David J Rowlands

List of Publications by Year
in descending order

59 papers	5,217 citations	249298 26 h-index	190340 53 g-index
63 all docs	63 docs citations	63 times ranked	4301 citing authors

#	Article	IF	Citations
1	Police Powers and Public Assemblies: Learning from the Clapham Common â€˜Vigilâ€™ during the Covid-19 Pandemic. Policing (Oxford), 2022, 16, 73-94.	0.9	6
2	Development of an ELISA to distinguish between foot-and-mouth disease virus infected and vaccinated animals utilising the viral non-structural protein 3ABC. Journal of Medical Microbiology, 2022, 71, .	0.7	0
3	Development of an Enzyme-Linked Immunosorbent Assay for Detection of the Native Conformation of Enterovirus A71. MSphere, 2022, 7, .	1.3	5
4	Structural insight into Pichia pastoris fatty acid synthase. Scientific Reports, 2021, 11, 9773.	1.6	10
5	An Engineered Maturation Cleavage Provides a Recombinant Mimic of Foot-and-Mouth Disease Virus Capsid Assembly-Disassembly. Life, 2021, 11, 500.	1.1	5
6	Functional advantages of triplication of the 3B coding region of the FMDV genome. FASEB Journal, 2021, 35, e21215.	0.2	8
7	Comparative Molecular Biology Approaches for the Production of Poliovirus Virus-Like Particles Using <i>Pichia pastoris</i>. MSphere, 2020, 5, .	1.3	22
8	Assembly of infectious enteroviruses depends on multiple, conserved genomic RNA-coat protein contacts. PLoS Pathogens, 2020, 16, e1009146.	2.1	31
9	Rationally derived inhibitors of hepatitis C virus (HCV) p7 channel activity reveal prospect for bimodal antiviral therapy. ELife, 2020, 9, .	2.8	4
10	Structural characterization of genomic RNA-coat protein contacts in single-stranded RNA viruses by high-resolution cryo-EM. Access Microbiology, 2020, 2, .	0.2	0
11	Unexpected mode of engagement between enterovirus 71 and its receptor SCARB2. Nature Microbiology, 2019, 4, 414-419.	5.9	73
12	Involvement of a Nonstructural Protein in Poliovirus Capsid Assembly. Journal of Virology, 2019, 93, .	1.5	10
13	Career thoughts and recollections: 50 years of publishing in the Journal of General Virology. Journal of General Virology, 2019, 100, 1390-1392.	1.3	0
14	Recombinant Expression of Tandem-HBc Virus-Like Particles (VLPs). Methods in Molecular Biology, 2018, 1776, 97-123.	0.4	15
15	High-speed fixed-target serial virus crystallography. Nature Methods, 2017, 14, 805-810.	9.0	106
16	Increasing Type 1 Poliovirus Capsid Stability by Thermal Selection. Journal of Virology, 2017, 91, .	1.5	49
17	Plant-made polio type 3 stabilized VLPsâ€"a candidate synthetic polio vaccine. Nature Communications, 2017, 8, 245.	5.8	91
18	Genetic economy in picornaviruses: Foot-and-mouth disease virus replication exploits alternative precursor cleavage pathways. PLoS Pathogens, 2017, 13, e1006666.	2.1	30

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19	Picornavirus RNA is protected from cleavage by ribonuclease during virion uncoating and transfer across cellular and model membranes. PLoS Pathogens, 2017, 13, e1006197.	2.1	25
20	Both <i>cis</i> and <i>trans</i> Activities of Foot-and-Mouth Disease Virus 3D Polymerase Are Essential for Viral RNA Replication. Journal of Virology, 2016, 90, 6864-6883.	1.5	17
21	Potent antiviral agents fail to elicit genetically-stable resistance mutations in either enterovirus 71 or Coxsackievirus A16. Antiviral Research, 2015, 124, 77-82.	1.9	22
22	Tandem Fusion of Hepatitis B Core Antigen Allows Assembly of Virus-Like Particles in Bacteria and Plants with Enhanced Capacity to Accommodate Foreign Proteins. PLoS ONE, 2015, 10, e0120751.	1.1	105
23	Revealing the density of encoded functions in a viral RNA. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2227-2232.	3.3	64
24	Assembly Pathway of Hepatitis B Core Virus-like Particles from Genetically Fused Dimers. Journal of Biological Chemistry, 2015, 290, 16238-16245.	1.6	24
25	Human hepatitis A virus is united with a host of relations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15010-15011.	3.3	4
26	Hepatitis A virus and the origins of picornaviruses. Nature, 2015, 517, 85-88.	13.7	158
27	Employing transposon mutagenesis to investigate foot-and-mouth disease virus replication. Journal of General Virology, 2015, 96, 3507-3518.	1.3	21
28	Capsid Protein VP4 of Human Rhinovirus Induces Membrane Permeability by the Formation of a Size-Selective Multimeric Pore. PLoS Pathogens, 2014, 10, e1004294.	2.1	88
29	FMDV replicons encoding green fluorescent protein are replication competent. Journal of Virological Methods, 2014, 209, 35-40.	1.0	31
30	Inhibition of the foot-and-mouth disease virus subgenomic replicon by RNA aptamers. Journal of General Virology, 2014, 95, 2649-2657.	1.3	16
31	More-powerful virus inhibitors from structure-based analysis of HEV71 capsid-binding molecules. Nature Structural and Molecular Biology, 2014, 21, 282-288.	3.6	88
32	NS2 is dispensable for efficient assembly of hepatitis C virus-like particles in a bipartite trans-encapsidation system. Journal of General Virology, 2014, 95, 2427-2441.	1.3	1
33	A sensor-adaptor mechanism for enterovirus uncoating from structures of EV71. Nature Structural and Molecular Biology, 2012, 19, 424-429.	3.6	347
34	Cell Entry of the Aphthovirus Equine Rhinitis A Virus Is Dependent on Endosome Acidification. Journal of Virology, 2010, 84, 6235-6240.	1.5	12
35	Crystal structure of equine rhinitis A virus in complex with its sialic acid receptor. Journal of General Virology, 2010, 91, 1971-1977.	1.3	13
36	Picornaviruses. Current Topics in Microbiology and Immunology, 2010, 343, 43-89.	0.7	172

