Rachel L Graham

List of Publications by Year
in descending order

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53 papers	14,782 citations	87843 38 h-index	161767 54 g-index
62 all docs	62 docs citations	62 times ranked	23108 citing authors

#	Article	IF	Citations
1	A Multitrait Locus Regulates Sarbecovirus Pathogenesis. MBio, 2022, 13, .	1.8	11
2	Novel modulators of p53-signaling encoded by unknown genes of emerging viruses. PLoS Pathogens, 2021, 17, e1009033.	2.1	12
3	Trypsin Treatment Unlocks Barrier for Zoonotic Bat Coronavirus Infection. Journal of Virology, 2020, 94, .	1.5	162
4	Bile Facilitates Human Norovirus Interactions with Diverse Histoblood Group Antigens, Compensating for Capsid Microvariation Observed in 2016â€"2017 GII.2 Strains. Viruses, 2020, 12, 989.	1.5	8
5	Swine acute diarrhea syndrome coronavirus replication in primary human cells reveals potential susceptibility to infection. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26915-26925.	3.3	104
6	SARS-CoV-2 D614G variant exhibits efficient replication ex vivo and transmission in vivo. Science, 2020, 370, 1464-1468.	6.0	808
7	SARS-CoV-2: Combating Coronavirus Emergence. Immunity, 2020, 52, 734-736.	6.6	27
8	The Current and Future State of Vaccines, Antivirals and Gene Therapies Against Emerging Coronaviruses. Frontiers in Microbiology, 2020, 11, 658.	1.5	86
9	Remdesivir Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. Cell Reports, 2020, 32, 107940.	2.9	412
10	Receptor Recognition by the Novel Coronavirus from Wuhan: an Analysis Based on Decade-Long Structural Studies of SARS Coronavirus. Journal of Virology, 2020, 94, .	1.5	3,520
11	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 in human airway epithelial cell cultures and multiple coronaviruses in mice. Science Translational Medicine, 2020, 12, .	5.8	886
12	Broad spectrum antiviral remdesivir inhibits human endemic and zoonotic deltacoronaviruses with a highly divergent RNA dependent RNA polymerase. Antiviral Research, 2019, 169, 104541.	1.9	398
13	GII.4 Human Norovirus: Surveying the Antigenic Landscape. Viruses, 2019, 11, 177.	1.5	43
14	Human Norovirus Epitope D Plasticity Allows Escape from Antibody Immunity without Loss of Capacity for Binding Cellular Ligands. Journal of Virology, 2019, 93, .	1.5	20
15	Coronavirus Susceptibility to the Antiviral Remdesivir (GS-5734) Is Mediated by the Viral Polymerase and the Proofreading Exoribonuclease. MBio, 2018, 9, .	1.8	1,142
16	Viral metagenomics, protein structure, and reverse genetics: Key strategies for investigating coronaviruses. Virology, 2018, 517, 30-37.	1.1	14
17	Evaluation of a recombination-resistant coronavirus as a broadly applicable, rapidly implementable vaccine platform. Communications Biology, 2018, 1, 179.	2.0	53
18	Genetic Variation between Dengue Virus Type 4 Strains Impacts Human Antibody Binding and Neutralization. Cell Reports, 2018, 25, 1214-1224.	2.9	50

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19	Bat Caliciviruses and Human Noroviruses Are Antigenically Similar and Have Overlapping Histo-Blood Group Antigen Binding Profiles. MBio, 2018, 9, .	1.8	18
20	A spike-modified Middle East respiratory syndrome coronavirus (MERS-CoV) infectious clone elicits mild respiratory disease in infected rhesus macaques. Scientific Reports, 2018, 8, 10727.	1.6	17
21	Combination Attenuation Offers Strategy for Live Attenuated Coronavirus Vaccines. Journal of Virology, 2018, 92, .	1.5	58
22	Conformational Occlusion of Blockade Antibody Epitopes, a Novel Mechanism of GII.4 Human Norovirus Immune Evasion. MSphere, 2018, 3, .	1.3	42
23	Jumping speciesâ€"a mechanism for coronavirus persistence and survival. Current Opinion in Virology, 2017, 23, 1-7.	2.6	110
24	Expanded subgenomic mRNA transcriptome and coding capacity of a nidovirus. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8895-E8904.	3.3	28
25	MERS-CoV Accessory ORFs Play Key Role for Infection and Pathogenesis. MBio, 2017, 8, .	1.8	126
26	Middle East Respiratory Syndrome Coronavirus Nonstructural Protein 16 Is Necessary for Interferon Resistance and Viral Pathogenesis. MSphere, 2017, 2, .	1.3	92
27	Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. Science Translational Medicine, 2017, 9, .	5.8	1,279
28	SARS-like WIV1-CoV poised for human emergence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3048-3053.	3.3	373
29	A SARS-like cluster of circulating bat coronaviruses shows potential for human emergence. Nature Medicine, 2015, 21, 1508-1513.	15.2	753
30	A Mouse Model for Betacoronavirus Subgroup 2c Using a Bat Coronavirus Strain HKU5 Variant. MBio, 2014, 5, e00047-14.	1.8	55
31	Coronavirus Replicase-Reporter Fusions Provide Quantitative Analysis of Replication and Replication Complex Formation. Journal of Virology, 2014, 88, 5319-5327.	1.5	22
32	Identification of human neutralizing antibodies against MERS-CoV and their role in virus adaptive evolution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2018-26.	3.3	216
33	Evaluation of Serologic and Antigenic Relationships Between Middle Eastern Respiratory Syndrome Coronavirus and Other Coronaviruses to Develop Vaccine Platforms for the Rapid Response to Emerging Coronaviruses. Journal of Infectious Diseases, 2014, 209, 995-1006.	1.9	100
34	A decade after SARS: strategies for controlling emerging coronaviruses. Nature Reviews Microbiology, 2013, 11, 836-848.	13.6	573
35	Cell Host Response to Infection with Novel Human Coronavirus EMC Predicts Potential Antivirals and Important Differences with SARS Coronavirus. MBio, 2013, 4, e00165-13.	1.8	250
36	Reverse genetics with a full-length infectious cDNA of the Middle East respiratory syndrome coronavirus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16157-16162.	3.3	257

