

# Andrew D Davidson

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

3,801  
citations

279701

23  
h-index

302012

39  
g-index

56  
all docs

56  
docs citations

56  
times ranked

8161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuropilin-1 is a host factor for SARS-CoV-2 infection. <i>Science</i> , 2020, 370, 861-865.	6.0	1,015
2	The furin cleavage site in the SARS-CoV-2 spike protein is required for transmission in ferrets. <i>Nature Microbiology</i> , 2021, 6, 899-909.	5.9	556
3	Characterisation of the transcriptome and proteome of SARS-CoV-2 reveals a cell passage induced in-frame deletion of the furin-like cleavage site from the spike glycoprotein. <i>Genome Medicine</i> , 2020, 12, 68.	3.6	386
4	Free fatty acid binding pocket in the locked structure of SARS-CoV-2 spike protein. <i>Science</i> , 2020, 370, 725-730.	6.0	348
5	The SARS-CoV-2 Spike protein disrupts human cardiac pericytes function through CD147 receptor-mediated signalling: a potential non-infective mechanism of COVID-19 microvascular disease. <i>Clinical Science</i> , 2021, 135, 2667-2689.	1.8	97
6	The ADP-ribose-1 $\beta$ -monophosphatase domains of severe acute respiratory syndrome coronavirus and human coronavirus 229E mediate resistance to antiviral interferon responses. <i>Journal of General Virology</i> , 2011, 92, 1899-1905.	1.3	88
7	Development of a chimeric Zika vaccine using a licensed live-attenuated flavivirus vaccine as backbone. <i>Nature Communications</i> , 2018, 9, 673.	5.8	84
8	The dynamics of SARS-CoV-2 infectivity with changes in aerosol microenvironment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	84
9	KIR2DS2 recognizes conserved peptides derived from viral helicases in the context of HLA-C. <i>Science Immunology</i> , 2017, 2, .	5.6	78
10	Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS-CoV-2 Spike Protein**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7098-7110.	7.2	77
11	Chapter 2 New Insights into Flavivirus Nonstructural Protein 5. <i>Advances in Virus Research</i> , 2009, 74, 41-101.	0.9	76
12	Sensing of Immature Particles Produced by Dengue Virus Infected Cells Induces an Antiviral Response by Plasmacytoid Dendritic Cells. <i>PLoS Pathogens</i> , 2014, 10, e1004434.	2.1	65
13	High-Throughput Quantitative Proteomic Analysis of Dengue Virus Type 2 Infected A549 Cells. <i>PLoS ONE</i> , 2014, 9, e93305.	1.1	62
14	Amplicon-Based Detection and Sequencing of SARS-CoV-2 in Nasopharyngeal Swabs from Patients With COVID-19 and Identification of Deletions in the Viral Genome That Encode Proteins Involved in Interferon Antagonism. <i>Viruses</i> , 2020, 12, 1164.	1.5	51
15	Proteomics informed by transcriptomics for characterising active transposable elements and genome annotation in <i>Aedes aegypti</i> . <i>BMC Genomics</i> , 2017, 18, 101.	1.2	49
16	Limitations of using feline coronavirus spike protein gene mutations to diagnose feline infectious peritonitis. <i>Veterinary Research</i> , 2017, 48, 60.	1.1	47
17	SARS-CoV-2 vaccine ChAdOx1 nCoV-19 infection of human cell lines reveals low levels of viral backbone gene transcription alongside very high levels of SARS-CoV-2 S glycoprotein gene transcription. <i>Genome Medicine</i> , 2021, 13, 43.	3.6	44
18	<i>Aedes aegypti</i> (Aag2)-derived clonal mosquito cell lines reveal the effects of pre-existing persistent infection with the insect-specific bunyavirus Phasi Charoen-like virus on arbovirus replication. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007346.	1.3	38

