M C Chan

List of Publications by Year
in descending order

73 papers	7,019 citations	117625 34 h-index	102487 66 g-index
77 all docs	77 docs citations	77 times ranked	12148 citing authors

#	Article	IF	Citations
1	Stability of SARS-CoV-2 in different environmental conditions. Lancet Microbe, The, 2020, 1, e10.	7.3	1,479
2	Remdesivir, lopinavir, emetine, and homoharringtonine inhibit SARS-CoV-2 replication in vitro. Antiviral Research, 2020, 178, 104786.	4.1	737
3	SARS-CoV-2 Omicron variant replication in human bronchus and lung ex vivo. Nature, 2022, 603, 715-720.	27.8	577
4	Proinflammatory cytokine responses induced by influenza A (H5N1) viruses in primary human alveolar and bronchial epithelial cells. Respiratory Research, 2005, 6, 135.	3.6	442
5	Tropism, replication competence, and innate immune responses of the coronavirus SARS-CoV-2 in human respiratory tract and conjunctiva: an analysis in ex-vivo and in-vitro cultures. Lancet Respiratory Medicine,the, 2020, 8, 687-695.	10.7	437
6	Tropism of avian influenza A (H5N1) in the upper and lower respiratory tract. Nature Medicine, 2007, 13, 147-149.	30.7	303
7	Glycomic Analysis of Human Respiratory Tract Tissues and Correlation with Influenza Virus Infection. PLoS Pathogens, 2013, 9, e1003223.	4.7	209
8	Human mesenchymal stromal cells reduce influenza A H5N1-associated acute lung injury in vitro and in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3621-3626.	7.1	174
9	Tropism of and Innate Immune Responses to the Novel Human Betacoronavirus Lineage C Virus in Human Ex Vivo Respiratory Organ Cultures. Journal of Virology, 2013, 87, 6604-6614.	3.4	158
10	Amino Acid Substitutions in Polymerase Basic Protein 2 Gene Contribute to the Pathogenicity of the Novel A/H7N9 Influenza Virus in Mammalian Hosts. Journal of Virology, 2014, 88, 3568-3576.	3.4	146
11	Viral Replication and Innate Host Responses in Primary Human Alveolar Epithelial Cells and Alveolar Macrophages Infected with Influenza H5N1 and H1N1 Viruses. Journal of Virology, 2011, 85, 6844-6855.	3.4	144
12	MERS coronaviruses from camels in Africa exhibit region-dependent genetic diversity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3144-3149.	7.1	142
13	Influenza Virus Non-Structural Protein 1 (NS1) Disrupts Interferon Signaling. PLoS ONE, 2010, 5, e13927.	2.5	140
14	Tropism and Innate Host Responses of the 2009 Pandemic H1N1 Influenza Virus in ex Vivo and in Vitro Cultures of Human Conjunctiva and Respiratory Tract. American Journal of Pathology, 2010, 176, 1828-1840.	3.8	111
15	Therapeutic Implications of Human Umbilical Cord Mesenchymal Stromal Cells in Attenuating Influenza A(H5N1) Virusâ€“Associated Acute Lung Injury. Journal of Infectious Diseases, 2019, 219, 186-196.	4.0	102
16	Influenza H5N1 virus infection of polarized human alveolar epithelial cells and lung microvascular endothelial cells. Respiratory Research, 2009, 10, 102.	3.6	99
17	Tropism, replication competence, and innate immune responses of influenza virus: an analysis of human airway organoids and ex-vivo bronchus cultures. Lancet Respiratory Medicine,the, 2018, 6, 846-854.	10.7	99
18	Novel Pandemic Influenza A(H1N1) Viruses Are Potently Inhibited by DAS181, a Sialidase Fusion Protein. PLoS ONE, 2009, 4, e7788.	2.5	91

