

Lauren Ancel Meyers

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.

146
papers

8,197
citations

46
h-index

88
g-index

165
ext. papers

9,900
ext. citations

7.2
avg, IF

6.57
L-index

#	Paper	IF	Citations
146	Network theory and SARS: predicting outbreak diversity. <i>Journal of Theoretical Biology</i> , 2005 , 232, 71-81	2.3	477
145	Perspective: Evolution and detection of genetic robustness. <i>Evolution; International Journal of Organic Evolution</i> , 2003 , 57, 1959-72	3.8	444
144	When individual behaviour matters: homogeneous and network models in epidemiology. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 879-91	4.1	432
143	Serial Interval of COVID-19 among Publicly Reported Confirmed Cases. <i>Emerging Infectious Diseases</i> , 2020 , 26, 1341-1343	10.2	421
142	PERSPECTIVE:EVOLUTION AND DETECTION OF GENETIC ROBUSTNESS. <i>Evolution; International Journal of Organic Evolution</i> , 2003 , 57, 1959	3.8	417
141	Projecting hospital utilization during the COVID-19 outbreaks in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9122-9126	11.5	298
140	Impact of international travel and border control measures on the global spread of the novel 2019 coronavirus outbreak. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7504-7509	11.5	296
139	Fighting change with change: adaptive variation in an uncertain world. <i>Trends in Ecology and Evolution</i> , 2002 , 17, 551-557	10.9	267
138	Risk for Transportation of Coronavirus Disease from Wuhan to Other Cities in China. <i>Emerging Infectious Diseases</i> , 2020 , 26, 1049-1052	10.2	253
137	Predicting epidemics on directed contact networks. <i>Journal of Theoretical Biology</i> , 2006 , 240, 400-18	2.3	204
136	Contact network epidemiology: Bond percolation applied to infectious disease prediction and control. <i>Bulletin of the American Mathematical Society</i> , 2006 , 44, 63-87	1.3	198
135	Susceptible-infected-recovered epidemics in dynamic contact networks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 2925-33	4.4	186
134	The dynamics of risk perceptions and precautionary behavior in response to 2009 (H1N1) pandemic influenza. <i>BMC Infectious Diseases</i> , 2010 , 10, 296	4	166
133	Applying network theory to epidemics: control measures for Mycoplasma pneumoniae outbreaks. <i>Emerging Infectious Diseases</i> , 2003 , 9, 204-10	10.2	150
132	Epidemic thresholds in dynamic contact networks. <i>Journal of the Royal Society Interface</i> , 2009 , 6, 233-41	4.1	146
131	The dynamic nature of contact networks in infectious disease epidemiology. <i>Journal of Biological Dynamics</i> , 2010 , 4, 478-89	2.4	136
130	ON THE ABUNDANCE OF POLYPLOIDS IN FLOWERING PLANTS. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1198-1206	3.8	133

129	Effects of heterogeneous and clustered contact patterns on infectious disease dynamics. <i>PLoS Computational Biology</i> , 2011 , 7, e1002042	5	119
128	Quasispecies made simple. <i>PLoS Computational Biology</i> , 2005 , 1, e61	5	118
127	The impact of vaccination on COVID-19 outbreaks in the United States. <i>Clinical Infectious Diseases</i> , 2021 ,	11.6	109
126	A comparative analysis of influenza vaccination programs. <i>PLoS Medicine</i> , 2006 , 3, e387	11.6	107
125	Initial human transmission dynamics of the pandemic (H1N1) 2009 virus in North America. <i>Influenza and Other Respiratory Viruses</i> , 2009 , 3, 215-22	5.6	106
124	Disease transmission in territorial populations: the small-world network of Serengeti lions. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 776-86	4.1	99
123	Enhancing disease surveillance with novel data streams: challenges and opportunities. <i>EPJ Data Science</i> , 2015 , 4,	3.4	96
122	Network frailty and the geometry of herd immunity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 2743-8	4.4	83
121	The impact of imitation on vaccination behavior in social contact networks. <i>PLoS Computational Biology</i> , 2012 , 8, e1002469	5	77
120	The ascent of the abundant: how mutational networks constrain evolution. <i>PLoS Computational Biology</i> , 2008 , 4, e1000110	5	71
119	Modeling control strategies of respiratory pathogens. <i>Emerging Infectious Diseases</i> , 2005 , 11, 1249-56	10.2	71
118	Distinguishing epidemic waves from disease spillover in a wildlife population. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 1777-85	4.4	69
117	The shifting demographic landscape of pandemic influenza. <i>PLoS ONE</i> , 2010 , 5, e9360	3.7	66
116	Exploring biological network structure with clustered random networks. <i>BMC Bioinformatics</i> , 2009 , 10, 405	3.6	65
115	Ebola control: effect of asymptomatic infection and acquired immunity. <i>Lancet, The</i> , 2014 , 384, 1499-500	4.0	63
114	Reassessment of HIV-1 acute phase infectivity: accounting for heterogeneity and study design with simulated cohorts. <i>PLoS Medicine</i> , 2015 , 12, e1001801	11.6	60
113	Cost-effectiveness of canine vaccination to prevent human rabies in rural Tanzania. <i>Annals of Internal Medicine</i> , 2014 , 160, 91-100	8	59
112	Erratic flu vaccination emerges from short-sighted behavior in contact networks. <i>PLoS Computational Biology</i> , 2011 , 7, e1001062	5	57

