Paul G Ahlquist

List of Publications by Year
in descending order

87 papers	8,102 citations	71004 43 h-index	58552 86 g-index
89 all docs	89 docs citations	89 times ranked	7332 citing authors

#	Article	IF	Citations
1	Perturbing HIV-1 Ribosomal Frameshifting Frequency Reveals a <i>cis</i> Preference for Gag-Pol Incorporation into Assembling Virions. Journal of Virology, 2022, 96, JVI0134921.	1.5	5
2	Human cytomegalovirus lytic infection inhibits replication-dependent histone synthesis and requires stem loop binding protein function. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2122174119.	3.3	3
3	HIV RGB: Automated Single-Cell Analysis of HIV-1 Rev-Dependent RNA Nuclear Export and Translation Using Image Processing in KNIME. Viruses, 2022, 14, 903.	1.5	1
4	Crowning Touches in Positive-Strand RNA Virus Genome Replication Complex Structure and Function. Annual Review of Virology, 2022, 9, 193-212.	3.0	8
5	ZBTB2 represses HIV-1 transcription and is regulated by HIV-1 Vpr and cellular DNA damage responses. PLoS Pathogens, 2021, 17, e1009364.	2.1	9
6	Transmembrane redox regulation of genome replication functions in positive-strand RNA viruses. Current Opinion in Virology, 2021, 47, 25-31.	2.6	4
7	ESCRT components ISTL1 andLIP5 are required for tapetal function and pollen viability. Plant Cell, 2021, 33, 2850-2868.	3.1	19
8	Cryo-electron microscopy of nodavirus RNA replication organelles illuminates positive-strand RNA virus genome replication. Current Opinion in Virology, 2021, 51, 74-79.	2.6	16
9	Subdomain cryo-EM structure of nodaviral replication protein A crown complex provides mechanistic insights into RNA genome replication. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18680-18691.	3.3	36
10	Coronavirus dons a new crown. Science, 2020, 369, 1306-1307.	6.0	18
11	Augmenting subnetwork inference with information extracted from the scientific literature. PLoS Computational Biology, 2019, 15, e1006758.	1.5	0
12	Organelle luminal dependence of (+)strand RNA virus replication reveals a hidden druggable target. Science Advances, 2018, 4, eaap8258.	4.7	16
13	Cowpea chlorotic mottle bromovirus replication proteins support template-selective RNA replication in Saccharomyces cerevisiae. PLoS ONE, 2018, 13, e0208743.	1.1	3
14	Intermolecular RNA Recombination Occurs at Different Frequencies in Alternate Forms of Brome Mosaic Virus RNA Replication Compartments. Viruses, 2018, 10, 131.	1.5	15
15	ESCRT-mediated vesicle concatenation in plant endosomes. Journal of Cell Biology, 2017, 216, 2167-2177.	2.3	51
16	Diverse activities of viralcis-acting RNA regulatory elements revealed using multicolor, long-term, single-cell imaging. Molecular Biology of the Cell, 2017, 28, 476-487.	0.9	10
17	Human papillomavirus oncogenes reprogram the cervical cancer microenvironment independently of and synergistically with estrogen. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9076-E9085.	3.3	59
18	Cryo-electron tomography reveals novel features of a viral RNA replication compartment. ELife, 2017, 6, .	2.8	89

