

Colin A Russell

List of Publications by Year in Descending Order

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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.

63
papers

6,459
citations

34
h-index

72
g-index

72
ext. papers

7,738
ext. citations

12.4
avg, IF

5.38
L-index

#	Paper	IF	Citations
63	A single mRNA vaccine dose in COVID-19 patients boosts neutralizing antibodies against SARS-CoV-2 and variants of concern.. <i>Cell Reports Medicine</i> , 2022 , 3, 100486	18	0
62	The glycan hole area of HIV-1 envelope trimers contributes prominently to the induction of autologous neutralization. <i>Journal of Virology</i> , 2021 , JVI0155221	6.6	2
61	Hepatitis C Virus Transmission Among Men Who Have Sex With Men in Amsterdam: External Introductions May Complicate Microelimination Efforts. <i>Clinical Infectious Diseases</i> , 2021 , 72, e1056-e1063	11.6	2
60	Partial immunity and SARS-CoV-2 mutations. <i>Science</i> , 2021 , 372, 354	33.3	5
59	Serologic Surveillance and Phylogenetic Analysis of SARS-CoV-2 Infection Among Hospital Health Care Workers. <i>JAMA Network Open</i> , 2021 , 4, e2118554	10.4	13
58	Quantifying mechanistic traits of influenza viral dynamics using in vitro data. <i>Epidemics</i> , 2020 , 33, 100406	6.1	1
57	Phenotypic Effects of Substitutions within the Receptor Binding Site of Highly Pathogenic Avian Influenza H5N1 Virus Observed during Human Infection. <i>Journal of Virology</i> , 2020 , 94,	6.6	3
56	The impact of climate and antigenic evolution on seasonal influenza virus epidemics in Australia. <i>Nature Communications</i> , 2020 , 11, 2741	17.4	4
55	Asynchrony between virus diversity and antibody selection limits influenza virus evolution. <i>ELife</i> , 2020 , 9,	8.9	12
54	Yield of Screening for COVID-19 in Asymptomatic Patients Before Elective or Emergency Surgery Using Chest CT and RT-PCR (SCOUT): Multicenter Study. <i>Annals of Surgery</i> , 2020 , 272, 919-924	7.8	30
53	Influenza A Hemagglutinin Passage Bias Sites and Host Specificity Mutations. <i>Cells</i> , 2019 , 8,	7.9	2
52	Genetic diversity and host adaptation of avian H5N1 influenza viruses during human infection. <i>Emerging Microbes and Infections</i> , 2019 , 8, 262-271	18.9	21
51	Phylogenetic Clustering by Linear Integer Programming (PhyCLIP). <i>Molecular Biology and Evolution</i> , 2019 , 36, 1580-1595	8.3	21
50	Inferring putative transmission clusters with Phydely. <i>Virus Evolution</i> , 2019 , 5, vez039	3.7	6
49	Incomplete genetic reconstitution of B cell pools contributes to prolonged immunosuppression after measles. <i>Science Immunology</i> , 2019 , 4,	28	54
48	Individual immune selection pressure has limited impact on seasonal influenza virus evolution. <i>Nature Ecology and Evolution</i> , 2019 , 3, 302-311	12.3	15
47	The evolution of seasonal influenza viruses. <i>Nature Reviews Microbiology</i> , 2018 , 16, 47-60	22.2	234

46	The Geographic Variation of Surveillance and Zoonotic Spillover Potential of Influenza Viruses in Domestic Poultry and Swine. <i>Open Forum Infectious Diseases</i> , 2018 , 5, ofy318	1	2
45	Combined Influence of B-Cell Receptor Rearrangement and Somatic Hypermutation on B-Cell Class-Switch Fate in Health and in Chronic Lymphocytic Leukemia. <i>Frontiers in Immunology</i> , 2018 , 9, 1784	8.4	14
44	Genome-wide evolutionary dynamics of influenza B viruses on a global scale. <i>PLoS Pathogens</i> , 2017 , 13, e1006749	7.6	55
43	Infectious disease management must be evolutionary. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1053-1055	12.3	3
42	Sick birds don't fly or do they?. <i>Science</i> , 2016 , 354, 174-175	33.3	5
41	Selection of antigenically advanced variants of seasonal influenza viruses. <i>Nature Microbiology</i> , 2016 , 1, 16058	26.6	46
40	Prediction, dynamics, and visualization of antigenic phenotypes of seasonal influenza viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1701-9	11.5	116
39	The global antigenic diversity of swine influenza A viruses. <i>ELife</i> , 2016 , 5, e12217	8.9	106
38	Viral factors in influenza pandemic risk assessment. <i>ELife</i> , 2016 , 5,	8.9	61
37	Influenza B vaccine lineage selection--an optimized trivalent vaccine. <i>Vaccine</i> , 2016 , 34, 1617-1622	4.1	13
36	Influenza A virus evolution and spatio-temporal dynamics in Eurasian wild birds: a phylogenetic and phylogeographical study of whole-genome sequence data. <i>Journal of General Virology</i> , 2015 , 96, 2050-2060	4.9	22
35	Dengue viruses cluster antigenically but not as discrete serotypes. <i>Science</i> , 2015 , 349, 1338-43	33.3	139
34	Global circulation patterns of seasonal influenza viruses vary with antigenic drift. <i>Nature</i> , 2015 , 523, 217-204	5.0	302
33	Genomewide analysis of reassortment and evolution of human influenza A(H3N2) viruses circulating between 1968 and 2011. <i>Journal of Virology</i> , 2014 , 88, 2844-57	6.6	100
32	WHO recommendations for the viruses used in the 2013-2014 Northern Hemisphere influenza vaccine: Epidemiology, antigenic and genetic characteristics of influenza A(H1N1)pdm09, A(H3N2) and B influenza viruses collected from October 2012 to January 2013. <i>Vaccine</i> , 2014 , 32, 4713-25	4.1	74
31	Circulating avian influenza viruses closely related to the 1918 virus have pandemic potential. <i>Cell Host and Microbe</i> , 2014 , 15, 692-705	23.4	56
30	Integrating influenza antigenic dynamics with molecular evolution. <i>ELife</i> , 2014 , 3, e01914	8.9	213
29	Improving pandemic influenza risk assessment. <i>ELife</i> , 2014 , 3, e03883	8.9	45