111	Opinion: Mathematical models: a key tool for outbreak response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18095-6	11.5	56
110	The serial interval of COVID-19 from publicly reported confirmed cases 2020 ,		56
109	Epidemiological and viral genomic sequence analysis of the 2014 ebola outbreak reveals clustered transmission. <i>Clinical Infectious Diseases</i> , 2015 , 60, 1079-82	11.6	52
108	How Mutational Networks Shape Evolution: Lessons from RNA Models. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007 , 38, 203-230	13.5	51
107	Network-based vaccination improves prospects for disease control in wild chimpanzees. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140349	4.1	50
106	Hierarchical social networks shape gut microbial composition in wild Verreaux's sifaka. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	50
105	Statistical power and validity of Ebola vaccine trials in Sierra Leone: a simulation study of trial design and analysis. <i>Lancet Infectious Diseases</i> , 2015 , 15, 703-10	25.5	49
104	Evolution of genetic potential. <i>PLoS Computational Biology</i> , 2005 , 1, 236-43	5	49
103	The robustness of naturally and artificially selected nucleic acid secondary structures. <i>Journal of Molecular Evolution</i> , 2004 , 58, 681-91	3.1	48
102	Epidemiology, hypermutation, within-host evolution and the virulence of <i>Neisseria meningitidis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 1667-77	4.4	48
101	On the abundance of polyploids in flowering plants. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1198-206	3.8	48
100	Impact of Social Distancing Measures on Coronavirus Disease Healthcare Demand, Central Texas, USA. <i>Emerging Infectious Diseases</i> , 2020 , 26, 2361-2369	10.2	45
99	Distributions of beneficial fitness effects in RNA. <i>Genetics</i> , 2005 , 170, 1449-57	4	43
98	Potential for rabies control through dog vaccination in wildlife-abundant communities of Tanzania. <i>PLoS Neglected Tropical Diseases</i> , 2012 , 6, e1796	4.8	41
97	Stockpiling Ventilators for Influenza Pandemics. <i>Emerging Infectious Diseases</i> , 2017 , 23, 914-921	10.2	38
96	Polyploid formation shapes flowering plant diversity. <i>American Naturalist</i> , 2014 , 184, 456-65	3.7	38
95	Infectious diseases and social distancing in nature. <i>Science</i> , 2021 , 371,	33.3	37
94	Respiratory virus transmission dynamics determine timing of asthma exacerbation peaks: Evidence from a population-level model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2194-9	11.5	35

