Shweta Bansal

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3228835/publications.pdf

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61	4,529	186265	123424
papers	citations	28 h-index	61 g-index

98	98	98	5403
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	When individual behaviour matters: homogeneous and network models in epidemiology. Journal of the Royal Society Interface, 2007, 4, 879-891.	3.4	557
2	Modeling infectious disease dynamics in the complex landscape of global health. Science, 2015, 347, aaa4339.	12.6	492
3	Climate change increases cross-species viral transmission risk. Nature, 2022, 607, 555-562.	27.8	361
4	Mathematical models to characterize early epidemic growth: A review. Physics of Life Reviews, 2016, 18, 66-97.	2.8	297
5	Big Data for Infectious Disease Surveillance and Modeling. Journal of Infectious Diseases, 2016, 214, S375-S379.	4.0	195
6	Nine challenges in incorporating the dynamics of behaviour in infectious diseases models. Epidemics, 2015, 10, 21-25.	3.0	174
7	The dynamic nature of contact networks in infectious disease epidemiology. Journal of Biological Dynamics, 2010, 4, 478-489.	1.7	170
8	Eight challenges for network epidemic models. Epidemics, 2015, 10, 58-62.	3.0	147
9	Unraveling the disease consequences and mechanisms of modular structure in animal social networks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4165-4170.	7.1	142
10	Misconceptions about weather and seasonality must not misguide COVID-19 response. Nature Communications, 2020, 11, 4312.	12.8	124
11	A Comparative Analysis of Influenza Vaccination Programs. PLoS Medicine, 2006, 3, e387.	8.4	122
12	Network frailty and the geometry of herd immunity. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2743-2748.	2.6	105
13	Disease implications of animal social network structure: A synthesis across social systems. Journal of Animal Ecology, 2018, 87, 546-558.	2.8	96
14	Global estimates of mammalian viral diversity accounting for host sharing. Nature Ecology and Evolution, 2019, 3, 1070-1075.	7.8	94
15	Exploring biological network structure with clustered random networks. BMC Bioinformatics, 2009, 10, 405.	2.6	77
16	The Shifting Demographic Landscape of Pandemic Influenza. PLoS ONE, 2010, 5, e9360.	2.5	76
17	Six challenges in measuring contact networks for use in modelling. Epidemics, 2015, 10, 72-77.	3.0	74
18	Socioeconomic Disparities in Social Distancing During the COVID-19 Pandemic in the United States: Observational Study. Journal of Medical Internet Research, 2021, 23, e24591.	4.3	69

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19	Unifying spatial and social network analysis in disease ecology. Journal of Animal Ecology, 2021, 90, 45-61.	2.8	68
20	Exploring community structure in biological networks with random graphs. BMC Bioinformatics, 2014, 15, 220.	2.6	64
21	Mind the Scales: Harnessing Spatial Big Data for Infectious Disease Surveillance and Inference. Journal of Infectious Diseases, 2016, 214, S409-S413.	4.0	59
22	Disease dynamics during wildlife translocations: disruptions to the host population and potential consequences for transmission in desert tortoise contact networks. Animal Conservation, 2014, 17, 27-39.	2.9	51
23	Statistical inference to advance network models in epidemiology. Epidemics, 2011, 3, 38-45.	3.0	46
24	A multi-species repository of social networks. Scientific Data, 2019, 6, 44.	5.3	44
25	Host contact and shedding patterns clarify variation in pathogen exposure and transmission in threatened tortoise Gopherus agassizii: implications for disease modelling and management. Journal of Animal Ecology, 2016, 85, 829-842.	2.8	43
26	Social, spatial and temporal organization in a complex insect society. Scientific Reports, 2015, 5, 13393.	3.3	41
27	Contact, travel, and transmission: The impact of winter holidays on influenza dynamics in the United States. Journal of Infectious Diseases, 2017, 215, jiw642.	4.0	37
28	Fast Community Detection for Dynamic Complex Networks. Communications in Computer and Information Science, 2011, , 196-207.	0.5	35
29	The missing season: The impacts of the COVID-19 pandemic on influenza. Vaccine, 2021, 39, 3645-3648.	3.8	35
30	The impact of past epidemics on future disease dynamics. Journal of Theoretical Biology, 2012, 309, 176-184.	1.7	33
31	Dataâ€Driven Models of Footâ€andâ€Mouth Disease Dynamics: AÂReview. Transboundary and Emerging Diseases, 2017, 64, 716-728.	3.0	31
32	Deploying digital health data to optimize influenza surveillance at national and local scales. PLoS Computational Biology, 2018, 14, e1006020.	3.2	29
33	Inferring social structure and its drivers from refuge use in the desert tortoise, a relatively solitary species. Behavioral Ecology and Sociobiology, 2016, 70, 1277-1289.	1.4	28
34	Highlighting socio-economic constraints on mobility reductions during COVID-19 restrictions in France can inform effective and equitable pandemic response. Journal of Travel Medicine, 2021, 28, .	3.0	27
35	Health inequities in influenza transmission and surveillance. PLoS Computational Biology, 2021, 17, e1008642.	3.2	21
36	Addressing the socioeconomic divide in computational modeling for infectious diseases. Nature Communications, 2022, 13, .	12.8	20

