

Colin A Russell

List of Publications by Year in descending order

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Version: 2024-02-01

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	Antigenic and Genetic Characteristics of Swine-Origin 2009 A(H1N1) Influenza Viruses Circulating in Humans. <i>Science</i> , 2009, 325, 197-201.	12.6	2,127
2	The Global Circulation of Seasonal Influenza A (H3N2) Viruses. <i>Science</i> , 2008, 320, 340-346.	12.6	628
3	Substitutions Near the Receptor Binding Site Determine Major Antigenic Change During Influenza Virus Evolution. <i>Science</i> , 2013, 342, 976-979.	12.6	500
4	The evolution of seasonal influenza viruses. <i>Nature Reviews Microbiology</i> , 2018, 16, 47-60.	28.6	483
5	Global circulation patterns of seasonal influenza viruses vary with antigenic drift. <i>Nature</i> , 2015, 523, 217-220.	27.8	445
6	Unifying Viral Genetics and Human Transportation Data to Predict the Global Transmission Dynamics of Human Influenza H3N2. <i>PLoS Pathogens</i> , 2014, 10, e1003932.	4.7	330
7	Integrating influenza antigenic dynamics with molecular evolution. <i>ELife</i> , 2014, 3, e01914.	6.0	299
8	The Evolution and Genetics of Virus Host Shifts. <i>PLoS Pathogens</i> , 2014, 10, e1004395.	4.7	291
9	The Potential for Respiratory Droplet-Transmissible A/H5N1 Influenza Virus to Evolve in a Mammalian Host. <i>Science</i> , 2012, 336, 1541-1547.	12.6	286
10	Influenza vaccine strain selection and recent studies on the global migration of seasonal influenza viruses. <i>Vaccine</i> , 2008, 26, D31-D34.	3.8	208
11	Virulence-Associated Substitution D222G in the Hemagglutinin of 2009 Pandemic Influenza A(H1N1) Virus Affects Receptor Binding. <i>Journal of Virology</i> , 2010, 84, 11802-11813.	3.4	197
12	Dengue viruses cluster antigenically but not as discrete serotypes. <i>Science</i> , 2015, 349, 1338-1343.	12.6	195
13	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, 20748-20753.	7.1	188
14	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.	7.1	165
15	Predicting evolution from the shape of genealogical trees. <i>ELife</i> , 2014, 3, .	6.0	159
16	The global antigenic diversity of swine influenza A viruses. <i>ELife</i> , 2016, 5, e12217.	6.0	146
17	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, 1156-1167.	3.8	145
18	Genomewide Analysis of Reassortment and Evolution of Human Influenza A(H3N2) Viruses Circulating between 1968 and 2011. <i>Journal of Virology</i> , 2014, 88, 2844-2857.	3.4	137

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19	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.	1.9	132
20	Genetic and antigenic characterization of H1 influenza viruses from United States swine from 2008. <i>Journal of General Virology</i> , 2011, 92, 919-930.	2.9	123
21	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, 4713-4725.	3.8	102
22	Incomplete genetic reconstitution of B cell pools contributes to prolonged immunosuppression after measles. <i>Science Immunology</i> , 2019, 4, .	11.9	98
23	Viral factors in influenza pandemic risk assessment. <i>ELife</i> , 2016, 5, .	6.0	82
24	Predictive Spatial Dynamics and Strategic Planning for Raccoon Rabies Emergence in Ohio. <i>PLoS Biology</i> , 2005, 3, e88.	5.6	81
25	Genome-wide evolutionary dynamics of influenza B viruses on a global scale. <i>PLoS Pathogens</i> , 2017, 13, e1006749.	4.7	78
26	Circulating Avian Influenza Viruses Closely Related to the 1918 Virus Have Pandemic Potential. <i>Cell Host and Microbe</i> , 2014, 15, 692-705.	11.0	71
27	A priori prediction of disease invasion dynamics in a novel environment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 21-25.	2.6	65
28	Selection of antigenically advanced variants of seasonal influenza viruses. <i>Nature Microbiology</i> , 2016, 1, 16058.	13.3	61
29	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, 6461-6471.	3.8	60
30	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.	2.9	57
31	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.	4.1	57
32	Phylogenetic Clustering by Linear Integer Programming (PhyCLIP). <i>Molecular Biology and Evolution</i> , 2019, 36, 1580-1595.	8.9	54
33	Spatial Control of Rabies on Heterogeneous Landscapes. <i>PLoS ONE</i> , 2006, 1, e27.	2.5	53
34	Improving pandemic influenza risk assessment. <i>ELife</i> , 2014, 3, e03883.	6.0	53
35	Yield of Screening for COVID-19 in Asymptomatic Patients Before Elective or Emergency Surgery Using Chest CT and RT-PCR (SCOUT). <i>Annals of Surgery</i> , 2020, 272, 919-924.	4.2	45
36	Avian Influenza Virus Surveillance in Wild Birds in Georgia: 2009–2011. <i>PLoS ONE</i> , 2013, 8, e58534.	2.5	42