93	Comparative cost-effectiveness of SARS-CoV-2 testing strategies in the USA: a modelling study. <i>Lancet Public Health, The</i> , 2021 , 6, e184-e191	22.4	35
92	Dengue dynamics and vaccine cost-effectiveness in Brazil. <i>Vaccine</i> , 2013 , 31, 3957-61	4.1	34
91	Optimizing allocation for a delayed influenza vaccination campaign. <i>PLOS Currents</i> , 2009 , 1, RRN1134		34
90	Terrestriality and bacterial transfer: a comparative study of gut microbiomes in sympatric Malagasy mammals. <i>ISME Journal</i> , 2019 , 13, 50-63	11.9	33
89	Optimizing provider recruitment for influenza surveillance networks. <i>PLoS Computational Biology</i> , 2012 , 8, e1002472	5	33
88	Disease Surveillance on Complex Social Networks. <i>PLoS Computational Biology</i> , 2016 , 12, e1004928	5	33
87	Projections for first-wave COVID-19 deaths across the US using social-distancing measures derived from mobile phones		33
86	Timing social distancing to avert unmanageable COVID-19 hospital surges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19873-19878	11.5	33
85	Geographic prioritization of distributing pandemic influenza vaccines. <i>Health Care Management Science</i> , 2012 , 15, 175-87	4	32
84	Optimizing tactics for use of the U.S. antiviral strategic national stockpile for pandemic influenza. <i>PLoS ONE</i> , 2011 , 6, e16094	3.7	32
83	Efficacy and optimization of palivizumab injection regimens against respiratory syncytial virus infection. <i>JAMA Pediatrics</i> , 2015 , 169, 341-8	8.3	31
82	Assessing real-time Zika risk in the United States. <i>BMC Infectious Diseases</i> , 2017 , 17, 284	4	29
81	Vaccination against 2009 pandemic H1N1 in a population dynamical model of Vancouver, Canada: timing is everything. <i>BMC Public Health</i> , 2011 , 11, 932	4.1	28
80	Optimal H1N1 vaccination strategies based on self-interest versus group interest. <i>BMC Public Health</i> , 2011 , 11 Suppl 1, S4	4.1	28
79	The impact of vaccination on COVID-19 outbreaks in the United States 2021 ,		28
78	Cost-effectiveness of a community-based intervention for reducing the transmission of <i>Schistosoma haematobium</i> and HIV in Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7952-7	11.5	27
77	Harnessing case isolation and ring vaccination to control Ebola. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0003794	4.8	27
76	Potential cost-effectiveness of schistosomiasis treatment for reducing HIV transmission in Africa--the case of Zimbabwean women. <i>PLoS Neglected Tropical Diseases</i> , 2013 , 7, e2346	4.8	27

75	Effects of Proactive Social Distancing on COVID-19 Outbreaks in 58 Cities, China. <i>Emerging Infectious Diseases</i> , 2020 , 26,	10.2	27
74	The impact of past epidemics on future disease dynamics. <i>Journal of Theoretical Biology</i> , 2012 , 309, 176-84	8.4	25
73	Simulating school closure policies for cost effective pandemic decision making. <i>BMC Public Health</i> , 2012 , 12, 449	4.1	25
72	Ebola vaccination in the Democratic Republic of the Congo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10178-10183	11.5	24
71	Probabilistic uncertainty analysis of epidemiological modeling to guide public health intervention policy. <i>Epidemics</i> , 2014 , 6, 37-45	5.1	24
70	From bad to good: Fitness reversals and the ascent of deleterious mutations. <i>PLoS Computational Biology</i> , 2006 , 2, e141	5	24
69	Epidemiological bridging by injection drug use drives an early HIV epidemic. <i>Epidemics</i> , 2010 , 2, 155-164	5.1	23
68	Seasonality in risk of pandemic influenza emergence. <i>PLoS Computational Biology</i> , 2017 , 13, e1005749	5	22
67	EpiFire: An open source C++ library and application for contact network epidemiology. <i>BMC Bioinformatics</i> , 2012 , 13, 76	3.6	20
66	Future epidemiological and economic impacts of universal influenza vaccines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20786-20792	11.5	20
65	Epidemiological effects of group size variation in social species. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130206	4.1	19
64	Estimated Association of Construction Work With Risks of COVID-19 Infection and Hospitalization in Texas. <i>JAMA Network Open</i> , 2020 , 3, e2026373	10.4	16
63	Controlling antimicrobial resistance through targeted, vaccine-induced replacement of strains. <i>PLoS ONE</i> , 2012 , 7, e50688	3.7	16
62	Local risk perception enhances epidemic control. <i>PLoS ONE</i> , 2019 , 14, e0225576	3.7	16
61	Modeling mitigation of influenza epidemics by baloxavir. <i>Nature Communications</i> , 2020 , 11, 2750	17.4	15
60	Evaluating large-scale blood transfusion therapy for the current Ebola epidemic in Liberia. <i>Journal of Infectious Diseases</i> , 2015 , 211, 1262-7	7	15
59	Epidemic Wave Dynamics Attributable to Urban Community Structure: A Theoretical Characterization of Disease Transmission in a Large Network. <i>Journal of Medical Internet Research</i> , 2015 , 17, e169	7.6	15
58	Equalizing access to pandemic influenza vaccines through optimal allocation to public health distribution points. <i>PLoS ONE</i> , 2017 , 12, e0182720	3.7	14

