

Sander Herfst

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.

70
papers

5,877
citations

32
h-index

76
g-index

81
ext. papers

7,041
ext. citations

11.1
avg, IF

5.62
L-index

#	Paper	IF	Citations
70	Airborne transmission of influenza A/H5N1 virus between ferrets. <i>Science</i> , 2012 , 336, 1534-41	33.3	1162
69	Comparative pathogenesis of COVID-19, MERS, and SARS in a nonhuman primate model. <i>Science</i> , 2020 , 368, 1012-1015	33.3	596
68	Pathogenesis and transmission of swine-origin 2009 A(H1N1) influenza virus in ferrets. <i>Science</i> , 2009 , 325, 481-3	33.3	505
67	Animal models for COVID-19. <i>Nature</i> , 2020 , 586, 509-515	50.4	377
66	Detection of influenza A viruses from different species by PCR amplification of conserved sequences in the matrix gene. <i>Journal of Clinical Microbiology</i> , 2000 , 38, 4096-101	9.7	314
65	Transmission routes of respiratory viruses among humans. <i>Current Opinion in Virology</i> , 2018 , 28, 142-151	17.5	301
64	SARS-CoV-2 is transmitted via contact and via the air between ferrets. <i>Nature Communications</i> , 2020 , 11, 3496	17.4	271
63	Identification, characterization, and natural selection of mutations driving airborne transmission of A/H5N1 virus. <i>Cell</i> , 2014 , 157, 329-339	56.2	188
62	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
61	Limited airborne transmission of H7N9 influenza A virus between ferrets. <i>Nature</i> , 2013 , 501, 560-3	50.4	164
60	Infectious disease. How a virus travels the world. <i>Science</i> , 2015 , 347, 616-7	33.3	130
59	Introduction of virulence markers in PB2 of pandemic swine-origin influenza virus does not result in enhanced virulence or transmission. <i>Journal of Virology</i> , 2010 , 84, 3752-8	6.6	118
58	The multibasic cleavage site in H5N1 virus is critical for systemic spread along the olfactory and hematogenous routes in ferrets. <i>Journal of Virology</i> , 2012 , 86, 3975-84	6.6	102
57	One health, multiple challenges: The inter-species transmission of influenza A virus. <i>One Health</i> , 2015 , 1, 1-13	7.6	101
56	Recovery of human metapneumovirus genetic lineages a and B from cloned cDNA. <i>Journal of Virology</i> , 2004 , 78, 8264-70	6.6	82
55	Influenza A viruses are transmitted via the air from the nasal respiratory epithelium of ferrets. <i>Nature Communications</i> , 2020 , 11, 766	17.4	78
54	Intranasal fusion inhibitory lipopeptide prevents direct-contact SARS-CoV-2 transmission in ferrets. <i>Science</i> , 2021 , 371, 1379-1382	33.3	72

53	Drivers of airborne human-to-human pathogen transmission. <i>Current Opinion in Virology</i> , 2017 , 22, 22-29	7.5	62
52	Possible increased pathogenicity of pandemic (H1N1) 2009 influenza virus upon reassortment. <i>Emerging Infectious Diseases</i> , 2011 , 17, 200-8	10.2	62
51	Viral factors in influenza pandemic risk assessment. <i>ELife</i> , 2016 , 5,	8.9	61
50	Low-pH-induced membrane fusion mediated by human metapneumovirus F protein is a rare, strain-dependent phenomenon. <i>Journal of Virology</i> , 2008 , 82, 8891-5	6.6	56
49	SARS-CoV and SARS-CoV-2 are transmitted through the air between ferrets over more than one meter distance. <i>Nature Communications</i> , 2021 , 12, 1653	17.4	53
48	Improving pandemic influenza risk assessment. <i>ELife</i> , 2014 , 3, e03883	8.9	45
47	Experimental infection of macaques with human metapneumovirus induces transient protective immunity. <i>Journal of General Virology</i> , 2007 , 88, 1251-1259	4.9	42
46	Immunization of Syrian golden hamsters with F subunit vaccine of human metapneumovirus induces protection against challenge with homologous or heterologous strains. <i>Journal of General Virology</i> , 2007 , 88, 2702-2709	4.9	42
45	Multidrug resistant 2009 A/H1N1 influenza clinical isolate with a neuraminidase I223R mutation retains its virulence and transmissibility in ferrets. <i>PLoS Pathogens</i> , 2011 , 7, e1002276	7.6	37
44	Low Virulence and Lack of Airborne Transmission of the Dutch Highly Pathogenic Avian Influenza Virus H5N8 in Ferrets. <i>PLoS ONE</i> , 2015 , 10, e0129827	3.7	36
43	Avian influenza A viruses: from zoonosis to pandemic. <i>Future Virology</i> , 2014 , 9, 513-524	2.4	35
42	Immunogenicity and efficacy of two candidate human metapneumovirus vaccines in cynomolgus macaques. <i>Vaccine</i> , 2008 , 26, 4224-30	4.1	35
41	An improved plaque reduction virus neutralization assay for human metapneumovirus. <i>Journal of Virological Methods</i> , 2007 , 143, 169-74	2.6	34
40	Amino Acid Substitutions That Affect Receptor Binding and Stability of the Hemagglutinin of Influenza A/H7N9 Virus. <i>Journal of Virology</i> , 2016 , 90, 3794-9	6.6	33
39	Reassortment between Avian H5N1 and human influenza viruses is mainly restricted to the matrix and neuraminidase gene segments. <i>PLoS ONE</i> , 2013 , 8, e59889	3.7	32
38	Human Clade 2.3.4.4 A/H5N6 Influenza Virus Lacks Mammalian Adaptation Markers and Does Not Transmit via the Airborne Route between Ferrets. <i>MSphere</i> , 2018 , 3,	5	30
37	Delineating morbillivirus entry, dissemination and airborne transmission by studying in vivo competition of multicolor canine distemper viruses in ferrets. <i>PLoS Pathogens</i> , 2017 , 13, e1006371	7.6	28
36	Generation of temperature-sensitive human metapneumovirus strains that provide protective immunity in hamsters. <i>Journal of General Virology</i> , 2008 , 89, 1553-1562	4.9	27