28	Predicting evolution from the shape of genealogical trees. <i>ELife</i> , 2014 , 3,	8.9	108
27	Unifying viral genetics and human transportation data to predict the global transmission dynamics of human influenza H3N2. <i>PLoS Pathogens</i> , 2014 , 10, e1003932	7.6	230
26	The evolution and genetics of virus host shifts. <i>PLoS Pathogens</i> , 2014 , 10, e1004395	7.6	177
25	Antigenic variation of clade 2.1 H5N1 virus is determined by a few amino acid substitutions immediately adjacent to the receptor binding site. <i>MBio</i> , 2014 , 5, e01070-14	7.8	38
24	Author response: Improving pandemic influenza risk assessment 2014 ,		2
23	Substitutions near the receptor binding site determine major antigenic change during influenza virus evolution. <i>Science</i> , 2013 , 342, 976-9	33.3	379
22	Quantifying the fitness advantage of polymerase substitutions in Influenza A/H7N9 viruses during adaptation to humans. <i>PLoS ONE</i> , 2013 , 8, e76047	3.7	9
21	Avian influenza virus surveillance in wild birds in Georgia: 2009-2011. <i>PLoS ONE</i> , 2013 , 8, e58534	3.7	37
20	WHO recommendations for the viruses to be used in the 2012 Southern Hemisphere Influenza Vaccine: epidemiology, antigenic and genetic characteristics of influenza A(H1N1)pdm09, A(H3N2) and B influenza viruses collected from February to September 2011. <i>Vaccine</i> , 2012 , 30, 6461-71	4.1	50
19	Genetic evolution of the neuraminidase of influenza A (H3N2) viruses from 1968 to 2009 and its correspondence to haemagglutinin evolution. <i>Journal of General Virology</i> , 2012 , 93, 1996-2007	4.9	44
18	The potential for respiratory droplet-transmissible A/H5N1 influenza virus to evolve in a mammalian host. <i>Science</i> , 2012 , 336, 1541-7	33.3	231
17	Discordant antigenic drift of neuraminidase and hemagglutinin in H1N1 and H3N2 influenza viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20748-53	11.5	140
16	Genetic and antigenic characterization of H1 influenza viruses from United States swine from 2008. <i>Journal of General Virology</i> , 2011 , 92, 919-30	4.9	99
15	Virulence-associated substitution D222G in the hemagglutinin of 2009 pandemic influenza A(H1N1) virus affects receptor binding. <i>Journal of Virology</i> , 2010 , 84, 11802-13	6.6	171
14	Epidemiological, antigenic and genetic characteristics of seasonal influenza A(H1N1), A(H3N2) and B influenza viruses: basis for the WHO recommendation on the composition of influenza vaccines for use in the 2009-2010 northern hemisphere season. <i>Vaccine</i> , 2010 , 28, 1156-67	4.1	130
13	Antigenic and genetic variations in European and North American equine influenza virus strains (H3N8) isolated from 2006 to 2007. <i>Veterinary Microbiology</i> , 2009 , 138, 41-52	3.3	114
12	Antigenic and genetic characteristics of swine-origin 2009 A(H1N1) influenza viruses circulating in humans. <i>Science</i> , 2009 , 325, 197-201	33.3	1844
11	Influenza vaccine strain selection and recent studies on the global migration of seasonal influenza viruses. <i>Vaccine</i> , 2008 , 26 Suppl 4, D31-4	4.1	163

10	The global circulation of seasonal influenza A (H3N2) viruses. <i>Science</i> , 2008 , 320, 340-6	33.3	515
9	Spatial control of rabies on heterogeneous landscapes. <i>PLoS ONE</i> , 2006 , 1, e27	3.7	50
8	Predictive spatial dynamics and strategic planning for raccoon rabies emergence in Ohio. <i>PLoS Biology</i> , 2005 , 3, e88	9.7	68
7	A priori prediction of disease invasion dynamics in a novel environment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271, 21-5	4.4	50
6	Inferring putative transmission clusters with Phydelity		2
5	Disparate evolution of virus populations in upper and lower airways of mechanically ventilated patients		3
4	Asynchrony between virus diversity and antibody selection limits influenza virus evolution		1
3	N-glycolylneuraminic acid binding of avian H7 influenza A viruses		1
2	Phylogenetic Clustering by Linear Integer Programming (PhyCLIP)		1
1	Antigenic Cartography of Human and Swine Influenza A (H3N2) Viruses. <i>Novartis Foundation Symposium</i> , 32-44		1