57	Who got vaccinated against H1N1 pandemic influenza? A longitudinal study in four U.S. cities. <i>Psychology and Health</i> , 2012 , 27, 101-15	2.9	13
56	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2113561119	11.5	13
55	Socioeconomic bias in influenza surveillance. <i>PLoS Computational Biology</i> , 2020 , 16, e1007941	5	12
54	The cost-effectiveness of oral HIV pre-exposure prophylaxis and early antiretroviral therapy in the presence of drug resistance among men who have sex with men in San Francisco. <i>BMC Medicine</i> , 2018 , 16, 58	11.4	12
53	Design Strategies for Efficient Arbovirus Surveillance. <i>Emerging Infectious Diseases</i> , 2017 , 23, 642-644	10.2	11
52	Optimizing tactics for use of the U.S. Antiviral Strategic National Stockpile for Pandemic (H1N1) Influenza, 2009. <i>PLOS Currents</i> , 2009 , 1, RRN1127		11
51	Using the COVID-19 to influenza ratio to estimate early pandemic spread in Wuhan, China and Seattle, US. <i>EClinicalMedicine</i> , 2020 , 26, 100479	11.3	11
50	Ebola virus vaccine trials: the ethical mandate for a therapeutic safety net. <i>BMJ, The</i> , 2014 , 349, g7518	5.9	10
49	Optimal targeting of seasonal influenza vaccination toward younger ages is robust to parameter uncertainty. <i>Vaccine</i> , 2013 , 31, 3079-89	4.1	10
48	COVID-19 serial interval estimates based on confirmed cases in public reports from 86 Chinese cities 2020 ,		10
47	Optimal multi-source forecasting of seasonal influenza. <i>PLoS Computational Biology</i> , 2018 , 14, e1006236		10
46	Conflict and accord of optimal treatment strategies for HIV infection within and between hosts. <i>Mathematical Biosciences</i> , 2019 , 309, 107-117	3.9	9
45	Optimizing distribution of pandemic influenza antiviral drugs. <i>Emerging Infectious Diseases</i> , 2015 , 21, 251-8	10.2	9
44	Transmission of infectious diseases en route to habitat hotspots. <i>PLoS ONE</i> , 2012 , 7, e31290	3.7	9
43	Impact of imitation processes on the effectiveness of ring vaccination. <i>Bulletin of Mathematical Biology</i> , 2011 , 73, 2748-72	2.1	9
42	Mathematical Approaches to Infectious Disease Prediction and Control 2010 , 1-25		9
41	CDC Grand Rounds: Modeling and Public Health Decision-Making. <i>Morbidity and Mortality Weekly Report</i> , 2016 , 65, 1374-1377	31.7	9
40	The Experience of 2 Independent Schools With In-Person Learning During the COVID-19 Pandemic. <i>Journal of School Health</i> , 2021 , 91, 347-355	2.1	9

