Colin A Russell

List of Publications by Year
in descending order

58 papers	8,587 citations	109321 35 h-index	144013 57 g-index
72 all docs	72 docs citations	72 times ranked	9080 citing authors

#	Article	IF	Citations
1	A single mRNA vaccine dose in COVID-19 patients boosts neutralizing antibodies against SARS-CoV-2 and variants of concern. Cell Reports Medicine, 2022, 3, 100486.	6.5	16
2	The Glycan Hole Area of HIV-1 Envelope Trimers Contributes Prominently to the Induction of Autologous Neutralization. Journal of Virology, 2022, 96, JVI0155221.	3.4	13
3	Partial immunity and SARS-CoV-2 mutations. Science, 2021, 372, 354-354.	12.6	9
4	Serologic Surveillance and Phylogenetic Analysis of SARS-CoV-2 Infection Among Hospital Health Care Workers. JAMA Network Open, 2021, 4, e2118554.	5.9	36
5	Within-host evolutionary dynamics of seasonal and pandemic human influenza A viruses in young children. ELife, 2021, 10, .	6.0	8
6	Hepatitis C Virus Transmission Among Men Who Have Sex With Men in Amsterdam: External Introductions May Complicate Microelimination Efforts. Clinical Infectious Diseases, 2021, 72, e1056-e1063.	5.8	11
7	Quantifying mechanistic traits of influenza viral dynamics using in vitro data. Epidemics, 2020, 33, 100406.	3.0	10
8	Phenotypic Effects of Substitutions within the Receptor Binding Site of Highly Pathogenic Avian Influenza H5N1 Virus Observed during Human Infection. Journal of Virology, 2020, 94, .	3.4	8
9	The impact of climate and antigenic evolution on seasonal influenza virus epidemics in Australia. Nature Communications, 2020, 11, 2741.	12.8	17
10	Yield of Screening for COVID-19 in Asymptomatic Patients Before Elective or Emergency Surgery Using Chest CT and RT-PCR (SCOUT). Annals of Surgery, 2020, 272, 919-924.	4.2	45
11	Asynchrony between virus diversity and antibody selection limits influenza virus evolution. ELife, 2020, 9, .	6.0	25
12	Inferring putative transmission clusters with Phydelity. Virus Evolution, 2019, 5, vez039.	4.9	18
13	Incomplete genetic reconstitution of B cell pools contributes to prolonged immunosuppression after measles. Science Immunology, 2019, 4, .	11.9	98
14	Influenza A Hemagglutinin Passage Bias Sites and Host Specificity Mutations. Cells, 2019, 8, 958.	4.1	6
15	Genetic diversity and host adaptation of avian H5N1 influenza viruses during human infection. Emerging Microbes and Infections, 2019, 8, 262-271.	6.5	27
16	Phylogenetic Clustering by Linear Integer Programming (PhyCLIP). Molecular Biology and Evolution, 2019, 36, 1580-1595.	8.9	54
17	Individual immune selection pressure has limited impact on seasonal influenza virus evolution. Nature Ecology and Evolution, 2019, 3, 302-311.	7.8	25
18	The evolution of seasonal influenza viruses. Nature Reviews Microbiology, 2018, 16, 47-60.	28.6	483

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19	The Geographic Variation of Surveillance and Zoonotic Spillover Potential of Influenza Viruses in Domestic Poultry and Swine. Open Forum Infectious Diseases, 2018, 5, ofy318.	0.9	5
20	Combined Influence of B-Cell Receptor Rearrangement and Somatic Hypermutation on B-Cell Class-Switch Fate in Health and in Chronic Lymphocytic Leukemia. Frontiers in Immunology, 2018, 9, 1784.	4.8	22
21	Infectious disease management must be evolutionary. Nature Ecology and Evolution, 2017, 1, 1053-1055.	7.8	4
22	Genome-wide evolutionary dynamics of influenza B viruses on a global scale. PLoS Pathogens, 2017, 13, e1006749.	4.7	78
23	Influenza B vaccine lineage selectionâ€"An optimized trivalent vaccine. Vaccine, 2016, 34, 1617-1622.	3.8	14
24	Sick birds don't flyâ€¦or do they?. Science, 2016, 354, 174-175.	12.6	8
25	Selection of antigenically advanced variants of seasonal influenza viruses. Nature Microbiology, 2016, 1, 16058.	13.3	61
26	Prediction, dynamics, and visualization of antigenic phenotypes of seasonal influenza viruses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1701-9.	7.1	165
27	The global antigenic diversity of swine influenza A viruses. ELife, 2016, 5, e12217.	6.0	146
28	Viral factors in influenza pandemic risk assessment. ELife, 2016, 5, .	6.0	82
29	Global circulation patterns of seasonal influenza viruses vary with antigenic drift. Nature, 2015, 523, 217-220.	27.8	445
30	Influenza A virus evolution and spatio-temporal dynamics in Eurasian wild birds: a phylogenetic and phylogeographical study of whole-genome sequence data. Journal of General Virology, 2015, 96, 2050-2060.	2.9	23
31	Dengue viruses cluster antigenically but not as discrete serotypes. Science, 2015, 349, 1338-1343.	12.6	195
32	Integrating influenza antigenic dynamics with molecular evolution. ELife, 2014, 3, e01914.	6.0	299
33	Improving pandemic influenza risk assessment. ELife, 2014, 3, e03883.	6.0	53
34	Predicting evolution from the shape of genealogical trees. ELife, 2014, 3, .	6.0	159
35	Unifying Viral Genetics and Human Transportation Data to Predict the Global Transmission Dynamics of Human Influenza H3N2. PLoS Pathogens, 2014, 10, e1003932.	4.7	330
36	The Evolution and Genetics of Virus Host Shifts. PLoS Pathogens, 2014, 10, e1004395.	4.7	291

