

Lauren Ancel Meyers

List of Publications by Year in Descending Order

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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	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
145	Cost-effective proactive testing strategies during COVID-19 mass vaccination: A modelling study.. <i>The Lancet Regional Health Americas</i> , 2022 , 8, 100182		1
144	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
143	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
142	The impact of vaccination on COVID-19 outbreaks in the United States 2021 ,		28
141	Infectious diseases and social distancing in nature. <i>Science</i> , 2021 , 371,	33.3	37
140	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
139	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
138	Projecting COVID-19 isolation bed requirements for people experiencing homelessness. <i>PLoS ONE</i> , 2021 , 16, e0251153	3.7	1
137	Design of COVID-19 staged alert systems to ensure healthcare capacity with minimal closures. <i>Nature Communications</i> , 2021 , 12, 3767	17.4	3
136	Expanding Access to COVID-19 Tests through US Postal Service Facilities. <i>Medical Decision Making</i> , 2021 , 41, 3-8	2.5	0
135	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	
134	The impacts of COVID-19 vaccine timing, number of doses, and risk prioritization on mortality in the US 2021 ,		6
133	Selecting pharmacies for COVID-19 testing to ensure access. <i>Health Care Management Science</i> , 2021 , 24, 330-338	4	8
132	The impact of vaccination on COVID-19 outbreaks in the United States. <i>Clinical Infectious Diseases</i> , 2021 ,	11.6	109
131	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
130	Social groups constrain the spatiotemporal dynamics of wild sifaka gut microbiomes. <i>Molecular Ecology</i> , 2021 , 30, 6759-6775	5.7	3

129	International risk of the new variant COVID-19 importations originating in the United Kingdom 2021,		4
128	International risk of SARS-CoV-2 Omicron variant importations originating in South Africa. 2021,		5
127	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
126	Modeling mitigation of influenza epidemics by baloxavir. <i>Nature Communications</i> , 2020 , 11, 2750	17.4	15
125	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
124	Socioeconomic bias in influenza surveillance. <i>PLoS Computational Biology</i> , 2020 , 16, e1007941	5	12
123	Early prediction of antigenic transitions for influenza A/H3N2. <i>PLoS Computational Biology</i> , 2020 , 16, e1007683	5	8
122	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
121	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
120	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
119	Serial Interval of COVID-19 among Publicly Reported Confirmed Cases. <i>Emerging Infectious Diseases</i> , 2020 , 26, 1341-1343	10.2	421
118	The serial interval of COVID-19 from publicly reported confirmed cases 2020,		56
117	Hundreds of severe pediatric COVID-19 infections in Wuhan prior to the lockdown 2020,		4
116	Proactive social distancing mitigates COVID-19 outbreaks within a month across 58 mainland China cities 2020,		5
115	COVID-19 serial interval estimates based on confirmed cases in public reports from 86 Chinese cities 2020,		10
114	Cocooning is essential to relaxing social distancing 2020,		1
113	Selecting pharmacies for COVID-19 testing to ensure access 2020,		3
112	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

111	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
110	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
109	Effects of Proactive Social Distancing on COVID-19 Outbreaks in 58 Cities, China. <i>Emerging Infectious Diseases</i> , 2020 , 26,	10.2	27
108	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
107	Uncertainty analysis of species distribution models. <i>PLoS ONE</i> , 2019 , 14, e0214190	3.7	3
106	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
105	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
104	Downgrading disease transmission risk estimates using terminal importations. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007395	4.8	6
103	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
102	Local risk perception enhances epidemic control. <i>PLoS ONE</i> , 2019 , 14, e0225576	3.7	16
101	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
100	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	
99	Optimal multi-source forecasting of seasonal influenza. <i>PLoS Computational Biology</i> , 2018 , 14, e1006236		10
98	Assessing real-time Zika risk in the United States. <i>BMC Infectious Diseases</i> , 2017 , 17, 284	4	29
97	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
96	Stockpiling Ventilators for Influenza Pandemics. <i>Emerging Infectious Diseases</i> , 2017 , 23, 914-921	10.2	38
95	Design Strategies for Efficient Arbovirus Surveillance. <i>Emerging Infectious Diseases</i> , 2017 , 23, 642-644	10.2	11
94	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

