription captured in action. Nature Structural and Molecular Biology, 2019, 26, 393-395.	3.6	1
28	Single-Cell Virus Sequencing of Influenza Infections That Trigger Innate Immunity. Journal of Virology, 2019, 93, .	1.5	93
29	Real-time analysis of single influenza virus replication complexes reveals large promoter-dependent differences in initiation dynamics. Nucleic Acids Research, 2019, 47, 6466-6477.	6.5	12
30	Interplay between Influenza Virus and the Host RNA Polymerase II Transcriptional Machinery. Trends in Microbiology, 2019, 27, 398-407.	3.5	62
31	The role of RNA-RNA interactions in the assembly and reassortment of influenza A viruses. Access Microbiology, 2019, 1, .	0.2	0
32	Initiation, Elongation, and Realignment during Influenza Virus mRNA Synthesis. Journal of Virology, 2018, 92, .	1.5	30
33	A Mechanism for Priming and Realignment during Influenza A Virus Replication. Journal of Virology, 2018, 92, .	1.5	34
34	The mechanism of resistance to favipiravir in influenza. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11613-11618.	3.3	243
35	Mini viral RNAs act as innate immune agonists during influenza virus infection. Nature Microbiology, 2018, 3, 1234-1242.	5.9	96
36	Influenza Virus Mounts a Two-Pronged Attack on Host RNA Polymerase II Transcription. Cell Reports, 2018, 23, 2119-2129.e3.	2.9	81

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37	Assays to Measure the Activity of Influenza Virus Polymerase. Methods in Molecular Biology, 2018, 1836, 343-374.	0.4	26
38	A Mechanism for the Activation of the Influenza Virus Transcriptase. Molecular Cell, 2018, 70, 1101-1110.e4.	4.5	42
39	Amino acid substitutions affecting aspartic acid 605 and valine 606 decrease the interaction strength between the influenza virus RNA polymerase PB2 '627' domain and the viral nucleoprotein. PLoS ONE, 2018, 13, e0191226.	1.1	8
40	The Surface-Exposed PA ⁵¹⁻⁷² -Loop of the Influenza A Virus Polymerase Is Required for Viral Genome Replication. Journal of Virology, 2018, 92, .	1.5	15
41	Role of the PB2 627 Domain in Influenza A Virus Polymerase Function. Journal of Virology, 2017, 91, .	1.5	39
42	Nidovirus RNA polymerases: Complex enzymes handling exceptional RNA genomes. Virus Research, 2017, 234, 58-73.	1.1	96
43	Filamentous influenza viruses. Journal of General Virology, 2016, 97, 1755-1764.	1.3	77
44	Influenza virus RNA polymerase: insights into the mechanisms of viral RNA synthesis. Nature Reviews Microbiology, 2016, 14, 479-493.	13.6	342
45	Single-molecule FRET reveals the pre-initiation and initiation conformations of influenza virus promoter RNA. Nucleic Acids Research, 2016, 44, gkw884.	6.5	32
46	The PB2 Subunit of the Influenza A Virus RNA Polymerase Is Imported into the Mitochondrial Matrix. Journal of Virology, 2016, 90, 8729-8738.	1.5	26
47	The role of the priming loop in influenza A virus RNA synthesis. Nature Microbiology, 2016, 1, .	5.9	89
48	Moving On Out: Transport and Packaging of Influenza Viral RNA into Virions. Annual Review of Virology, 2016, 3, 411-427.	3.0	45
49	RNA-Free and Ribonucleoprotein-Associated Influenza Virus Polymerases Directly Bind the Serine-5-Phosphorylated Carboxyl-Terminal Domain of Host RNA Polymerase II. Journal of Virology, 2016, 90, 6014-6021.	1.5	34
50	Regulation of Influenza A Virus Nucleoprotein Oligomerization by Phosphorylation. Journal of Virology, 2015, 89, 1452-1455.	1.5	46
51	Influenza virus activation of the interferon system. Virus Research, 2015, 209, 11-22.	1.1	164
52	Crystal structure of the RNA-dependent RNA polymerase from influenza C virus. Nature, 2015, 527, 114-117.	13.7	145
53	The RNA-dependent RNA polymerase of the influenza A virus. Future Virology, 2014, 9, 863-876.	0.9	35
54	Influenza A Virus Assembly Intermediates Fuse in the Cytoplasm. PLoS Pathogens, 2014, 10, e1003971.	2.1	128