39	Early prediction of antigenic transitions for influenza A/H3N2. <i>PLoS Computational Biology</i> , 2020 , 16, e1007683	5	8
38	Selecting pharmacies for COVID-19 testing to ensure access. <i>Health Care Management Science</i> , 2021 , 24, 330-338	4	8
37	Conscientious vaccination exemptions in kindergarten to eighth-grade children across Texas schools from 2012 to 2018: A regression analysis. <i>PLoS Medicine</i> , 2020 , 17, e1003049	11.6	7
36	Early antiretroviral therapy and potent second-line drugs could decrease HIV incidence of drug resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	7
35	Early Real-Time Estimation of the Basic Reproduction Number of Emerging Infectious Diseases. <i>Physical Review X</i> , 2012 , 2,	9.1	7
34	Effects of COVID-19 Vaccination Timing and Risk Prioritization on Mortality Rates, United States. <i>Emerging Infectious Diseases</i> , 2021 , 27, 1976-1979	10.2	7
33	Downgrading disease transmission risk estimates using terminal importations. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007395	4.8	6
32	The impacts of COVID-19 vaccine timing, number of doses, and risk prioritization on mortality in the US 2021 ,		6
31	The shifting demographic landscape of influenza. <i>PLOS Currents</i> , 2009 , 1, RRN1047		5
30	Proactive social distancing mitigates COVID-19 outbreaks within a month across 58 mainland China cities 2020 ,		5
29	COVID-19: How to Relax Social Distancing If You Must		5
28	International risk of SARS-CoV-2 Omicron variant importations originating in South Africa. 2021 ,		5
27	Evaluating Ebola vaccine trials: insights from simulation. <i>Lancet Infectious Diseases</i> , 2015 , 15, 1134	25.5	4
26	ON THE ABUNDANCE OF POLYPLOIDS IN FLOWERING PLANTS. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1198	3.8	4
25	Data Blindspots: High-Tech Disease Surveillance Misses the Poor. <i>Online Journal of Public Health Informatics</i> , 2016 , 8,	0.3	4
24	Hundreds of severe pediatric COVID-19 infections in Wuhan prior to the lockdown 2020 ,		4
23	The unseen and pervasive threat of COVID-19 throughout the US		4
22	The Experience of Two Independent Schools with In-Person Learning During the COVID-19 Pandemic		4

21	International risk of the new variant COVID-19 importations originating in the United Kingdom 2021,		4
20	Uncertainty analysis of species distribution models. <i>PLoS ONE</i> , 2019 , 14, e0214190	3.7	3
19	Constraints on Variation from Genotype through Phenotype to Fitness 2005 , 87-111		3
18	Real-time pandemic surveillance using hospital admissions and mobility data.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	3
17	Impact of Social Distancing Measures on COVID-19 Healthcare Demand in Central Texas		3
16	Selecting pharmacies for COVID-19 testing to ensure access 2020,		3
15	Design of COVID-19 staged alert systems to ensure healthcare capacity with minimal closures. <i>Nature Communications</i> , 2021 , 12, 3767	17.4	3
14	Social groups constrain the spatiotemporal dynamics of wild sifaka gut microbiomes. <i>Molecular Ecology</i> , 2021 , 30, 6759-6775	5.7	3
13	Location based surveillance for early detection of contagious outbreaks 2015,		2
12	Quantifying ethical tradeoffs for vaccine efficacy trials during severe epidemics		2
11	Downgrading disease transmission risk estimates using terminal importations		2
10	Estimation of single-year-of-age counts of live births, fetal losses, abortions, and pregnant women for counties of Texas. <i>BMC Research Notes</i> , 2017 , 10, 178	2.3	1
9	Network perspectives on infectious disease dynamics. <i>Interdisciplinary Perspectives on Infectious Diseases</i> , 2011 , 2011, 146765	1.7	1
8	Cost-effective proactive testing strategies during COVID-19 mass vaccination: A modelling study.. <i>The Lancet Regional Health Americas</i> , 2022 , 8, 100182		1
7	The COVID-19 herd immunity threshold is not low: A re-analysis of European data from spring of 2020		1
6	Cocooning is essential to relaxing social distancing 2020,		1
5	Projecting COVID-19 isolation bed requirements for people experiencing homelessness. <i>PLoS ONE</i> , 2021 , 16, e0251153	3.7	1
4	Expanding Access to COVID-19 Tests through US Postal Service Facilities. <i>Medical Decision Making</i> , 2021 , 41, 3-8	2.5	0

3	Projecting the Combined Health Care Burden of Seasonal Influenza and COVID-19 in the 2020-2021 Season.. <i>MDM Policy and Practice</i> , 2022 , 7, 23814683221084631	1.5	0
2	Couple serostatus patterns in sub-Saharan Africa illuminate the relative roles of transmission rates and sexual network characteristics in HIV epidemiology. <i>Scientific Reports</i> , 2018 , 8, 6675	4.9	
1	Early COVID-19 pandemic modeling: Three compartmental model case studies from Texas, USA.. <i>Computing in Science and Engineering</i> , 2021 , 23, 25-34	1.5	