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37	Expression of hepatitis C virus (HCV) structural proteins in trans facilitates encapsidation and transmission of HCV subgenomic RNA. Journal of General Virology, 2009, 90, 833-842.	1.3	23
38	Equine Rhinitis A Virus and Its Low pH Empty Particle: Clues Towards an Aphthovirus Entry Mechanism?. PLoS Pathogens, 2009, 5, e1000620.	2.1	64
39	Foot-and-Mouth Disease Virus Assembly: Processing of Recombinant Capsid Precursor by Exogenous Protease Induces Self-Assembly of Pentamers In Vitro in a Myristoylation-Dependent Manner. Journal of Virology, 2009, 83, 11275-11282.	1.5	46
40	Recombinant VP4 of Human Rhinovirus Induces Permeability in Model Membranes. Journal of Virology, 2008, 82, 4169-4174.	1.5	43
41	Fred Brown. 31 January 1925 â€" 20 February 2004. Biographical Memoirs of Fellows of the Royal Society, 2007, 53, 93-108.	0.1	0
42	Characterization of Early Steps in the Poliovirus Infection Process: Receptor-Decorated Liposomes Induce Conversion of the Virus to Membrane-Anchored Entry-Intermediate Particles. Journal of Virology, 2006, 80, 172-180.	1.5	94
43	A link between translation of the hepatitis C virus polyprotein and polymerase function; possible consequences for hyperphosphorylation of NS5A. Journal of General Virology, 2006, 87, 93-102.	1.3	18
44	Tagging of NS5A expressed from a functional hepatitis C virus replicon. Journal of General Virology, 2006, 87, 635-640.	1.3	21
45	A conserved basic loop in hepatitis C virus p7 protein is required for amantadine-sensitive ion channel activity in mammalian cells but is dispensable for localization to mitochondria. Journal of General Virology, 2004, 85, 451-461.	1.3	149
46	Introduction of replication-competent hepatitis C virus transcripts using a tetracycline-regulable baculovirus delivery system. Journal of General Virology, 2004, 85, 429-439.	1.3	46
47	Substrate Complexes of Hepatitis C Virus RNA Polymerase (HC-J4): Structural Evidence for Nucleotide Import and De-novo Initiation. Journal of Molecular Biology, 2003, 326, 1025-1035.	2.0	142
48	The p7 protein of hepatitis C virus forms an ion channel that is blocked by the antiviral drug, Amantadine. FEBS Letters, 2003, 535, 34-38.	1.3	403
49	Mouse respiratory epithelial cells support efficient replication of human rhinovirus. Journal of General Virology, 2003, 84, 2829-2836.	1.3	56
50	Efficient delivery and regulable expression of hepatitis C virus full-length and minigenome constructs in hepatocyte-derived cell lines using baculovirus vectors. Journal of General Virology, 2002, 83, 383-394.	1.3	34
51	The internal ribosome entry site (IRES) of hepatitis C virus visualized by electron microscopy. Rna, 2001, 7, 661-670.	1.6	29
52	The inhibition of cAMP-dependent protein kinase by full-length hepatitis C virus NS3/4A complex is due to ATP hydrolysis. Journal of General Virology, 2001, 82, 1637-1646.	1.3	22
53	Structure of a major immunogenic site on foot-and-mouth disease virus. Nature, 1993, 362, 566-568.	13.7	360
54	The three-dimensional structure of foot-and-mouth disease virus at 2.9 Ã… resolution. Nature, 1989, 337, 709-716.	13.7	887

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55	Non-responsiveness to a foot-and-mouth disease virus peptide overcome by addition of foreign helper T-cell determinants. Nature, 1987, 330, 168-170.	13.7	221
56	The sequence of foot-and-mouth disease virus RNA to the 5â€² side of the poly(C) tract. Gene, 1985, 40, 331-336.	1.0	42
57	Protection against foot-and-mouth disease by immunization with a chemically synthesized peptide predicted from the viral nucleotide sequence. Nature, 1982, 298, 30-33.	13.7	843
58	Antigenic Variation in Foot-and-Mouth Disease Virus. , 0, , 51-58.		1
59	Vaccine Strategies. , 0, , 429-447.		0