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19	Evaluation of the antiviral activity of orlistat (tetrahydrolipstatin) against dengue virus, Japanese encephalitis virus, Zika virus and chikungunya virus. <i>Scientific Reports</i> , 2020, 10, 1499.	1.6	38
20	Histidine 39 in the dengue virus type 2 M protein has an important role in virus assembly. <i>Journal of General Virology</i> , 2004, 85, 3627-3636.	1.3	37
21	A Modular Vaccine Platform Combining Self-Assembled Peptide Cages and Immunogenic Peptides. <i>Advanced Functional Materials</i> , 2019, 29, 1807357.	7.8	36
22	Young infants exhibit robust functional antibody responses and restrained IFN- $\beta$ production to SARS-CoV-2. <i>Cell Reports Medicine</i> , 2021, 2, 100327.	3.3	29
23	Immune pathway-specific immune assays reveal NF- $\kappa$ B stimulation by viral RNA PAMPs in <i>Aedes aegypti</i> Aag2 cells. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0008524.	1.3	28
24	BASP1 interacts with oestrogen receptor $\alpha$ and modifies the tamoxifen response. <i>Cell Death and Disease</i> , 2017, 8, e2771-e2771.	2.7	26
25	Relationship between adenovirus DNA replication proteins and nucleolar proteins B23.1 and B23.2. <i>Journal of General Virology</i> , 2007, 88, 3244-3248.	1.3	26
26	Post-acute COVID-19 associated with evidence of bystander T-cell activation and a recurring antibiotic-resistant bacterial pneumonia. <i>ELife</i> , 2020, 9, .	2.8	26
27	Structural insights in cell-type specific evolution of intra-host diversity by SARS-CoV-2. <i>Nature Communications</i> , 2022, 13, 222.	5.8	23
28	The fatty acid site is coupled to functional motifs in the SARS-CoV-2 spike protein and modulates spike allosteric behaviour. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 139-147.	1.9	19
29	ESCPE-1 mediates retrograde endosomal sorting of the SARS-CoV-2 host factor Neuropilin-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	17
30	Measuring stability of virus in aerosols under varying environmental conditions. <i>Aerosol Science and Technology</i> , 2021, 55, 1315-1320.	1.5	15
31	TMPRSS2 promotes SARS-CoV-2 evasion from NCOA7-mediated restriction. <i>PLoS Pathogens</i> , 2021, 17, e1009820.	2.1	13
32	Amplicon and Metagenomic Analysis of Middle East Respiratory Syndrome (MERS) Coronavirus and the Microbiome in Patients with Severe MERS. <i>MSphere</i> , 2021, 6, e0021921.	1.3	12
33	Identification of amino acids in the dengue virus type 2 envelope glycoprotein critical to virus infectivity. <i>Journal of General Virology</i> , 2009, 90, 2457-2461.	1.3	12
34	Nanopore Recappable sequencing maps SARS-CoV-2 5' capping sites and provides new insights into the structure of sgRNAs. <i>Nucleic Acids Research</i> , 2022, 50, 3475-3489.	6.5	12
35	Frontispiz: Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS-CoV-2 Spike Protein. <i>Angewandte Chemie</i> , 2021, 133, .	1.6	7
36	Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS-CoV-2 Spike Protein**. <i>Angewandte Chemie</i> , 2021, 133, 7174-7186.	1.6	6

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37	Proteomics technique opens new frontiers in mobilome research. <i>Mobile Genetic Elements</i> , 2017, 7, 1-9.	1.8	4
38	Assessment of the red blood cell proteome in a dog with unexplained hemolytic anemia. <i>Veterinary Clinical Pathology</i> , 2018, 47, 377-385.	0.3	3
39	Development and Application of Dengue Virus Reverse Genetic Systems. <i>Methods in Molecular Biology</i> , 2014, 1138, 113-130.	0.4	2
40	Frontispiece: Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS-CoV-2 Spike Protein. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	7.2	0