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55	Host Restriction of Influenza Virus Polymerase Activity by PB2 627E Is Diminished on Short Viral Templates in a Nucleoprotein-Independent Manner. Journal of Virology, 2014, 88, 339-344.	1.5	32
56	Interactome Analysis of the Influenza A Virus Transcription/Replication Machinery Identifies Protein Phosphatase 6 as a Cellular Factor Required for Efficient Virus Replication. Journal of Virology, 2014, 88, 13284-13299.	1.5	54
57	Single-molecule FRET reveals a corkscrew RNA structure for the polymerase-bound influenza virus promoter. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3335-42.	3.3	46
58	Molecular Determinants of Pathogenicity in the Polymerase Complex. Current Topics in Microbiology and Immunology, 2014, 385, 35-60.	0.7	46
59	Common and unique features of viral RNA-dependent polymerases. Cellular and Molecular Life Sciences, 2014, 71, 4403-4420.	2.4	207
60	Conserved and host-specific features of influenza virion architecture. Nature Communications, 2014, 5, 4816.	5.8	214
61	Isolation and characterization of the positive-sense replicative intermediate of a negative-strand RNA virus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4238-45.	3.3	118
62	The role and assembly mechanism of nucleoprotein in influenza A virus ribonucleoprotein complexes. Nature Communications, 2013, 4, 1591.	5.8	105
63	Uncoupling of Influenza A Virus Transcription and Replication through Mutation of the Unpaired Adenosine in the Viral RNA Promoter. Journal of Virology, 2013, 87, 10381-10384.	1.5	7
64	Transport of the Influenza Virus Genome from Nucleus to Nucleus. Viruses, 2013, 5, 2424-2446.	1.5	71
65	Biogenesis, assembly, and export of viral messenger ribonucleoproteins in the influenza A virus infected cell. RNA Biology, 2013, 10, 1274-1282.	1.5	51
66	Emerging Roles for the Influenza A Virus Nuclear Export Protein (NEP). PLoS Pathogens, 2012, 8, e1003019.	2.1	128
67	Mapping the Phosphoproteome of Influenza A and B Viruses by Mass Spectrometry. PLoS Pathogens, 2012, 8, e1002993.	2.1	121
68	The accumulation of influenza A virus segment 7 spliced mRNAs is regulated by the NS1 protein. Journal of General Virology, 2012, 93, 113-118.	1.3	48
69	The SARS-coronavirus nsp7+nsp8 complex is a unique multimeric RNA polymerase capable of both de novo initiation and primer extension. Nucleic Acids Research, 2012, 40, 1737-1747.	6.5	205
70	Influenza Polymerase Activity Correlates with the Strength of Interaction between Nucleoprotein and PB2 through the Host-Specific Residue K/E627. PLoS ONE, 2012, 7, e36415.	1.1	41
71	Mechanism of Nucleic Acid Unwinding by SARS-CoV Helicase. PLoS ONE, 2012, 7, e36521.	1.1	150
72	Genome-Wide Analysis of PDZ Domain Binding Reveals Inherent Functional Overlap within the PDZ Interaction Network. PLoS ONE, 2011, 6, e16047.	1.1	42

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73	Differential use of importin-Î± isoforms governs cell tropism and host adaptation of influenza virus. Nature Communications, 2011, 2, 156.	5.8	222
74	The Influenza A Virus NS1 Protein Interacts with the Nucleoprotein of Viral Ribonucleoprotein Complexes. Journal of Virology, 2011, 85, 5228-5231.	1.5	51
75	The RNA polymerase activity of SARS-coronavirus nsp12 is primer dependent. Nucleic Acids Research, 2011, 39, 9458-9458.	6.5	3
76	Cellular cap-binding proteins associate with influenza virus mRNAs. Journal of General Virology, 2011, 92, 1627-1634.	1.3	38
77	Characterization of the interaction between the influenza A virus polymerase subunit PB1 and the host nuclear import factor Ran-binding protein 5. Journal of General Virology, 2011, 92, 1859-1869.	1.3	48
78	The Nature of Protein Domain Evolution: Shaping the Interaction Network. Current Genomics, 2010, 11, 368-376.	0.7	46
79	Mechanisms and functional implications of the degradation of host RNA polymerase II in influenza virus infected cells. Virology, 2010, 396, 125-134.	1.1	64
80	The PB2 Subunit of the Influenza Virus RNA Polymerase Affects Virulence by Interacting with the Mitochondrial Antiviral Signaling Protein and Inhibiting Expression of Beta Interferon. Journal of Virology, 2010, 84, 8433-8445.	1.5	187
81	Functional Analysis of the Influenza Virus H5N1 Nucleoprotein Tail Loop Reveals Amino Acids That Are Crucial for Oligomerization and Ribonucleoprotein Activities. Journal of Virology, 2010, 84, 7337-7345.	1.5	62
82	Integrity of the Early Secretory Pathway Promotes, but Is Not Required for, Severe Acute Respiratory Syndrome Coronavirus RNA Synthesis and Virus-Induced Remodeling of Endoplasmic Reticulum Membranes. Journal of Virology, 2010, 84, 833-846.	1.5	51
83	Association of the Influenza Virus RNA Polymerase Subunit PB2 with the Host Chaperonin CCT. Journal of Virology, 2010, 84, 8691-8699.	1.5	68
84	The RNA polymerase activity of SARS-coronavirus nsp12 is primer dependent. Nucleic Acids Research, 2010, 38, 203-214.	6.5	199
85	Zn2+ Inhibits Coronavirus and Arterivirus RNA Polymerase Activity In Vitro and Zinc Ionophores Block the Replication of These Viruses in Cell Culture. PLoS Pathogens, 2010, 6, e1001176.	2.1	685
86	The role of the influenza virus RNA polymerase in host shut-off. Virulence, 2010, 1, 436-439.	1.8	42
87	Quantitative Guidelines for Force Calibration through Spectral Analysis ofÂMagnetic Tweezers Data. Biophysical Journal, 2010, 99, 1292-1302.	0.2	97
88	RIG-I Detects Viral Genomic RNA during Negative-Strand RNA Virus Infection. Cell, 2010, 140, 397-408.	13.5	508
89	Large virus for an even bigger task: can the mimivirus close the gene-therapy vector void?. Future Virology, 2009, 4, 231-239.	0.9	1
90	NS2/NEP protein regulates transcription and replication of the influenza virus RNA genome. Journal of General Virology, 2009, 90, 1398-1407.	1.3	177