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37	Antigenic Variation of Clade 2.1 H5N1 Virus Is Determined by a Few Amino Acid Substitutions Immediately Adjacent to the Receptor Binding Site. MBio, 2014, 5, e01070-14.	4.1	57
38	Genomewide Analysis of Reassortment and Evolution of Human Influenza A(H3N2) Viruses Circulating between 1968 and 2011. Journal of Virology, 2014, 88, 2844-2857.	3.4	137
39	WHO recommendations for the viruses used in the 2013â€“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. Vaccine, 2014, 32, 4713-4725.	3.8	102
40	Circulating Avian Influenza Viruses Closely Related to the 1918 Virus Have Pandemic Potential. Cell Host and Microbe, 2014, 15, 692-705.	11.0	71
41	Substitutions Near the Receptor Binding Site Determine Major Antigenic Change During Influenza Virus Evolution. Science, 2013, 342, 976-979.	12.6	500
42	Quantifying the Fitness Advantage of Polymerase Substitutions in Influenza A/H7N9 Viruses during Adaptation to Humans. PLoS ONE, 2013, 8, e76047.	2.5	9
43	Avian Influenza Virus Surveillance in Wild Birds in Georgia: 2009â€“2011. PLoS ONE, 2013, 8, e58534.	2.5	42
44	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. Vaccine, 2012, 30, 6461-6471.	3.8	60
45	Genetic evolution of the neuraminidase of influenza A (H3N2) viruses from 1968 to 2009 and its correspondence to haemagglutinin evolution. Journal of General Virology, 2012, 93, 1996-2007.	2.9	57
46	The Potential for Respiratory Dropletâ€“Transmissible A/H5N1 Influenza Virus to Evolve in a Mammalian Host. Science, 2012, 336, 1541-1547.	12.6	286
47	Discordant antigenic drift of neuraminidase and hemagglutinin in H1N1 and H3N2 influenza viruses. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20748-20753.	7.1	188
48	Genetic and antigenic characterization of H1 influenza viruses from United States swine from 2008. Journal of General Virology, 2011, 92, 919-930.	2.9	123
49	Virulence-Associated Substitution D222G in the Hemagglutinin of 2009 Pandemic Influenza A(H1N1) Virus Affects Receptor Binding. Journal of Virology, 2010, 84, 11802-11813.	3.4	197
50	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 2009â€“2010 Northern Hemisphere season. Vaccine, 2010, 28, 1156-1167.	3.8	145
51	Antigenic and genetic variations in European and North American equine influenza virus strains (H3N8) isolated from 2006 to 2007. Veterinary Microbiology, 2009, 138, 41-52.	1.9	132
52	Antigenic and Genetic Characteristics of Swine-Origin 2009 A(H1N1) Influenza Viruses Circulating in Humans. Science, 2009, 325, 197-201.	12.6	2,127
53	Influenza vaccine strain selection and recent studies on the global migration of seasonal influenza viruses. Vaccine, 2008, 26, D31-D34.	3.8	208
54	The Global Circulation of Seasonal Influenza A (H3N2) Viruses. Science, 2008, 320, 340-346.	12.6	628

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55	Spatial Control of Rabies on Heterogeneous Landscapes. PLoS ONE, 2006, 1, e27.	2.5	53
56	Predictive Spatial Dynamics and Strategic Planning for Raccoon Rabies Emergence in Ohio. PLoS Biology, 2005, 3, e88.	5.6	81
57	A priori prediction of disease invasion dynamics in a novel environment. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 21-25.	2.6	65
58	Antigenic Cartography of Human and Swine Influenza A (H3N2) Viruses. Novartis Foundation Symposium, 0, , 32-44.	1.1	1