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37	Serologic Surveillance and Phylogenetic Analysis of SARS-CoV-2 Infection Among Hospital Health Care Workers. <i>JAMA Network Open</i> , 2021, 4, e2118554.	5.9	36
38	Genetic diversity and host adaptation of avian H5N1 influenza viruses during human infection. <i>Emerging Microbes and Infections</i> , 2019, 8, 262-271.	6.5	27
39	Individual immune selection pressure has limited impact on seasonal influenza virus evolution. <i>Nature Ecology and Evolution</i> , 2019, 3, 302-311.	7.8	25
40	Asynchrony between virus diversity and antibody selection limits influenza virus evolution. <i>ELife</i> , 2020, 9, .	6.0	25
41	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.	2.9	23
42	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.	4.8	22
43	Inferring putative transmission clusters with Phydely. <i>Virus Evolution</i> , 2019, 5, vez039.	4.9	18
44	The impact of climate and antigenic evolution on seasonal influenza virus epidemics in Australia. <i>Nature Communications</i> , 2020, 11, 2741.	12.8	17
45	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.	6.5	16
46	Influenza B vaccine lineage selection—An optimized trivalent vaccine. <i>Vaccine</i> , 2016, 34, 1617-1622.	3.8	14
47	The Glycan Hole Area of HIV-1 Envelope Trimers Contributes Prominently to the Induction of Autologous Neutralization. <i>Journal of Virology</i> , 2022, 96, JVI0155221.	3.4	13
48	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.	5.8	11
49	Quantifying mechanistic traits of influenza viral dynamics using in vitro data. <i>Epidemics</i> , 2020, 33, 100406.	3.0	10
50	Quantifying the Fitness Advantage of Polymerase Substitutions in Influenza A/H7N9 Viruses during Adaptation to Humans. <i>PLoS ONE</i> , 2013, 8, e76047.	2.5	9
51	Partial immunity and SARS-CoV-2 mutations. <i>Science</i> , 2021, 372, 354-354.	12.6	9
52	Sick birds don't fly—or do they?. <i>Science</i> , 2016, 354, 174-175.	12.6	8
53	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, .	3.4	8
54	Within-host evolutionary dynamics of seasonal and pandemic human influenza A viruses in young children. <i>ELife</i> , 2021, 10, .	6.0	8

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55	Influenza A Hemagglutinin Passage Bias Sites and Host Specificity Mutations. <i>Cells</i> , 2019, 8, 958.	4.1	6
56	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.	0.9	5
57	Infectious disease management must be evolutionary. <i>Nature Ecology and Evolution</i> , 2017, 1, 1053-1055.	7.8	4
58	Antigenic Cartography of Human and Swine Influenza A (H3N2) Viruses. <i>Novartis Foundation Symposium</i> , 0, , 32-44.	1.1	1