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37	A live, impaired-fidelity coronavirus vaccine protects in an aged, immunocompromised mouse model of lethal disease. Nature Medicine, 2012, 18, 1820-1826.	15.2	218
38	Coronaviruses. RNA Biology, 2011, 8, 270-279.	1.5	441
39	Infidelity of SARS-CoV Nsp14-Exonuclease Mutant Virus Replication Is Revealed by Complete Genome Sequencing. PLoS Pathogens, 2010, 6, e1000896.	2.1	381
40	Recombination, Reservoirs, and the Modular Spike: Mechanisms of Coronavirus Cross-Species Transmission. Journal of Virology, 2010, 84, 3134-3146.	1.5	595
41	SARS coronavirus replicase proteins in pathogenesis. Virus Research, 2008, 133, 88-100.	1.1	124
42	Synthetic recombinant bat SARS-like coronavirus is infectious in cultured cells and in mice. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19944-19949.	3.3	232
43	Murine Coronaviruses Encoding nsp2 at Different Genomic Loci Have Altered Replication, Protein Expression, and Localization. Journal of Virology, 2008, 82, 11964-11969.	1.5	29
44	Analysis of Murine Hepatitis Virus Strain A59 Temperature-Sensitive Mutant TS-LA6 Suggests that nsp10 Plays a Critical Role in Polyprotein Processing. Journal of Virology, 2007, 81, 7086-7098.	1.5	44
45	Murine Hepatitis Virus Replicase Protein nsp10 Is a Critical Regulator of Viral RNA Synthesis. Journal of Virology, 2007, 81, 6356-6368.	1.5	44
46	Processing of Open Reading Frame 1a Replicase Proteins nsp7 to nsp10 in Murine Hepatitis Virus Strain A59 Replication. Journal of Virology, 2007, 81, 10280-10291.	1.5	78
47	Replication of Murine Hepatitis Virus Is Regulated by Papain-Like Proteinase 1 Processing of Nonstructural Proteins 1, 2, and 3. Journal of Virology, 2006, 80, 11610-11620.	1.5	31
48	The NSP2 Proteins of Mouse Hepatitis Virus and Sars Coronavirus are Dispensable for Viral Replication. Advances in Experimental Medicine and Biology, 2006, 581, 67-72.	0.8	25
49	MHV-A59 Orf1a Replicase Protein NSP7-NSP10 Processing in Replication. Advances in Experimental Medicine and Biology, 2006, 581, 101-104.	0.8	4
50	Single-Amino-Acid Substitutions in Open Reading Frame (ORF) 1b-nsp14 and ORF 2a Proteins of the Coronavirus Mouse Hepatitis Virus Are Attenuating in Mice. Journal of Virology, 2005, 79, 3391-3400.	1.5	93
51	The nsp2 Replicase Proteins of Murine Hepatitis Virus and Severe Acute Respiratory Syndrome Coronavirus Are Dispensable for Viral Replication. Journal of Virology, 2005, 79, 13399-13411.	1.5	160
52	Cleavage between Replicase Proteins p28 and p65 of Mouse Hepatitis Virus Is Not Required for Virus Replication. Journal of Virology, 2004, 78, 5957-5965.	1.5	43
53	Remdesivir Potently Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. SSRN Electronic Journal, 0, , .	0.4	15