Andrew D Davidson

List of Publications by Year
in descending order

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	The fatty acid site is coupled to functional motifs in the SARS-CoV-2 spike protein and modulates spike allosteric behaviour. Computational and Structural Biotechnology Journal, 2022, 20, 139-147.	1.9	19
2	Structural insights in cell-type specific evolution of intra-host diversity by SARS-CoV-2. Nature Communications, 2022, 13, 222.	5.8	23
3	Nanopore ReCappable sequencing maps SARS-CoV-2 5â€² capping sites and provides new insights into the structure of sgRNAs. Nucleic Acids Research, 2022, 50, 3475-3489.	6.5	12
4	ESCPE-1 mediates retrograde endosomal sorting of the SARS-CoV-2 host factor Neuropilin-1. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	17
5	The dynamics of SARS-CoV-2 infectivity with changes in aerosol microenvironment. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	84
6	Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARSâ€CoVâ€2 Spike Protein**. Angewandte Chemie - International Edition, 2021, 60, 7098-7110.	7.2	77
7	Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARSâ€CoVâ€2 Spike Protein**. Angewandte Chemie, 2021, 133, 7174-7186.	1.6	6
8	Imd pathway-specific immune assays reveal NF-ÎºB stimulation by viral RNA PAMPs in Aedes aegypti Aag2 cells. PLoS Neglected Tropical Diseases, 2021, 15, e0008524.	1.3	28
9	Frontispiz: Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARSâ€CoVâ€2 Spike Protein. Angewandte Chemie, 2021, 133, .	1.6	7
10	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. Genome Medicine, 2021, 13, 43.	3.6	44
11	Frontispiece: Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARSâ€CoVâ€2 Spike Protein. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
12	The furin cleavage site in the SARS-CoV-2 spike protein is required for transmission in ferrets. Nature Microbiology, 2021, 6, 899-909.	5.9	556
13	Young infants exhibit robust functional antibody responses and restrained IFN-Î³ production to SARS-CoV-2. Cell Reports Medicine, 2021, 2, 100327.	3.3	29
14	Amplicon and Metagenomic Analysis of Middle East Respiratory Syndrome (MERS) Coronavirus and the Microbiome in Patients with Severe MERS. MSphere, 2021, 6, e0021921.	1.3	12
15	Measuring stability of virus in aerosols under varying environmental conditions. Aerosol Science and Technology, 2021, 55, 1315-1320.	1.5	15
16	TMPRSS2 promotes SARS-CoV-2 evasion from NCOA7-mediated restriction. PLoS Pathogens, 2021, 17, e1009820.	2.1	13
17	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. Clinical Science, 2021, 135, 2667-2689.	1.8	97
18	Neuropilin-1 is a host factor for SARS-CoV-2 infection. Science, 2020, 370, 861-865.	6.0	1,015

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19	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. Genome Medicine, 2020, 12, 68.	3.6	386
20	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. Viruses, 2020, 12, 1164.	1.5	51
21	Free fatty acid binding pocket in the locked structure of SARS-CoV-2 spike protein. Science, 2020, 370, 725-730.	6.0	348
22	Evaluation of the antiviral activity of orlistat (tetrahydrolipstatin) against dengue virus, Japanese encephalitis virus, Zika virus and chikungunya virus. Scientific Reports, 2020, 10, 1499.	1.6	38
23	Post-acute COVID-19 associated with evidence of bystander T-cell activation and a recurring antibiotic-resistant bacterial pneumonia. ELife, 2020, 9, .	2.8	26
24	Aedes aegypti (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. PLoS Neglected Tropical Diseases, 2019, 13, e0007346.	1.3	38
25	A Modular Vaccine Platform Combining Selfâ€Assembled Peptide Cages and Immunogenic Peptides. Advanced Functional Materials, 2019, 29, 1807357.	7.8	36
26	Development of a chimeric Zika vaccine using a licensed live-attenuated flavivirus vaccine as backbone. Nature Communications, 2018, 9, 673.	5.8	84
27	Assessment of the red blood cell proteome in a dog with unexplained hemolytic anemia. Veterinary Clinical Pathology, 2018, 47, 377-385.	0.3	3
28	BASP1 interacts with oestrogen receptor Î± and modifies the tamoxifen response. Cell Death and Disease, 2017, 8, e2771-e2771.	2.7	26
29	KIR2DS2 recognizes conserved peptides derived from viral helicases in the context of HLA-C. Science Immunology, 2017, 2, .	5.6	78
30	Proteomics technique opens new frontiers in mobilome research. Mobile Genetic Elements, 2017, 7, 1-9.	1.8	4
31	Proteomics informed by transcriptomics for characterising active transposable elements and genome annotation in Aedes aegypti. BMC Genomics, 2017, 18, 101.	1.2	49
32	Limitations of using feline coronavirus spike protein gene mutations to diagnose feline infectious peritonitis. Veterinary Research, 2017, 48, 60.	1.1	47
33	Sensing of Immature Particles Produced by Dengue Virus Infected Cells Induces an Antiviral Response by Plasmacytoid Dendritic Cells. PLoS Pathogens, 2014, 10, e1004434.	2.1	65
34	Development and Application of Dengue Virus Reverse Genetic Systems. Methods in Molecular Biology, 2014, 1138, 113-130.	0.4	2
35	High-Throughput Quantitative Proteomic Analysis of Dengue Virus Type 2 Infected A549 Cells. PLoS ONE, 2014, 9, e93305.	1.1	62
36	The ADP-ribose-1â€³-monophosphatase domains of severe acute respiratory syndrome coronavirus and human coronavirus 229E mediate resistance to antiviral interferon responses. Journal of General Virology, 2011, 92, 1899-1905.	1.3	88

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37	Chapter 2 New Insights into Flavivirus Nonstructural Protein 5. Advances in Virus Research, 2009, 74, 41-101.	0.9	76
38	Identification of amino acids in the dengue virus type 2 envelope glycoprotein critical to virus infectivity. Journal of General Virology, 2009, 90, 2457-2461.	1.3	12
39	Relationship between adenovirus DNA replication proteins and nucleolar proteins B23.1 and B23.2. Journal of General Virology, 2007, 88, 3244-3248.	1.3	26
40	Histidine 39 in the dengue virus type 2 M protein has an important role in virus assembly. Journal of General Virology, 2004, 85, 3627-3636.	1.3	37