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19	Tropism and innate host responses of a novel avian influenza A H7N9 virus: an analysis of ex-vivo and in-vitro cultures of the human respiratory tract. Lancet Respiratory Medicine,the, 2013, 1, 534-542.	10.7	88
20	Tropism and replication of Middle East respiratory syndrome coronavirus from dromedary camels in the human respiratory tract: an in-vitro and ex-vivo study. Lancet Respiratory Medicine,the, 2014, 2, 813-822.	10.7	86
21	Influenza H5N1 and H1N1 Virus Replication and Innate Immune Responses in Bronchial Epithelial Cells Are Influenced by the State of Differentiation. PLoS ONE, 2010, 5, e8713.	2.5	85
22	DAS181 Inhibits H5N1 Influenza Virus Infection of Human Lung Tissues. Antimicrobial Agents and Chemotherapy, 2009, 53, 3935-3941.	3.2	66
23	Amino Acid Residues 253 and 591 of the PB2 Protein of Avian Influenza Virus A H9N2 Contribute to Mammalian Pathogenesis. Journal of Virology, 2011, 85, 9641-9645.	3.4	65
24	Simeprevir Potently Suppresses SARS-CoV-2 Replication and Synergizes with Remdesivir. ACS Central Science, 2021, 7, 792-802.	11.3	59
25	DAS181, a sialidase fusion protein, protects human airway epithelium against influenza virus infection: an in vitro pharmacodynamic analysis. Journal of Antimicrobial Chemotherapy, 2010, 65, 275-284.	3.0	54
26	Entry of Influenza A Virus with a Î±2,6-Linked Sialic Acid Binding Preference Requires Host Fibronectin. Journal of Virology, 2012, 86, 10704-10713.	3.4	54
27	Full Factorial Analysis of Mammalian and Avian Influenza Polymerase Subunits Suggests a Role of an Efficient Polymerase for Virus Adaptation. PLoS ONE, 2009, 4, e5658.	2.5	53
28	Effect of interferon alpha and cyclosporine treatment separately and in combination on Middle East Respiratory Syndrome Coronavirus (MERS-CoV) replication in a human in-vitro and ex-vivo culture model. Antiviral Research, 2018, 155, 89-96.	4.1	51
29	Viral Genetic Determinants of H5N1 Influenza Viruses That Contribute to Cytokine Dysregulation. Journal of Infectious Diseases, 2009, 200, 1104-1112.	4.0	46
30	Use of ex vivo and in vitro cultures of the human respiratory tract to study the tropism and host responses of highly pathogenic avian influenza A (H5N1) and other influenza viruses. Virus Research, 2013, 178, 133-145.	2.2	42
31	Systems-level comparison of host responses induced by pandemic and seasonal influenza A H1N1 viruses in primary human type I-like alveolar epithelial cells in vitro. Respiratory Research, 2010, 11, 147.	3.6	40
32	H5N1 Influenza Virusâ€“Induced Mediators Upregulate RIG-I in Uninfected Cells by Paracrine Effects Contributing to Amplified Cytokine Cascades. Journal of Infectious Diseases, 2011, 204, 1866-1878.	4.0	40
33	Production of amphiregulin and recovery from influenza is greater in males than females. Biology of Sex Differences, 2018, 9, 24.	4.1	40
34	Cell Cycle-independent Role of Cyclin D3 in Host Restriction of Influenza Virus Infection. Journal of Biological Chemistry, 2017, 292, 5070-5088.	3.4	37
35	Tissue Tropism of Swine Influenza Viruses and Reassortants in Ex Vivo Cultures of the Human Respiratory Tract and Conjunctiva. Journal of Virology, 2011, 85, 11581-11587.	3.4	35
36	Anti-inflammatory and antiviral effects of indirubin derivatives in influenza A (H5N1) virus infected primary human peripheral blood-derived macrophages and alveolar epithelial cells. Antiviral Research, 2014, 106, 95-104.	4.1	34