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19	Systematic identification of Ctr9 regulome in ERÎ±-positive breast cancer. BMC Genomics, 2016, 17, 902.	1.2	8
20	HIV-1 and M-PMV RNA Nuclear Export Elements Program Viral Genomes for Distinct Cytoplasmic Trafficking Behaviors. PLoS Pathogens, 2016, 12, e1005565.	2.1	48
21	Host ESCRT Proteins Are Required for Bromovirus RNA Replication Compartment Assembly and Function. PLoS Pathogens, 2015, 11, e1004742.	2.1	78
22	Molecular transitions from papillomavirus infection to cervical precancer and cancer: Role of stromal estrogen receptor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3255-64.	3.3	197
23	Inferring Host Gene Subnetworks Involved in Viral Replication. PLoS Computational Biology, 2014, 10, e1003626.	1.5	6
24	Cooperativity among Rev-Associated Nuclear Export Signals Regulates HIV-1 Gene Expression and Is a Determinant of Virus Species Tropism. Journal of Virology, 2014, 88, 14207-14221.	1.5	23
25	Sulfonation pathway inhibitors block reactivation of latent HIV-1. Virology, 2014, 471-473, 1-12.	1.1	7
26	Structural analysis and modeling reveals new mechanisms governing ESCRT-III spiral filament assembly. Journal of Cell Biology, 2014, 206, 763-777.	2.3	115
27	CARM1 Methylates Chromatin Remodeling Factor BAF155 to Enhance Tumor Progression and Metastasis. Cancer Cell, 2014, 25, 21-36.	7.7	215
28	Genome-Wide Analysis of Host Factors in Nodavirus RNA Replication. PLoS ONE, 2014, 9, e95799.	1.1	11
29	ZASC1 Stimulates HIV-1 Transcription Elongation by Recruiting P-TEFb and TAT to the LTR Promoter. PLoS Pathogens, 2013, 9, e1003712.	2.1	13
30	Limited Agreement of Independent RNAi Screens for Virus-Required Host Genes Owes More to False-Negative than False-Positive Factors. PLoS Computational Biology, 2013, 9, e1003235.	1.5	46
31	Host Acyl Coenzyme A Binding Protein Regulates Replication Complex Assembly and Activity of a Positive-Strand RNA Virus. Journal of Virology, 2012, 86, 5110-5121.	1.5	36
32	Bromovirus RNA Replication Compartment Formation Requires Concerted Action of 1a's Self-Interacting RNA Capping and Helicase Domains. Journal of Virology, 2012, 86, 821-834.	1.5	31
33	Role of host reticulon proteins in rearranging membranes for positive-strand RNA virus replication. Current Opinion in Microbiology, 2012, 15, 519-524.	2.3	52
34	Novel antivirals inhibit early steps in HPV infection. Antiviral Research, 2012, 93, 280-287.	1.9	6
35	Systematic Identification of Novel, Essential Host Genes Affecting Bromovirus RNA Replication. PLoS ONE, 2011, 6, e23988.	1.1	33
36	Top 10 plant viruses in molecular plant pathology. Molecular Plant Pathology, 2011, 12, 938-954.	2.0	936

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37	Intersection of the Multivesicular Body Pathway and Lipid Homeostasis in RNA Replication by a Positive-Strand RNA Virus. Journal of Virology, 2011, 85, 5494-5503.	1.5	34
38	Nodavirus-Induced Membrane Rearrangement in Replication Complex Assembly Requires Replicase Protein A, RNA Templates, and Polymerase Activity. Journal of Virology, 2010, 84, 12492-12503.	1.5	48
39	Membrane-shaping host reticulon proteins play crucial roles in viral RNA replication compartment formation and function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16291-16296.	3.3	129
40	Cellular Transcription Factor ZASC1 Regulates Murine Leukemia Virus Transcription. Journal of Virology, 2010, 84, 7473-7483.	1.5	12
41	Cytoplasmic Viral Replication Complexes. Cell Host and Microbe, 2010, 8, 77-85.	5.1	306
42	Organelle-Like Membrane Compartmentalization of Positive-Strand RNA Virus Replication Factories. Annual Review of Microbiology, 2010, 64, 241-256.	2.9	389
43	5â€² <i>cis</i> Elements Direct Nodavirus RNA1 Recruitment to Mitochondrial Sites of Replication Complex Formation. Journal of Virology, 2009, 83, 2976-2988.	1.5	32
44	An Amphipathic Î±-Helix Controls Multiple Roles of Brome Mosaic Virus Protein 1a in RNA Replication Complex Assembly and Function. PLoS Pathogens, 2009, 5, e1000351.	2.1	80
45	Establishment of Human Papillomavirus Infection Requires Cell Cycle Progression. PLoS Pathogens, 2009, 5, e1000318.	2.1	271
46	The Host Cell Sulfonation Pathway Contributes to Retroviral Infection at a Step Coincident with Provirus Establishment. PLoS Pathogens, 2008, 4, e1000207.	2.1	27
47	Three-Dimensional Analysis of a Viral RNA Replication Complex Reveals a Virus-Induced Mini-Organelle. PLoS Biology, 2007, 5, e220.	2.6	257
48	Nodavirus RNA Replication Protein A Induces Membrane Association of Genomic RNA. Journal of Virology, 2007, 81, 4633-4644.	1.5	42
49	Interactions between Brome Mosaic Virus RNAs and Cytoplasmic Processing Bodies. Journal of Virology, 2007, 81, 9759-9768.	1.5	64
50	Parallels among positive-strand RNA viruses, reverse-transcribing viruses and double-stranded RNA viruses. Nature Reviews Microbiology, 2006, 4, 371-382.	13.6	245
51	Inducible Yeast System for Viral RNA Recombination Reveals Requirement for an RNA Replication Signal on Both Parental RNAs. Journal of Virology, 2006, 80, 8316-8328.	1.5	17
52	Virus Evolution: Fitting Lifestyles to a T. Current Biology, 2005, 15, R465-R467.	1.8	16
53	Detecting protein-protein interaction in live yeast by flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 63A, 77-86.	1.1	22
54	High-throughput isolation of <i>Saccharomyces cerevisiae</i> RNA. BioTechniques, 2005, 38, 868-870.	0.8	8

