Christian Lorenz Althaus

List of Publications by Year
in descending order

67 papers	6,606 citations	159585 30 h-index	106344 65 g-index
110 all docs	110 docs citations	110 times ranked	9386 citing authors

#	Article	IF	Citations
1	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. Nature, 2022, 603, 679-686.	27.8	1,210
2	Pattern of early human-to-human transmission of Wuhan 2019 novel coronavirus (2019-nCoV), December 2019 to January 2020. Eurosurveillance, 2020, 25, .	7.0	1,057
3	Emergence of SARS-CoV-2 Omicron lineages BA.4 and BA.5 in South Africa. Nature Medicine, 2022, 28, 1785-1790.	30.7	456
4	Spread of a SARS-CoV-2 variant through Europe in the summer of 2020. Nature, 2021, 595, 707-712.	27.8	363
5	Estimating the Reproduction Number of Ebola Virus (EBOV) During the 2014 Outbreak in West Africa. PLOS Currents, 2014, 6, .	1.4	321
6	Dynamic interventions to control COVID-19 pandemic: a multivariate prediction modelling study comparing 16 worldwide countries. European Journal of Epidemiology, 2020, 35, 389-399.	5.7	210
7	Dynamics of Immune Escape during HIV/SIV Infection. PLoS Computational Biology, 2008, 4, e1000103.	3.2	120
8	Estimation of SARS-CoV-2 mortality during the early stages of an epidemic: A modeling study in Hubei, China, and six regions in Europe. PLoS Medicine, 2020, 17, e1003189.	8.4	120
9	Recombination in HIV and the evolution of drug resistance: for better or for worse?. BioEssays, 2004, 26, 180-188.	2.5	108
10	Ebola virus disease outbreak in Nigeria: Transmission dynamics and rapid control. Epidemics, 2015, 11, 80-84.	3.0	106
11	Stochastic or deterministic: what is the effective population size of HIV-1?. Trends in Microbiology, 2006, 14, 507-511.	7.7	90
12	Stochastic Interplay between Mutation and Recombination during the Acquisition of Drug Resistance Mutations in Human Immunodeficiency Virus Type 1. Journal of Virology, 2005, 79, 13572-13578.	3.4	85
13	Socioeconomic position and the COVID-19 care cascade from testing to mortality in Switzerland: a population-based analysis. Lancet Public Health, The, 2021, 6, e683-e691.	10.0	85
14	Antibiotic-Resistant Neisseria gonorrhoeae Spread Faster with More Treatment, Not More Sexual Partners. PLoS Pathogens, 2016, 12, e1005611.	4.7	84
15	Ebola superspreading. Lancet Infectious Diseases, The, 2015, 15, 507-508.	9.1	82
16	Time-kill curve analysis and pharmacodynamic modelling for in vitro evaluation of antimicrobials against Neisseria gonorrhoeae. BMC Microbiology, 2016, 16, 216.	3.3	81
17	Transmission dynamics of Chlamydia trachomatis affect the impact of screening programmes. Epidemics, 2010, 2, 123-131.	3.0	78
18	COVID-19 infectivity profile correction. Swiss Medical Weekly, 2020, 150, w20336.	1.6	77

