Nina H Fefferman

List of Publications by Year
in descending order

101	2,534	304701	233409
papers	citations	22 h-index	45 g-index

111	111	111	3484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influenza Seasonality: Underlying Causes and Modeling Theories. Journal of Virology, 2007, 81, 5429-5436.	3.4	451
2	Genetic, Individual, and Group Facilitation of Disease Resistance in Insect Societies. Annual Review of Entomology, 2009, 54, 405-423.	11.8	358
3	Climate, environmental and socio-economic change: weighing up the balance in vector-borne disease transmission. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130551.	4.0	215
4	The untapped potential of virtual game worlds to shed light on real world epidemics. Lancet Infectious Diseases, The, 2007, 7, 625-629.	9.1	120
5	Linking models of human behaviour and climate alters projected climate change. Nature Climate Change, 2018, 8, 79-84.	18.8	115
6	How disease models in static networks can fail to approximate disease in dynamic networks. Physical Review E, 2007, 76, 031919.	2.1	82
7	Disease prevention and resistance in social insects: modeling the survival consequences of immunity, hygienic behavior, and colony organization. Behavioral Ecology and Sociobiology, 2007, 61, 565-577.	1.4	65
8	Dangers of vaccine refusal near the herd immunity threshold: a modelling study. Lancet Infectious Diseases, The, 2015, 15, 922-926.	9.1	53
9	A case study of bats and whiteâ€nose syndrome demonstrating how to model population viability with evolutionary effects. Conservation Biology, 2015, 29, 1176-1185.	4.7	48
10	Can physiological stress alter population persistence? A model with conservation implications. , 2013, 1, cot012-cot012.		41
11	Vital rate sensitivity analysis as a tool for assessing management actions for the desert tortoise. Biological Conservation, 2009, 142, 2710-2717.	4.1	39
12	Chirosurveillance: The use of native bats to detect invasive agricultural pests. PLoS ONE, 2017, 12, e0173321.	2.5	35
13	Confidentiality and Confidence: Is Data Aggregation a Means to Achieve Both?. Journal of Public Health Policy, 2005, 26, 430-449.	2.0	31
14	The importance of being urgent: The impact of surveillance target and scale on mosquito-borne disease control. Epidemics, 2018, 23, 55-63.	3.0	31
15	A Vital Rate Sensitivity Analysis for Nonstable Age Distributions and Short-Term Planning. Journal of Wildlife Management, 2006, 70, 649-656.	1.8	30
16	Deviations in influenza seasonality: odd coincidence or obscure consequence?. Clinical Microbiology and Infection, 2012, 18, 955-962.	6.0	30
17	A Mathematical Model to Evaluate the Routine Use of Fecal Microbiota Transplantation to Prevent Incident and Recurrent Clostridium difficile Infection. Infection Control and Hospital Epidemiology, 2014, 35, 18-27.	1.8	30
18	Evidence that implicit assumptions of â€˜no evolutionâ€™ of disease vectors in changing environments can be violated on a rapid timescale. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140136.	4.0	30

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19	Emergence of antibiotic resistance in immunocompromised host populations: A case study of emerging antibiotic resistant tuberculosis in AIDS patients. PLoS ONE, 2019, 14, e0212969.	2.5	30
20	Strategic Mortgage Default in the Context of a Social Network: An Epidemiological Approach. Journal of Real Estate Research, 2013, 35, 445-476.	0.7	30
21	Simple and efficient self-healing strategy for damaged complex networks. Physical Review E, 2015, 92, 052806.	2.1	29
22	A guide to choosing and implementing reference models for social network analysis. Biological Reviews, 2021, 96, 2716-2734.	10.4	29
23	Social organization patterns can lower disease risk without associated disease avoidance or immunity. Ecological Complexity, 2012, 12, 34-42.	2.9	27
24	Phenotypic response of foraminifera to episodes of global environmental change. , 2000, , 51-78.		25
25	Hive oversight for network intrusion early warning using DIAMoND: a bee-inspired method for fully distributed cyber defense. , 2016, 54, 60-67.		25
26	Relative Risk for Ehrlichiosis and Lyme Disease in an Area Where Vectors for Both Are Sympatric, New Jersey, USA. Emerging Infectious Diseases, 2017, 23, .	4.3	21
27	The Earth has humans, so why donâ€™t our climate models?. Climatic Change, 2020, 163, 181-188.	3.6	21
28	Genomic signatures of selection in bats surviving whiteâ€nose syndrome. Molecular Ecology, 2021, 30, 5643-5657.	3.9	20
29	Higher-Order Interactions: Understanding the knowledge capacity of social groups using simplicial sets. Environmental Epigenetics, 2015, 61, 114-127.	1.8	18
30	A modeling approach to swarming in honey bees (Apis mellifera). Insectes Sociaux, 2006, 53, 37-45.	1.2	17
31	Innovation in observation: a vision for early outbreak detection. Emerging Health Threats Journal, 2010, 3, 7103.	3.0	17
32	Disproportional effects in populations of concern for pandemic influenza: insights from seasonal epidemics in Wisconsin, 1967â€“2004. Influenza and Other Respiratory Viruses, 2010, 4, 205-212.	3.4	16
33	Application of network methods for understanding evolutionary dynamics in discrete habitats. Molecular Ecology, 2017, 26, 2850-2863.	3.9	15
34	Human movement, cooperation and the effectiveness of coordinated vector control strategies. Journal of the Royal Society Interface, 2017, 14, 20170336.	3.4	15
35	The role of social structure and dynamics in the maintenance of endemic disease. Behavioral Ecology and Sociobiology, 2021, 75, 122.	1.4	15
36	Systems Approach to Studying Animal Sociality: Individual Position versus Group Organization in Dynamic Social Network Models. PLoS ONE, 2010, 5, e15789.	2.5	14