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55	Isolation of Cell Lines That Show Novel, Murine Leukemia Virus-Specific Blocks to Early Steps of Retroviral Replication. Journal of Virology, 2005, 79, 12969-12978.	1.5	20
56	Brome Mosaic Virus 1a Nucleoside Triphosphatase/Helicase Domain Plays Crucial Roles in Recruiting RNA Replication Templates. Journal of Virology, 2005, 79, 13747-13758.	1.5	86
57	In Vivo Self-Interaction of Nodavirus RNA Replicase Protein A Revealed by Fluorescence Resonance Energy Transfer. Journal of Virology, 2005, 79, 8909-8919.	1.5	45
58	Mutual Interference between Genomic RNA Replication and Subgenomic mRNA Transcription in Brome Mosaic Virus. Journal of Virology, 2005, 79, 1438-1451.	1.5	27
59	Production of infectious human papillomavirus independently of viral replication and epithelial cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9311-9316.	3.3	109
60	Viral and host determinants of RNA virus vector replication and expression. Vaccine, 2005, 23, 1784-1787.	1.7	27
61	Alternate, virus-induced membrane rearrangements support positive-strand RNA virus genome replication. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11263-11268.	3.3	164
62	BROMEMOSAICVIRUSRNA REPLICATION: Revealing the Role of the Host in RNA Virus Replication. Annual Review of Phytopathology, 2003, 41, 77-98.	3.5	146
63	Host Factors in Positive-Strand RNA Virus Genome Replication. Journal of Virology, 2003, 77, 8181-8186.	1.5	429
64	Systematic, genome-wide identification of host genes affecting replication of a positive-strand RNA virus. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15764-15769.	3.3	234
65	Engineered Retargeting of Viral RNA Replication Complexes to an Alternative Intracellular Membrane. Journal of Virology, 2003, 77, 12193-12202.	1.5	75
66	An Alternate Pathway for Recruiting Template RNA to the Brome Mosaic Virus RNA Replication Complex. Journal of Virology, 2003, 77, 2568-2577.	1.5	35
67	Mutation of Host dnaJ Homolog Inhibits Brome Mosaic Virus Negative-Strand RNA Synthesis. Journal of Virology, 2003, 77, 2990-2997.	1.5	78
68	Yeast Lsm1p-7p/Pat1p Deadenylation-Dependent mRNA-Decapping Factors Are Required for Brome Mosaic Virus Genomic RNA Translation. Molecular and Cellular Biology, 2003, 23, 4094-4106.	1.1	85
69	Membrane Synthesis, Specific Lipid Requirements, and Localized Lipid Composition Changes Associated with a Positive-Strand RNA Virus RNA Replication Protein. Journal of Virology, 2003, 77, 12819-12828.	1.5	100
70	Flock House Virus RNA Polymerase Is a Transmembrane Protein with Amino-Terminal Sequences Sufficient for Mitochondrial Localization and Membrane Insertion. Journal of Virology, 2002, 76, 9856-9867.	1.5	114
71	Long-Distance Base Pairing in Flock House Virus RNA1 Regulates Subgenomic RNA3 Synthesis and RNA2 Replication. Journal of Virology, 2002, 76, 3905-3919.	1.5	84
72	RNA-Dependent RNA Polymerases, Viruses, and RNA Silencing. Science, 2002, 296, 1270-1273.	6.0	401