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19	Effectiveness and cost-effectiveness of traditional and new partner notification technologies for curable sexually transmitted infections: observational study, systematic reviews and mathematical modelling. Health Technology Assessment, 2014, 18, 1-100, vii-viii.	2.8	73
20	Intracellular transactivation of HIV can account for the decelerating decay of virus load during drug therapy. Molecular Systems Biology, 2010, 6, 348.	7.2	71
21	Transmission ofChlamydia trachomatisthrough sexual partnerships: a comparison between three individual-based models and empirical data. Journal of the Royal Society Interface, 2012, 9, 136-146.	3.4	63
22	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. Nature, 0, , .	27.8	61
23	Dynamics of CD8+ T Cell Responses during Acute and Chronic Lymphocytic Choriomeningitis Virus Infection. Journal of Immunology, 2007, 179, 2944-2951.	0.8	60
24	The Role of Reinfection and Partner Notification in the Efficacy of Chlamydia Screening Programs. Journal of Infectious Diseases, 2011, 203, 372-377.	4.0	59
25	How Relevant Is Sexual Transmission of Zika Virus?. PLoS Medicine, 2016, 13, e1002157.	8.4	58
26	Reassessing the Human Immunodeficiency Virus Type 1 Life Cycle through Age-Structured Modeling: Life Span of Infected Cells, Viral Generation Time, and Basic Reproductive Number,R₀. Journal of Virology, 2009, 83, 7659-7667.	3.4	44
27	Timing of progression from Chlamydia trachomatisinfection to pelvic inflammatory disease: a mathematical modelling study. BMC Infectious Diseases, 2012, 12, 187.	2.9	44
28	Genetic Resistance Determinants, In Vitro Time-Kill Curve Analysis and Pharmacodynamic Functions for the Novel Topoisomerase II Inhibitor ETX0914 (AZD0914) in Neisseria gonorrhoeae. Frontiers in Microbiology, 2015, 6, 1377.	3.5	44
29	Implications of CTL-Mediated Killing of HIV-Infected Cells during the Non-Productive Stage of Infection. PLoS ONE, 2011, 6, e16468.	2.5	43
30	Insights into the timing of repeated testing after treatment forChlamydia trachomatis: data and modelling study. Sexually Transmitted Infections, 2013, 89, 57-62.	1.9	40
31	The use of mathematical modeling studies for evidence synthesis and guideline development: A glossary. Research Synthesis Methods, 2019, 10, 125-133.	8.7	38
32	Replacement of the Gamma by the Delta variant in Brazil: Impact of lineage displacement on the ongoing pandemic. Virus Evolution, 2022, 8, veac024.	4.9	37
33	Towards More Robust Estimates of the Transmissibility of Chlamydia trachomatis. Sexually Transmitted Diseases, 2012, 39, 402-404.	1.7	35
34	Quantification of the spread of SARS-CoV-2 variant B.1.1.7 in Switzerland. Epidemics, 2021, 37, 100480.	3.0	34
35	The approximately universal shapes of epidemic curves in the Susceptible-Exposed-Infectious-Recovered (SEIR) model. Scientific Reports, 2020, 10, 19365.	3.3	33
36	Individual and Population Level Effects of Partner Notification for Chlamydia trachomatis. PLoS ONE, 2012, 7, e51438.	2.5	32