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91	Crystal structure of an avian influenza polymerase PAN reveals an endonuclease active site. Nature, 2009, 458, 909-913.	13.7	437
92	The lim domain only protein 7 is important in zebrafish heart development. Developmental Dynamics, 2008, 237, 3940-3952.	0.8	31
93	A cluster of conserved basic amino acids near the C-terminus of the PB1 subunit of the influenza virus RNA polymerase is involved in the regulation of viral transcription. Virology, 2008, 373, 202-210.	1.1	19
94	Linking Fold, Function and Phylogeny: A Comparative Genomics View on Protein (Domain) Evolution. Current Genomics, 2008, 9, 88-96.	0.7	6
95	The nested open reading frame in the Epstein-Barr virus nuclear antigen-1 mRNA encodes a protein capable of inhibiting antigen presentation in cis. Molecular Immunology, 2007, 44, 3588-3596.	1.0	13
96	PDZ and LIM Domain-Encoding Genes: Molecular Interactions and their Role in Development. Scientific World Journal, The, 2007, 7, 1470-1492.	0.8	87
97	Molecular evolution of the MAGUK family in metazoan genomes. BMC Evolutionary Biology, 2007, 7, 129.	3.2	63
98	Gene expression patterns of the ALP family during zebrafish development. Gene Expression Patterns, 2007, 7, 297-305.	0.3	12
99	Comparative analysis of splice form-specific expression of LIM Kinases during zebrafish development. Gene Expression Patterns, 2007, 7, 620-629.	0.3	10
100	Insights into the Molecular Evolution of the PDZ/LIM Family and Identification of a Novel Conserved Protein Motif. PLoS ONE, 2007, 2, e189.	1.1	60
101	Characterization of a mitochondrial-targeting signal in the PB2 protein of influenza viruses. Virology, 2006, 344, 492-508.	1.1	54
102	Role of Ran Binding Protein 5 in Nuclear Import and Assembly of the Influenza Virus RNA Polymerase Complex. Journal of Virology, 2006, 80, 11911-11919.	1.5	126
103	In Vitro Assembly of PB2 with a PB1-PA Dimer Supports a New Model of Assembly of Influenza A Virus Polymerase Subunits into a Functional Trimeric Complex. Journal of Virology, 2005, 79, 8669-8674.	1.5	134
104	Association of the Influenza A Virus RNA-Dependent RNA Polymerase with Cellular RNA Polymerase II. Journal of Virology, 2005, 79, 5812-5818.	1.5	197
105	The PA Subunit Is Required for Efficient Nuclear Accumulation of the PB1 Subunit of the Influenza A Virus RNA Polymerase Complex. Journal of Virology, 2004, 78, 9144-9153.	1.5	143
106	A Single Amino Acid Mutation in the PA Subunit of the Influenza Virus RNA Polymerase Promotes the Generation of Defective Interfering RNAs. Journal of Virology, 2003, 77, 5017-5020.	1.5	74
107	A Single Amino Acid Mutation in the PA Subunit of the Influenza Virus RNA Polymerase Inhibits Endonucleolytic Cleavage of Capped RNAs. Journal of Virology, 2002, 76, 8989-9001.	1.5	235
108	Messenger RNAs that are not synthesized by RNA polymerase II can be 3â€² end cleaved and polyadenylated. EMBO Reports, 2000, 1, 513-518.	2.0	14

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109	Polyuridylated mRNA Synthesized by a Recombinant Influenza Virus Is Defective in Nuclear Export. Journal of Virology, 2000, 74, 418-427.	1.5	30
110	Direct Evidence that the Poly(A) Tail of Influenza A Virus mRNA Is Synthesized by Reiterative Copying of a U Track in the Virion RNA Template. Journal of Virology, 1999, 73, 3473-3476.	1.5	178
111	Rescue of Influenza A Virus from Recombinant DNA. Journal of Virology, 1999, 73, 9679-9682.	1.5	741