

Leon Danon

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

7,907
citations

185998

28
h-index

123241

61
g-index

97
all docs

97
docs citations

97
times ranked

8776
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing community structure identification. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P09008-P09008.	0.9	1,889
2	Self-similar community structure in a network of human interactions. Physical Review E, 2003, 68, 065103.	0.8	1,092
3	COMMUNITY STRUCTURE IN JAZZ. International Journal of Modeling, Simulation, and Scientific Computing, 2003, 06, 565-573.	0.9	881
4	Risk of mortality in patients infected with SARS-CoV-2 variant of concern 202012/1: matched cohort study. BMJ, The, 2021, 372, n579.	3.0	648
5	Unified Scaling Law for Earthquakes. Physical Review Letters, 2002, 88, 178501.	2.9	577
6	Networks and the Epidemiology of Infectious Disease. Interdisciplinary Perspectives on Infectious Diseases, 2011, 2011, 1-28.	0.6	299
7	Demographic structure and pathogen dynamics on the network of livestock movements in Great Britain. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1999-2007.	1.2	198
8	The effect of size heterogeneity on community identification in complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P11010-P11010.	0.9	178
9	Community analysis in social networks. European Physical Journal B, 2004, 38, 373-380.	0.6	167
10	Mathematical modelling of infectious diseases. British Medical Bulletin, 2009, 92, 33-42.	2.7	131
11	Individual identity and movement networks for disease metapopulations. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8866-8870.	3.3	130
12	Unified scaling law for earthquakes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2509-2513.	3.3	123
13	Effectiveness of BNT162b2 and ChAdOx1 nCoV-19 COVID-19 vaccination at preventing hospitalisations in people aged at least 80 years: a test-negative, case-control study. Lancet Infectious Diseases, The, 2021, 21, 1539-1548.	4.6	115
14	Social encounter networks: characterizing Great Britain. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131037.	1.2	103
15	Social encounter networks: collective properties and disease transmission. Journal of the Royal Society Interface, 2012, 9, 2826-2833.	1.5	95
16	Impact of community structure on information transfer. Physical Review E, 2008, 77, 036103.	0.8	48
17	A Motif-Based Approach to Network Epidemics. Bulletin of Mathematical Biology, 2009, 71, 1693-1706.	0.9	48
18	Modelling that shaped the early COVID-19 pandemic response in the UK. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20210001.	1.8	48

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19	Association of Use of a Meningococcus Group B Vaccine With Group B Invasive Meningococcal Disease Among Children in Portugal. JAMA - Journal of the American Medical Association, 2020, 324, 2187.	3.8	46
20	The real communication network behind the formal chart: Community structure in organizations. Journal of Economic Behavior and Organization, 2006, 61, 653-667.	1.0	43
21	Oseltamivir for treatment and prevention of pandemic influenza A/H1N1 virus infection in households, Milwaukee, 2009. BMC Infectious Diseases, 2010, 10, 211.	1.3	43
22	A spatial model of COVID-19 transmission in England and Wales: early spread, peak timing and the impact of seasonality. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200272.	1.8	43
23	High COVID-19 transmission potential associated with re-opening universities can be mitigated with layered interventions. Nature Communications, 2021, 12, 5017.	5.8	43
24	The role of routine versus random movements on the spread of disease in Great Britain. Epidemics, 2009, 1, 250-258.	1.5	41
25	Student Behavior during a School Closure Caused by Pandemic Influenza A/H1N1. PLoS ONE, 2010, 5, e10425.	1.1	40
26	New Evidence on the HIV Epidemic in Libya. Journal of Acquired Immune Deficiency Syndromes (1999), 2013, 62, 577-583.	0.9	36
27	Vaccine escape in a heterogeneous population: insights for SARS-CoV-2 from a simple model. Royal Society Open Science, 2021, 8, 210530.	1.1	33
28	Upper respiratory tract colonization with <i>Streptococcus pneumoniae</i> in adults. Expert Review of Vaccines, 2020, 19, 353-366.	2.0	31
29	Estimating the contribution of key populations towards the spread of HIV in Dakar, Senegal. Journal of the International AIDS Society, 2018, 21, e25126.	1.2	30
30	Use of Cumulative Incidence of Novel Influenza A/H1N1 in Foreign Travelers to Estimate Lower Bounds on Cumulative Incidence in Mexico. PLoS ONE, 2009, 4, e6895.	1.1	29
31	Filling the Knowledge Gap: Measuring HIV Prevalence and Risk Factors among Men Who Have Sex with Men and Female Sex Workers in Tripoli, Libya. PLoS ONE, 2013, 8, e66701.	1.1	28
32	A flexible method for optimising sharing of healthcare resources and demand in the context of the COVID-19 pandemic. PLoS ONE, 2020, 15, e0241027.	1.1	27
33	Host community structure and the maintenance of pathogen diversity. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 1715-1721.	1.2	24
34	Estimating the COVID-19 epidemic trajectory and hospital capacity requirements in South West England: a mathematical modelling framework. BMJ Open, 2021, 11, e041536.	0.8	24
35	Mapping social distancing measures to the reproduction number for COVID-19. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200276.	1.8	24
36	Contacts and behaviours of university students during the COVID-19 pandemic at the start of the 2020/2021 academic year. Scientific Reports, 2021, 11, 11728.	1.6	23