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37	A new rapid resazurin-based microdilution assay for antimicrobial susceptibility testing of Neisseria gonorrhoeae. Journal of Antimicrobial Chemotherapy, 2017, 72, 1961-1968.	3.0	32
38	Detection of antibiotic resistance is essential for gonorrhoea point-of-care testing: a mathematical modelling study. BMC Medicine, 2017, 15, 142.	5.5	30
39	Describing the Progression From Chlamydia trachomatis and Neisseria gonorrhoeae to Pelvic Inflammatory Disease. Sexually Transmitted Diseases, 2012, 39, 628-637.	1.7	29
40	Heterogeneity in District-Level Transmission of Ebola Virus Disease during the 2013-2015 Epidemic in West Africa. PLoS Neglected Tropical Diseases, 2016, 10, e0004867.	3.0	27
41	Exploring variation in human papillomavirus vaccination uptake in Switzerland: a multilevel spatial analysis of a national vaccination coverage survey. BMJ Open, 2018, 8, e021006.	1.9	25
42	A Data-Driven Simulation of the Exposure Notification Cascade for Digital Contact Tracing of SARS-CoV-2 in Zurich, Switzerland. JAMA Network Open, 2021, 4, e218184.	5.9	25
43	Potential Impact of Sexual Transmission on Ebola Virus Epidemiology: Sierra Leone as a Case Study. PLoS Neglected Tropical Diseases, 2016, 10, e0004676.	3.0	23
44	Reinfection by untreated partners of people treated forChlamydia trachomatisandNeisseria gonorrhoeae: mathematical modelling study. Sexually Transmitted Infections, 2014, 90, 254-256.	1.9	22
45	Modeling the consequences of regional heterogeneity in human papillomavirus (HPV) vaccination uptake on transmission in Switzerland. Vaccine, 2017, 35, 7312-7321.	3.8	21
46	Quantifying the Turnover of Transcriptional Subclasses of HIV-1-Infected Cells. PLoS Computational Biology, 2014, 10, e1003871.	3.2	19
47	Transmission of and susceptibility to seasonal influenza in Switzerland from 2003 to 2015. Epidemics, 2020, 30, 100373.	3.0	19
48	Quantifying superspreading for COVID-19 using Poisson mixture distributions. Scientific Reports, 2021, 11, 14107.	3.3	17
49	Rapid drop in the reproduction number during the Ebola outbreak in the Democratic Republic of Congo. PeerJ, 2015, 3, e1418.	2.0	17
50	Does infection with Chlamydia trachomatis induce long-lasting partial immunity? Insights from mathematical modelling. Sexually Transmitted Infections, 2019, 95, 115-121.	1.9	16
51	Direct and Indirect Effects of Screening for Chlamydia trachomatis on the Prevention of Pelvic Inflammatory Disease. Epidemiology, 2013, 24, 854-862.	2.7	15
52	Measles Vaccination Coverage and Cases among Vaccinated Persons. Emerging Infectious Diseases, 2015, 21, 1480-1481.	4.3	13
53	Impaired immune evasion in HIV through intracellular delays and multiple infection of cells. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3003-3010.	2.6	11
54	Case and partnership reproduction numbers for a curable sexually transmitted infection. Journal of Theoretical Biology, 2013, 331, 38-47.	1.7	11

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55	Of mice, macaques and men: scaling of virus dynamics and immune responses. Frontiers in Microbiology, 2015, 6, 355.	3.5	10
56	The epidemic volatility index, a novel early warning tool for identifying new waves in an epidemic. Scientific Reports, 2021, 11, 23775.	3.3	10
57	Impact of age-specific immunity on the timing and burden of the next Zika virus outbreak. PLoS Neglected Tropical Diseases, 2019, 13, e0007978.	3.0	9
58	Discrepancies between observed data and predictions from mathematical modelling of the impact of screening interventions on Chlamydia trachomatis prevalence. Scientific Reports, 2019, 9, 7547.	3.3	8
59	Understanding the spread of de novo and transmitted macrolide-resistance in Mycoplasma genitalium. PeerJ, 2020, 8, e8913.	2.0	8
60	Drivers of HIV-1 drug resistance to non-nucleoside reverse-transcriptase inhibitors (NNRTIs) in nine southern African countries: a modelling study. BMC Infectious Diseases, 2021, 21, 1042.	2.9	7
61	Rise and fall of the new variant of Chlamydia trachomatis in Sweden: mathematical modelling study. Sexually Transmitted Infections, 2020, 96, 375-379.	1.9	6
62	Gini coefficients for measuring the distribution of sexually transmitted infections among individuals with different levels of sexual activity. PeerJ, 2020, 8, e8434.	2.0	6
63	Fitness cost and benefit of antimicrobial resistance in Neisseria gonorrhoeae: Multidisciplinary approaches are needed. PLoS Medicine, 2017, 14, e1002423.	8.4	5
64	Age difference between heterosexual partners in Britain: Implications for the spread of Chlamydia trachomatis. Epidemics, 2018, 24, 60-66.	3.0	4
65	Dynamic interventions to control COVID-19 pandemic: a multivariate prediction modelling study comparing 16 worldwide countries. , 2020, 35, 389.		1
66	A public health strategy for SARS-CoV-2, grounded in science, should guide Swiss schools through the coming winter. Swiss Medical Weekly, 2021, 151, w30086.	1.6	1
67	P08.34â€...Number of sex acts matters for heterosexual transmission and control ofchlamydia trachomatis. Sexually Transmitted Infections, 2015, 91, A145.2-A145.	1.9	0