93	Seasonality in risk of pandemic influenza emergence. <i>PLoS Computational Biology</i> , 2017 , 13, e1005749	5	22
92	Equalizing access to pandemic influenza vaccines through optimal allocation to public health distribution points. <i>PLoS ONE</i> , 2017 , 12, e0182720	3.7	14
91	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
90	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
89	Disease Surveillance on Complex Social Networks. <i>PLoS Computational Biology</i> , 2016 , 12, e1004928	5	33
88	CDC Grand Rounds: Modeling and Public Health Decision-Making. <i>Morbidity and Mortality Weekly Report</i> , 2016 , 65, 1374-1377	31.7	9
87	Data Blindspots: High-Tech Disease Surveillance Misses the Poor. <i>Online Journal of Public Health Informatics</i> , 2016 , 8,	0.3	4
86	Efficacy and optimization of palivizumab injection regimens against respiratory syncytial virus infection. <i>JAMA Pediatrics</i> , 2015 , 169, 341-8	8.3	31
85	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
84	Optimizing distribution of pandemic influenza antiviral drugs. <i>Emerging Infectious Diseases</i> , 2015 , 21, 251-8	10.2	9
83	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
82	Evaluating Ebola vaccine trials: insights from simulation. <i>Lancet Infectious Diseases, The</i> , 2015 , 15, 1134	25.5	4
81	Enhancing disease surveillance with novel data streams: challenges and opportunities. <i>EPJ Data Science</i> , 2015 , 4,	3.4	96
80	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
79	Harnessing case isolation and ring vaccination to control Ebola. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0003794	4.8	27
78	Statistical power and validity of Ebola vaccine trials in Sierra Leone: a simulation study of trial design and analysis. <i>Lancet Infectious Diseases, The</i> , 2015 , 15, 703-10	25.5	49
77	Location based surveillance for early detection of contagious outbreaks 2015 ,		2
76	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

75	Ebola control: effect of asymptomatic infection and acquired immunity. <i>Lancet, The</i> , 2014 , 384, 1499-500	4.0	63
74	Polyploid formation shapes flowering plant diversity. <i>American Naturalist</i> , 2014 , 184, 456-65	3.7	38
73	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
72	Probabilistic uncertainty analysis of epidemiological modeling to guide public health intervention policy. <i>Epidemics</i> , 2014 , 6, 37-45	5.1	24
71	Cost-effectiveness of canine vaccination to prevent human rabies in rural Tanzania. <i>Annals of Internal Medicine</i> , 2014 , 160, 91-100	8	59
70	Ebola virus vaccine trials: the ethical mandate for a therapeutic safety net. <i>BMJ, The</i> , 2014 , 349, g7518	5.9	10
69	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
68	Dengue dynamics and vaccine cost-effectiveness in Brazil. <i>Vaccine</i> , 2013 , 31, 3957-61	4.1	34
67	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
66	Optimal targeting of seasonal influenza vaccination toward younger ages is robust to parameter uncertainty. <i>Vaccine</i> , 2013 , 31, 3079-89	4.1	10
65	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
64	Epidemiological effects of group size variation in social species. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130206	4.1	19
63	Geographic prioritization of distributing pandemic influenza vaccines. <i>Health Care Management Science</i> , 2012 , 15, 175-87	4	32
62	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
61	Early Real-Time Estimation of the Basic Reproduction Number of Emerging Infectious Diseases. <i>Physical Review X</i> , 2012 , 2,	9.1	7
60	The impact of past epidemics on future disease dynamics. <i>Journal of Theoretical Biology</i> , 2012 , 309, 176-84	4.4	25
59	EpiFire: An open source C++ library and application for contact network epidemiology. <i>BMC Bioinformatics</i> , 2012 , 13, 76	3.6	20
58	Simulating school closure policies for cost effective pandemic decision making. <i>BMC Public Health</i> , 2012 , 12, 449	4.1	25

57	Transmission of infectious diseases en route to habitat hotspots. <i>PLoS ONE</i> , 2012 , 7, e31290	3.7	9
56	Controlling antimicrobial resistance through targeted, vaccine-induced replacement of strains. <i>PLoS ONE</i> , 2012 , 7, e50688	3.7	16
55	The impact of imitation on vaccination behavior in social contact networks. <i>PLoS Computational Biology</i> , 2012 , 8, e1002469	5	77
54	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
53	Optimizing provider recruitment for influenza surveillance networks. <i>PLoS Computational Biology</i> , 2012 , 8, e1002472	5	33
52	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
51	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
50	Impact of imitation processes on the effectiveness of ring vaccination. <i>Bulletin of Mathematical Biology</i> , 2011 , 73, 2748-72	2.1	9
49	Optimal H1N1 vaccination strategies based on self-interest versus group interest. <i>BMC Public Health</i> , 2011 , 11 Suppl 1, S4	4.1	28
48	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
47	Network perspectives on infectious disease dynamics. <i>Interdisciplinary Perspectives on Infectious Diseases</i> , 2011 , 2011, 146765	1.7	1
46	Effects of heterogeneous and clustered contact patterns on infectious disease dynamics. <i>PLoS Computational Biology</i> , 2011 , 7, e1002042	5	119
45	Erratic flu vaccination emerges from short-sighted behavior in contact networks. <i>PLoS Computational Biology</i> , 2011 , 7, e1001062	5	57
44	The dynamic nature of contact networks in infectious disease epidemiology. <i>Journal of Biological Dynamics</i> , 2010 , 4, 478-89	2.4	136
43	Mathematical Approaches to Infectious Disease Prediction and Control 2010 , 1-25		9
42	Epidemiological bridging by injection drug use drives an early HIV epidemic. <i>Epidemics</i> , 2010 , 2, 155-164	5.1	23
41	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
40	The shifting demographic landscape of pandemic influenza. <i>PLoS ONE</i> , 2010 , 5, e9360	3.7	66

