

Rachel L Graham

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

10,939
citations

34
h-index

62
g-index

62
ext. papers

13,296
ext. citations

10.2
avg, IF

7.03
L-index

#	Paper	IF	Citations
57	Receptor Recognition by the Novel Coronavirus from Wuhan: an Analysis Based on Decade-Long Structural Studies of SARS Coronavirus. <i>Journal of Virology</i> , 2020 , 94,	6.6	2625
56	Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	983
55	Coronavirus Susceptibility to the Antiviral Remdesivir (GS-5734) Is Mediated by the Viral Polymerase and the Proofreading Exoribonuclease. <i>MBio</i> , 2018 , 9,	7.8	880
54	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 in human airway epithelial cell cultures and multiple coronaviruses in mice. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	534
53	A SARS-like cluster of circulating bat coronaviruses shows potential for human emergence. <i>Nature Medicine</i> , 2015 , 21, 1508-13	50.5	529
52	SARS-CoV-2 D614G variant exhibits efficient replication ex vivo and transmission in vivo. <i>Science</i> , 2020 , 370, 1464-1468	33.3	517
51	A decade after SARS: strategies for controlling emerging coronaviruses. <i>Nature Reviews Microbiology</i> , 2013 , 11, 836-48	22.2	448
50	Recombination, reservoirs, and the modular spike: mechanisms of coronavirus cross-species transmission. <i>Journal of Virology</i> , 2010 , 84, 3134-46	6.6	441
49	Coronaviruses: an RNA proofreading machine regulates replication fidelity and diversity. <i>RNA Biology</i> , 2011 , 8, 270-9	4.8	329
48	Infidelity of SARS-CoV Nsp14-exonuclease mutant virus replication is revealed by complete genome sequencing. <i>PLoS Pathogens</i> , 2010 , 6, e1000896	7.6	304
47	Broad spectrum antiviral remdesivir inhibits human endemic and zoonotic deltacoronaviruses with a highly divergent RNA dependent RNA polymerase. <i>Antiviral Research</i> , 2019 , 169, 104541	10.8	288
46	SARS-like WIV1-CoV poised for human emergence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3048-53	11.5	279
45	Remdesivir Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. <i>Cell Reports</i> , 2020 , 32, 107940	10.6	260
44	Reverse genetics with a full-length infectious cDNA of the Middle East respiratory syndrome coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16157-62	11.5	213
43	Cell host response to infection with novel human coronavirus EMC predicts potential antivirals and important differences with SARS coronavirus. <i>MBio</i> , 2013 , 4, e00165-13	7.8	211
42	Identification of human neutralizing antibodies against MERS-CoV and their role in virus adaptive evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2018-26	11.5	189
41	A live, impaired-fidelity coronavirus vaccine protects in an aged, immunocompromised mouse model of lethal disease. <i>Nature Medicine</i> , 2012 , 18, 1820-6	50.5	181

40	Synthetic recombinant bat SARS-like coronavirus is infectious in cultured cells and in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19944-9	11.5	178
39	The nsp2 replicase proteins of murine hepatitis virus and severe acute respiratory syndrome coronavirus are dispensable for viral replication. <i>Journal of Virology</i> , 2005 , 79, 13399-411	6.6	139
38	Trypsin Treatment Unlocks Barrier for Zoonotic Bat Coronavirus Infection. <i>Journal of Virology</i> , 2020 , 94,	6.6	116
37	MERS-CoV Accessory ORFs Play Key Role for Infection and Pathogenesis. <i>MBio</i> , 2017 , 8,	7.8	99
36	SARS coronavirus replicase proteins in pathogenesis. <i>Virus Research</i> , 2008 , 133, 88-100	6.4	94
35	Jumping species-a mechanism for coronavirus persistence and survival. <i>Current Opinion in Virology</i> , 2017 , 23, 1-7	7.5	87
34	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. <i>Journal of Infectious Diseases</i> , 2014 , 209, 995-1006	7	83
33	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. <i>Journal of Virology</i> , 2005 , 79, 3391-400	6.6	83
32	Middle East Respiratory Syndrome Coronavirus Nonstructural Protein 16 Is Necessary for Interferon Resistance and Viral Pathogenesis. <i>MSphere</i> , 2017 , 2,	5	71
31	The Current and Future State of Vaccines, Antivirals and Gene Therapies Against Emerging Coronaviruses. <i>Frontiers in Microbiology</i> , 2020 , 11, 658	5.7	61
30	Processing of open reading frame 1a replicase proteins nsp7 to nsp10 in murine hepatitis virus strain A59 replication. <i>Journal of Virology</i> , 2007 , 81, 10280-91	6.6	60
29	Swine acute diarrhea syndrome coronavirus replication in primary human cells reveals potential susceptibility to infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26915-26925	11.5	49
28	Combination Attenuation Offers Strategy for Live Attenuated Coronavirus Vaccines. <i>Journal of Virology</i> , 2018 , 92,	6.6	48
27	A mouse model for Betacoronavirus subgroup 2c using a bat coronavirus strain HKU5 variant. <i>MBio</i> , 2014 , 5, e00047-14	7.8	47
26	Murine hepatitis virus replicase protein nsp10 is a critical regulator of viral RNA synthesis. <i>Journal of Virology</i> , 2007 , 81, 6356-68	6.6	42
25	Cleavage between replicase proteins p28 and p65 of mouse hepatitis virus is not required for virus replication. <i>Journal of Virology</i> , 2004 , 78, 5957-65	6.6	42
24	Analysis of murine hepatitis virus strain A59 temperature-sensitive mutant TS-LA6 suggests that nsp10 plays a critical role in polyprotein processing. <i>Journal of Virology</i> , 2007 , 81, 7086-98	6.6	38
23	Conformational Occlusion of Blockade Antibody Epitopes, a Novel Mechanism of GII.4 Human Norovirus Immune Evasion. <i>MSphere</i> , 2018 , 3,	5	31