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37	Assessing the Effectiveness of BNT162b2 and ChAdOx1nCoV-19 COVID-19 Vaccination in Prevention of Hospitalisations in Elderly and Frail Adults: A Single Centre Test Negative Case-Control Study. SSRN Electronic Journal, 0, , .	0.4	22
38	Detecting behavioural changes in human movement to inform the spatial scale of interventions against COVID-19. PLoS Computational Biology, 2021, 17, e1009162.	1.5	22
39	Defining the population attributable fraction for infectious diseases. International Journal of Epidemiology, 2017, 46, 976-982.	0.9	21
40	Tools to study trends in community structure: Application to fish and livestock trading networks. Preventive Veterinary Medicine, 2011, 99, 225-228.	0.7	19
41	Household bubbles and COVID-19 transmission: insights from percolation theory. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200284.	1.8	18
42	Mobile Messaging as Surveillance Tool during Pandemic (H1N1) 2009, Mexico. Emerging Infectious Diseases, 2010, 16, 1488-1489.	2.0	16
43	Seasonally timed treatment programs for <i>Ascaris lumbricoides</i> to increase impact—An investigation using mathematical models. PLoS Neglected Tropical Diseases, 2018, 12, e0006195.	1.3	15
44	Contingency planning for a deliberate release of smallpox in Great Britain - the role of geographical scale and contact structure. BMC Infectious Diseases, 2010, 10, 25.	1.3	14
45	Surveillance of influenza in Iceland during the 2009 pandemic. Eurosurveillance, 2010, 15, .	3.9	14
46	Pneumococcal Serotypes Colonise the Nasopharynx in Children at Different Densities. PLoS ONE, 2016, 11, e0163435.	1.1	12
47	Optimal information transmission in organizations: search and congestion. Review of Economic Design, 2010, 14, 75-93.	0.2	10
48	Estimates of regional infectivity of COVID-19 in the United Kingdom following imposition of social distancing measures. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200280.	1.8	10
49	Cell-phone traces reveal infection-associated behavioral change. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
50	Flying, phones and flu: Anonymized call records suggest that Keflavik International Airport introduced pandemic H1N1 into Iceland in 2009. Influenza and Other Respiratory Viruses, 2020, 14, 37-45.	1.5	8
51	The population attributable fraction of cases due to gatherings and groups with relevance to COVID-19 mitigation strategies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200273.	1.8	8
52	Testing the hypothesis of preferential attachment in social network formation. EPJ Data Science, 2015, 4, 13.	1.5	7
53	A novel approach for evaluating contact patterns and risk mitigation strategies for COVID-19 in English primary schools with application of structured expert judgement. Royal Society Open Science, 2021, 8, 201566.	1.1	7
54	Local Search with Congestion in Complex Communication Networks. Lecture Notes in Computer Science, 2004, , 1078-1085.	1.0	7

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55	Strategies for Controlling Non-Transmissible Infection Outbreaks Using a Large Human Movement Data Set. PLoS Computational Biology, 2014, 10, e1003809.	1.5	6
56	A model of tuberculosis clustering in low incidence countries reveals more transmission in the United Kingdom than the Netherlands between 2010 and 2015. PLoS Computational Biology, 2020, 16, e1007687.	1.5	6
57	A novel approach to calculate disease incidence for hospital-based health events in England. Lancet, The, 2021, 398, S30.	6.3	3
58	The need for data science in epidemic modelling. Physics of Life Reviews, 2016, 18, 102-104.	1.5	2
59	Factors influencing digital review of pathology test results in an inpatient setting: a cross-sectional study. JAMIA Open, 2020, 3, 290-298.	1.0	2
60	Modelling pooling strategies for SARS-CoV-2 testing in a university setting. Wellcome Open Research, 0, 6, 70.	0.9	2
61	Limits of lockdown: characterising essential contacts during strict physical distancing. Wellcome Open Research, 0, 6, 116.	0.9	2
62	Publisher's Note: Impact of community structure on information transfer [Phys. Rev. E77, 036103 (2008)]. Physical Review E, 2008, 77, .	0.8	1
63	University students and staff able to maintain low daily contact numbers during various COVID-19 guideline periods. Epidemiology and Infection, 2021, 149, .	1.0	1
64	MetaWards: A flexible metapopulation framework for modelling disease spread. Journal of Open Source Software, 2022, 7, 3914.	2.0	0
65	Title is missing!. , 2020, 16, e1007687.		0
66	Title is missing!. , 2020, 16, e1007687.		0
67	Title is missing!. , 2020, 16, e1007687.		0
68	Title is missing!. , 2020, 16, e1007687.		0
69	Title is missing!. , 2020, 16, e1007687.		0
70	Title is missing!. , 2020, 16, e1007687.		0