39	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
38	Exploring biological network structure with clustered random networks. <i>BMC Bioinformatics</i> , 2009 , 10, 405	3.6	65
37	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
36	Epidemic thresholds in dynamic contact networks. <i>Journal of the Royal Society Interface</i> , 2009 , 6, 233-41	4.1	146
35	The shifting demographic landscape of influenza. <i>PLOS Currents</i> , 2009 , 1, RRN1047		5
34	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
33	Optimizing allocation for a delayed influenza vaccination campaign. <i>PLOS Currents</i> , 2009 , 1, RRN1134		34
32	The ascent of the abundant: how mutational networks constrain evolution. <i>PLoS Computational Biology</i> , 2008 , 4, e1000110	5	71
31	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
30	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
29	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
28	Predicting epidemics on directed contact networks. <i>Journal of Theoretical Biology</i> , 2006 , 240, 400-18	2.3	204
27	From bad to good: Fitness reversals and the ascent of deleterious mutations. <i>PLoS Computational Biology</i> , 2006 , 2, e141	5	24
26	A comparative analysis of influenza vaccination programs. <i>PLoS Medicine</i> , 2006 , 3, e387	11.6	107
25	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
24	ON THE ABUNDANCE OF POLYPLOIDS IN FLOWERING PLANTS. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1198	3.8	4
23	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
22	ON THE ABUNDANCE OF POLYPLOIDS IN FLOWERING PLANTS. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1198-1206	3.8	133

21	On the abundance of polyploids in flowering plants. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1198-206	3.8	48
20	Constraints on Variation from Genotype through Phenotype to Fitness 2005 , 87-111		3
19	Network theory and SARS: predicting outbreak diversity. <i>Journal of Theoretical Biology</i> , 2005 , 232, 71-81	2.3	477
18	Modeling control strategies of respiratory pathogens. <i>Emerging Infectious Diseases</i> , 2005 , 11, 1249-56	10.2	71
17	Evolution of genetic potential. <i>PLoS Computational Biology</i> , 2005 , 1, 236-43	5	49
16	Quasispecies made simple. <i>PLoS Computational Biology</i> , 2005 , 1, e61	5	118
15	Distributions of beneficial fitness effects in RNA. <i>Genetics</i> , 2005 , 170, 1449-57	4	43
14	The robustness of naturally and artificially selected nucleic acid secondary structures. <i>Journal of Molecular Evolution</i> , 2004 , 58, 681-91	3.1	48
13	Applying network theory to epidemics: control measures for Mycoplasma pneumoniae outbreaks. <i>Emerging Infectious Diseases</i> , 2003 , 9, 204-10	10.2	150
12	Perspective: Evolution and detection of genetic robustness. <i>Evolution; International Journal of Organic Evolution</i> , 2003 , 57, 1959-72	3.8	444
11	Epidemiology, hypermutation, within-host evolution and the virulence of Neisseria meningitidis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 1667-77	4.4	48
10	PERSPECTIVE:EVOLUTION AND DETECTION OF GENETIC ROBUSTNESS. <i>Evolution; International Journal of Organic Evolution</i> , 2003 , 57, 1959	3.8	417
9	Fighting change with change: adaptive variation in an uncertain world. <i>Trends in Ecology and Evolution</i> , 2002 , 17, 551-557	10.9	267
8	The COVID-19 herd immunity threshold is not low: A re-analysis of European data from spring of 2020		1
7	Quantifying ethical tradeoffs for vaccine efficacy trials during severe epidemics		2
6	The unseen and pervasive threat of COVID-19 throughout the US		4
5	Projections for first-wave COVID-19 deaths across the US using social-distancing measures derived from mobile phones		33
4	Impact of Social Distancing Measures on COVID-19 Healthcare Demand in Central Texas		3

3	COVID-19: How to Relax Social Distancing If You Must	5
2	Downgrading disease transmission risk estimates using terminal importations	2
1	The Experience of Two Independent Schools with In-Person Learning During the COVID-19 Pandemic	4