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37	Inferring population-level contact heterogeneity from common epidemic data. Journal of the Royal Society Interface, 2013, 10, 20120578.	3.4	19
38	Fineâ€scale spatial patterns of wildlife disease are common and understudied. Functional Ecology, 2022, 36, 214-225.	3.6	19
39	Sex, synchrony, and skin contact: integrating multiple behaviors to assess pathogen transmission risk. Behavioral Ecology, 2020, 31, 651-660.	2.2	18
40	From flames to inflammation: how wildfires affect patterns of wildlife disease. Fire Ecology, 2021, 17, .	3.0	18
41	Characterizing the Spatiotemporal Heterogeneity of the COVID-19 Vaccination Landscape. American Journal of Epidemiology, 2022, 191, 1792-1802.	3.4	18
42	Mixed Methods Pilot Study of Sharing Behaviors among Waterpipe Smokers of Rural Lao PDR: Implications for Infectious Disease Transmission. International Journal of Environmental Research and Public Health, 2013, 10, 2120-2132.	2.6	16
43	Epidemiological investigation of tattoo-like skin lesions among bottlenose dolphins in Shark Bay, Australia. Science of the Total Environment, 2018, 630, 774-780.	8.0	16
44	Spatiotemporal Patterns and Diffusion of the 1918 Influenza Pandemic in British India. American Journal of Epidemiology, 2018, 187, 2550-2560.	3.4	16
45	The reachability of contagion in temporal contact networks: how disease latency can exploit the rhythm of human behavior. BMC Infectious Diseases, 2018, 18, 219.	2.9	16
46	Detecting signals of seasonal influenza severity through age dynamics. BMC Infectious Diseases, 2015, 15, 587.	2.9	15
47	Negative density-dependent parasitism in a group-living carnivore. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20202655.	2.6	14
48	Using heterogeneity in the population structure of U.S. swine farms to compare transmission models for porcine epidemic diarrhoea. Scientific Reports, 2016, 6, 22248.	3.3	12
49	Getting Personal: How Childhood Vaccination Policies Shape the Landscape of Vaccine Exemptions. Open Forum Infectious Diseases, 2020, 7, ofaa088.	0.9	12
50	Ant colonies maintain social homeostasis in the face of decreased density. ELife, 2019, 8, .	6.0	12
51	Sociality and tattoo skin disease among bottlenose dolphins in Shark Bay, Australia. Behavioral Ecology, 2020, 31, 459-466.	2.2	10
52	Revealing mechanisms of infectious disease spread through empirical contact networks. PLoS Computational Biology, 2021, 17, e1009604.	3.2	9
53	Comparative Assessment of Some Target Detection Algorithms for Hyperspectral Images. Defence Science Journal, 2013, 63, 53-62.	0.8	8
54	Assessing the use of antiviral treatment to control influenza. Epidemiology and Infection, 2015, 143, 1621-1631.	2.1	7

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55	The landscape of childhood vaccine exemptions in the United States. Scientific Data, 2020, 7, 401.	5.3	6
56	Social fluidity mobilizes contagion in human and animal populations. ELife, 2021, 10, .	6.0	6
57	The Shifting Demographic Landscape of Influenza. PLOS Currents, 2009, 1, RRN1047.	1.4	6
58	Increasing herd immunity with influenza revaccination. Epidemiology and Infection, 2016, 144, 1267-1277.	2.1	5
59	Spatial aggregation choice in the era of digital and administrative surveillance data. , 2022, 1, e0000039.		4
60	Dissecting recurrent waves of pertussis across the boroughs of London. PLoS Computational Biology, 2022, 18, e1009898.	3.2	3
61	Early sub-exponential epidemic growth: Simple models, nonlinear incidence rates, and additional mechanisms. Physics of Life Reviews, 2016, 18, 114-117.	2.8	2