22	Replication of murine hepatitis virus is regulated by papain-like proteinase 1 processing of nonstructural proteins 1, 2, and 3. <i>Journal of Virology</i> , 2006 , 80, 11610-20	6.6	31
21	Evaluation of a recombination-resistant coronavirus as a broadly applicable, rapidly implementable vaccine platform. <i>Communications Biology</i> , 2018 , 1, 179	6.7	31
20	Genetic Variation between Dengue Virus Type 4 Strains Impacts Human Antibody Binding and Neutralization. <i>Cell Reports</i> , 2018 , 25, 1214-1224	10.6	27
19	Murine coronaviruses encoding nsp2 at different genomic loci have altered replication, protein expression, and localization. <i>Journal of Virology</i> , 2008 , 82, 11964-9	6.6	25
18	GII.4 Human Norovirus: Surveying the Antigenic Landscape. <i>Viruses</i> , 2019 , 11,	6.2	22
17	Comparative analysis of coronavirus genomic RNA structure reveals conservation in SARS-like coronaviruses 2020 ,		21
16	Expanded subgenomic mRNA transcriptome and coding capacity of a nidovirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8895-E8904	11.5	20
15	The nsp2 proteins of mouse hepatitis virus and SARS coronavirus are dispensable for viral replication. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 67-72	3.6	20
14	Coronavirus replicase-reporter fusions provide quantitative analysis of replication and replication complex formation. <i>Journal of Virology</i> , 2014 , 88, 5319-27	6.6	18
13	SARS-CoV-2: Combating Coronavirus Emergence. <i>Immunity</i> , 2020 , 52, 734-736	32.3	17
12	Human Norovirus Epitope D Plasticity Allows Escape from Antibody Immunity without Loss of Capacity for Binding Cellular Ligands. <i>Journal of Virology</i> , 2019 , 93,	6.6	16
11	Bat Caliciviruses and Human Noroviruses Are Antigenically Similar and Have Overlapping Histo-Blood Group Antigen Binding Profiles. <i>MBio</i> , 2018 , 9,	7.8	16
10	Remdesivir potently inhibits SARS-CoV-2 in human lung cells and chimeric SARS-CoV expressing the SARS-CoV-2 RNA polymerase in mice 2020 ,		15
9	A spike-modified Middle East respiratory syndrome coronavirus (MERS-CoV) infectious clone elicits mild respiratory disease in infected rhesus macaques. <i>Scientific Reports</i> , 2018 , 8, 10727	4.9	14
8	Viral metagenomics, protein structure, and reverse genetics: Key strategies for investigating coronaviruses. <i>Virology</i> , 2018 , 517, 30-37	3.6	12
7	Remdesivir Potently Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. <i>SSRN Electronic Journal</i> ,	1	11
6	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 and multiple endemic, epidemic and bat coronavirus		11
5	Novel modulators of p53-signaling encoded by unknown genes of emerging viruses. <i>PLoS Pathogens</i> , 2021 , 17, e1009033	7.6	7

4	Bile Facilitates Human Norovirus Interactions with Diverse Histoblood Group Antigens, Compensating for Capsid Microvariation Observed in 2016-2017 GII.2 Strains. <i>Viruses</i> , 2020 , 12,	6.2	5
3	Combination attenuation offers strategy for live-attenuated coronavirus vaccines		3
2	Trypsin treatment unlocks barrier for zoonotic coronaviruses infection		3
1	MHV-A59 ORF1a replicase protein nsp7-nsp10 processing in replication. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 101-4	3.6	3