35	Comparative Pathogenesis Of COVID-19, MERS And SARS In A Non-Human Primate Model		27
34	Fusion protein is the main determinant of metapneumovirus host tropism. <i>Journal of General Virology</i> , 2009 , 90, 1408-1416	4.9	25
33	Insertion of a multibasic cleavage site in the haemagglutinin of human influenza H3N2 virus does not increase pathogenicity in ferrets. <i>Journal of General Virology</i> , 2011 , 92, 1410-1415	4.9	25
32	Vaccination approaches to combat human metapneumovirus lower respiratory tract infections. <i>Journal of Clinical Virology</i> , 2008 , 41, 49-52	14.5	24
31	SARS-CoV-2 is transmitted via contact and via the air between ferrets		24
30	Optimisations and Challenges Involved in the Creation of Various Bioluminescent and Fluorescent Influenza A Virus Strains for In Vitro and In Vivo Applications. <i>PLoS ONE</i> , 2015 , 10, e0133888	3.7	23
29	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins. <i>PLoS Pathogens</i> , 2021 , 17, e1009282	7.6	23
28	Influenza A Virus Reassortment Is Limited by Anatomical Compartmentalization following Coinfection via Distinct Routes. <i>Journal of Virology</i> , 2018 , 92,	6.6	23
27	The future of research and publication on altered H5N1 viruses. <i>Journal of Infectious Diseases</i> , 2012 , 205, 1628-31	7	21
26	Avian Influenza A Virus Pandemic Preparedness and Vaccine Development. <i>Vaccines</i> , 2018 , 6,	5.3	18
25	SARS-CoV-2 neutralizing human antibodies protect against lower respiratory tract disease in a hamster model		16
24	SARS-CoV-2 Neutralizing Human Antibodies Protect Against Lower Respiratory Tract Disease in a Hamster Model. <i>Journal of Infectious Diseases</i> , 2021 , 223, 2020-2028	7	16
23	Characterizing Emerging Canine H3 Influenza Viruses. <i>PLoS Pathogens</i> , 2020 , 16, e1008409	7.6	15
22	The Molecular Basis for Antigenic Drift of Human A/H2N2 Influenza Viruses. <i>Journal of Virology</i> , 2019 , 93,	6.6	14
21	Mutations Driving Airborne Transmission of A/H5N1 Virus in Mammals Cause Substantial Attenuation in Chickens only when combined. <i>Scientific Reports</i> , 2017 , 7, 7187	4.9	14
20	Influenza A (H10N7) Virus Causes Respiratory Tract Disease in Harbor Seals and Ferrets. <i>PLoS ONE</i> , 2016 , 11, e0159625	3.7	12
19	Specificity and functional interaction of the polymerase complex proteins of human and avian metapneumoviruses. <i>Journal of General Virology</i> , 2008 , 89, 975-983	4.9	11
18	Animal models of SARS-CoV-2 transmission. <i>Current Opinion in Virology</i> , 2021 , 50, 8-16	7.5	11

17	SARS-CoV and SARS-CoV-2 are transmitted through the air between ferrets over more than one meter distance		9
16	Lack of Middle East Respiratory Syndrome Coronavirus Transmission in Rabbits. <i>Viruses</i> , 2019 , 11,	6.2	8
15	Comparison of three air samplers for the collection of four nebulized respiratory viruses - Collection of respiratory viruses from air. <i>Indoor Air</i> , 2021 , 31, 1874-1885	5.4	5
14	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins		2
13	3D visualization of SARS-CoV-2 infection and receptor distribution in Syrian hamster lung lobes display distinct spatial arrangements		2
12	Glycan remodeled erythrocytes facilitate antigenic characterization of recent A/H3N2 influenza viruses. <i>Nature Communications</i> , 2021 , 12, 5449	17.4	2
11	Distinct spatial arrangements of ACE2 and TMPRSS2 expression in Syrian hamster lung lobes dictates SARS-CoV-2 infection patterns.. <i>PLoS Pathogens</i> , 2022 , 18, e1010340	7.6	2
10	Contribution of neuraminidase to the efficacy of seasonal split influenza vaccines in the ferret model.. <i>Journal of Virology</i> , 2022 , jvi0195921	6.6	1
9	Glycan remodeled erythrocytes facilitate antigenic characterization of recent A/H3N2 influenza viruses		1
8	Characterization of changes in the hemagglutinin that accompanied the emergence of H3N2/1968 pandemic influenza viruses. <i>PLoS Pathogens</i> , 2021 , 17, e1009566	7.6	1
7	Small quantities of respiratory syncytial virus RNA only in large droplets around infants hospitalized with acute respiratory infections. <i>Antimicrobial Resistance and Infection Control</i> , 2021 , 10, 100	6.2	0
6	Characterizing Emerging Canine H3 Influenza Viruses 2020 , 16, e1008409		
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