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37	Tropism of influenza B viruses in human respiratory tract explants and airway organoids. European Respiratory Journal, 2019, 54, 1900008.	6.7	34
38	Comparable Fitness and Transmissibility between Oseltamivir-Resistant Pandemic 2009 and Seasonal H1N1 Influenza Viruses with the H275Y Neuraminidase Mutation. Journal of Virology, 2012, 86, 10558-10570.	3.4	33
39	Introduction of ORF3a-Q57H SARS-CoV-2 Variant Causing Fourth Epidemic Wave of COVID-19, Hong Kong, China. Emerging Infectious Diseases, 2021, 27, 1492-1495.	4.3	33
40	Infection of swine ex vivo tissues with avian viruses including H7N9 and correlation with glycomic analysis. Influenza and Other Respiratory Viruses, 2013, 7, 1269-1282.	3.4	30
41	Highly pathogenic avian influenza H5N1 virus delays apoptotic responses via activation of STAT3. Scientific Reports, 2016, 6, 28593.	3.3	29
42	Characterizing Emerging Canine H3 Influenza Viruses. PLoS Pathogens, 2020, 16, e1008409.	4.7	29
43	Tropism and innate host responses of influenza A/H5N6 virus: an analysis ofexÂvivoandin vitrocultures of the human respiratory tract. European Respiratory Journal, 2017, 49, 1601710.	6.7	27
44	Anti-inflammatory effects of indirubin derivatives on influenza A virus-infected human pulmonary microvascular endothelial cells. Scientific Reports, 2016, 6, 18941.	3.3	21
45	Phenotypic and genetic characterization of MERS coronaviruses from Africa to understand their zoonotic potential. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
46	Evaluation of the human adaptation of influenza A/H7N9 virus in PB2 protein using human and swine respiratory tract explant cultures. Scientific Reports, 2016, 6, 35401.	3.3	18
47	Human liver organoid derived intra-hepatic bile duct cells support SARS-CoV-2 infection and replication. Scientific Reports, 2022, 12, 5375.	3.3	18
48	Proinflammatory Cytokine Response and Viral Replication in Mouse Bone Marrow Derived Macrophages Infected with Influenza H1N1 and H5N1 Viruses. PLoS ONE, 2012, 7, e51057.	2.5	17
49	Molecular Detection of Human H7N9 Influenza A Virus Causing Outbreaks in China. Clinical Chemistry, 2013, 59, 1062-1067.	3.2	15
50	Role of Epithelialâ€“Endothelial Cell Interaction in the Pathogenesis of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection. Clinical Infectious Diseases, 2022, 74, 199-209.	5.8	15
51	Modulation of sterol biosynthesis regulates viral replication and cytokine production in influenza A virus infected human alveolar epithelial cells. Antiviral Research, 2015, 119, 1-7.	4.1	13
52	Risk Assessment for Highly Pathogenic Avian Influenza A(H5N6/H5N8) Clade 2.3.4.4 Viruses. Emerging Infectious Diseases, 2021, 27, 2619-2627.	4.3	12
53	Heterosubtypic Protection Induced by a Live Attenuated Influenza Virus Vaccine Expressing Galactose-Î±-1,3-Galactose Epitopes in Infected Cells. MBio, 2020, 11, .	4.1	10
54	Risk Assessment of the Tropism and Pathogenesis of the Highly Pathogenic Avian Influenza A/H7N9 Virus Using Ex Vivo and In Vitro Cultures of Human Respiratory Tract. Journal of Infectious Diseases, 2019, 220, 578-588.	4.0	9

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55	SARS-CoV-2 infection in conjunctival tissue â€“ Authors' reply. Lancet Respiratory Medicine,the, 2020, 8, e58.	10.7	8
56	Replication of H9 influenza viruses in the human ex vivo respiratory tract, and the influence of neuraminidase on virus release. Scientific Reports, 2017, 7, 6208.	3.3	7
57	Ancestral sequence reconstruction pinpoints adaptations that enable avian influenza virus transmission in pigs. Nature Microbiology, 2021, 6, 1455-1465.	13.3	7
58	Oral and Poster Manuscripts. Influenza and Other Respiratory Viruses, 2011, 5, 54-442.	3.4	5
59	Tropism of SARS-CoV-2, SARS-CoV, and Influenza Virus in Canine Tissue Explants. Journal of Infectious Diseases, 2021, 224, 821-830.	4.0	5
60	Differential onset of apoptosis in avian influenza H5N1 and seasonal H1N1 virus infected human bronchial and alveolar epithelial cells: an and study. Influenza and Other Respiratory Viruses, 2011, 5, 437-438.	3.4	5
61	The regional distribution of different types of influenza receptors in cultured human alveolar epithelial cells and correlation with infection. Influenza and Other Respiratory Viruses, 2011, 5, 436-437.	3.4	5
62	Pathogenesis of SARS coronavirus infection using human lung epithelial cells: an in vitro model. Hong Kong Medical Journal, 2011, 17 Suppl 6, 31-5.	0.1	5
63	Replication and pathogenesis of avian influenza A (H5N1) virus infection in polarised human bronchial and alveolar epithelium. Hong Kong Medical Journal, 2013, 19 Suppl 4, 24-8.	0.1	2
64	A52â€ƒMERS coronaviruses from camels in Africa exhibit region-dependent genetic diversity. Virus Evolution, 2019, 5, .	4.9	1
65	Replication and innate host response of influenza A virus in lung microvascular endothelial cells: new insights into systemic infection and pathogenesis. Influenza and Other Respiratory Viruses, 2011, 5, 287-288.	3.4	1
66	Replication of avian and seasonal influenza viruses in human bronchus and lung. Influenza and Other Respiratory Viruses, 2011, 5, 425-426.	3.4	1
67	Tropism of the novel human betacoronavirus lineage C virus in human ex vivo and in vitro cultures: potential transmissibility and pathogenesis in humans (abridged secondary publication). Hong Kong Medical Journal, 2021, 27 Suppl 2, 28-32.	0.1	0
68	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
69	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
70	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
71	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
72	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0

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73	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0