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73	A Positive-Strand RNA Virus Replication Complex Parallels Form and Function of Retrovirus Capsids. Molecular Cell, 2002, 9, 505-514.	4.5	391
74	Identification of Sequences in Brome Mosaic Virus Replicase Protein 1a That Mediate Association with Endoplasmic Reticulum Membranes. Journal of Virology, 2001, 75, 12370-12381.	1.5	107
75	Mutation of Host Î”9 Fatty Acid Desaturase Inhibits Brome Mosaic Virus RNA Replication between Template Recognition and RNA Synthesis. Journal of Virology, 2001, 75, 2097-2106.	1.5	120
76	Brome Mosaic Virus Protein 1a Recruits Viral RNA2 to RNA Replication through a 5â€² Proximal RNA2 Signal. Journal of Virology, 2001, 75, 3207-3219.	1.5	101
77	Flock House Virus RNA Replicates on Outer Mitochondrial Membranes in Drosophila Cells. Journal of Virology, 2001, 75, 11664-11676.	1.5	190
78	Helicase and Capping Enzyme Active Site Mutations in Brome Mosaic Virus Protein 1a Cause Defects in Template Recruitment, Negative-Strand RNA Synthesis, and Viral RNA Capping. Journal of Virology, 2000, 74, 8803-8811.	1.5	93
79	Brome Mosaic Virus Polymerase-Like Protein 2a Is Directed to the Endoplasmic Reticulum by Helicase-Like Viral Protein 1a. Journal of Virology, 2000, 74, 4310-4318.	1.5	125
80	The 3a cell-to-cell movement gene is dispensable for cell-to-cell transmission of brome mosaic virus RNA replicons in yeast but retained over 1045-fold amplification. Journal of General Virology, 2000, 81, 2307-2311.	1.3	4
81	Putative RNA Capping Activities Encoded by Brome Mosaic Virus: Methylation and Covalent Binding of Guanylate by Replicase Protein 1a. Journal of Virology, 1999, 73, 10061-10069.	1.5	94
82	Brome Mosaic Virus RNA Replication Proteins 1a and 2a Colocalize and 1a Independently Localizes on the Yeast Endoplasmic Reticulum. Journal of Virology, 1999, 73, 10303-10309.	1.5	119
83	A Brome Mosaic Virus Intergenic RNA3 Replication Signal Functions with Viral Replication Protein 1a To Dramatically Stabilize RNA In Vivo. Journal of Virology, 1999, 73, 2622-2632.	1.5	132
84	cis-Acting Signals in Bromovirus RNA Replication and Gene Expression: Networking with Viral Proteins and Host Factors. Seminars in Virology, 1997, 8, 221-230.	4.1	35
85	Gene amplification and expression by RNA viruses and potential for further application to plant gene transfer. Physiologia Plantarum, 1990, 79, 163-167.	2.6	14
86	Chloroplast import characteristics of chimeric proteins. Plant Molecular Biology, 1989, 12, 13-18.	2.0	22
87	Two-step binding of eukaryotic ribosomes to brome mosaic virus RNA3. Nature, 1979, 281, 277-282.	13.7	74