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37	The Effect of Disease-Induced Mortality on Structural Network Properties. PLoS ONE, 2015, 10, e0136704.	2.5	12
38	Contrasting the value of targeted versus area-wide mosquito control scenarios to limit arbovirus transmission with human mobility patterns based on different tropical urban population centers. PLoS Neglected Tropical Diseases, 2019, 13, e0007479.	3.0	12
39	Combinatorial decomposition of an outbreak signature. Mathematical Biosciences, 2006, 202, 269-287.	1.9	10
40	Pandemic Preparedness Strategies for School Systems: Is Closure Really the Only Way?. Annales Zoologici Fennici, 2008, 45, 449-458.	0.6	10
41	How to effectively manage invasive predators to protect their native prey. Biological Conservation, 2013, 165, 146-153.	4.1	10
42	How disease constrains the evolution of social systems. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201284.	2.6	10
43	Mechanism-based Clustering of Genome-wide RNA Levels: Roles of Transcription and Transcript-Degradation Rates. , 2009, , 237-255.		10
44	Designing for Massive Engagement in a Tween Community. , 2017, , .		10
45	Extreme events, energy security and equality through micro- and macro-levels: Concepts, challenges and methods. Energy Research and Social Science, 2022, 85, 102401.	6.4	10
46	A Novel Tool for Making Policy Recommendations Based on PVA: Helping Theory Become Practice. Conservation Letters, 2015, 8, 190-198.	5.7	9
47	Coordination among neighbors improves the efficacy of Zika control despite economic costs. PLoS Neglected Tropical Diseases, 2020, 14, e0007870.	3.0	9
48	A generic arboviral model framework for exploring trade-offs between vector control and environmental concerns. Journal of Theoretical Biology, 2020, 490, 110161.	1.7	9
49	Revealing effective classifiers through network comparison. Europhysics Letters, 2014, 108, 38001.	2.0	8
50	Virtual Epidemics as Learning Laboratories in Virtual Worlds. Journal of Virtual Worlds Research, 2010, 3, .	0.7	7
51	The impact of personality on the success of prospecting behavior in changing landscapes. Environmental Epigenetics, 2015, 61, 557-568.	1.8	7
52	Understanding hermaphrodite species through game theory. Journal of Mathematical Biology, 2015, 71, 1505-1524.	1.9	7
53	Success of Wildlife Disease Treatment Depends on Host Immune Response. Frontiers in Ecology and Evolution, 2017, 5, .	2.2	7
54	(Meta)population dynamics determine effective spatial distributions of mosquitoâ€borne disease control. Ecological Applications, 2019, 29, e01856.	3.8	7

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55	Choices in networks: a research framework. Marketing Letters, 2020, 31, 349-359.	2.9	7
56	Improving pandemic mitigation policies across communities through coupled dynamics of risk perception and infection. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210834.	2.6	7
57	Violating Social Norms when Choosing Friends: How Rule-Breakers Affect Social Networks. PLoS ONE, 2011, 6, e26652.	2.5	6
58	Patients as Patches: Ecology and Epidemiology in Healthcare Environments. Infection Control and Hospital Epidemiology, 2016, 37, 1507-1512.	1.8	6
59	Stopping Amplified DNS DDoS Attacks through Distributed Query Rate Sharing. , 2016, , .		6
60	Propinquity drives the emergence of network structure and density. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20360-20365.	7.1	6
61	The sensitivity of a honeybee colony to worker mortality depends on season and resource availability. BMC Evolutionary Biology, 2020, 20, 139.	3.2	6
62	How Emergent Social Patterns in Allogrooming Combat Parasitic Infections. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	6
63	The dynamics of disease mediated invasions by hosts with immune reproductive tradeoff. Scientific Reports, 2022, 12, 4108.	3.3	6
64	Evolutionary Significance of the Role of Family Units in a Broader Social System. Scientific Reports, 2015, 4, 3608.	3.3	5
65	Evaluating the impacts of fishing on sex-changing fish: a game-theoretic approach. ICES Journal of Marine Science, 2017, 74, 652-659.	2.5	5
66	Plagues and people. , 2017, , .		5
67	How Life History Shapes Optimal Patterns of Senescence: Implications from Individuals to Societies. American Naturalist, 2018, 191, 756-766.	2.1	5
68	Impact of chemorophylaxis policy for AIDS-immunocompromised patients on emergence of bacterial resistance. PLoS ONE, 2020, 15, e0225861.	2.5	5
69	Observations and conversations: how communities learn about infection risk can impact the success of non-pharmaceutical interventions against epidemics. BMC Public Health, 2022, 22, 13.	2.9	5
70	How Drivers of Seasonality in Respiratory Infections May Impact Vaccine Strategy: A Case Study in How Coronavirus Disease 2019 (COVID-19) May Help Us Solve One of Influenzaâ€™s Biggest Challenges. Clinical Infectious Diseases, 2022, 75, S121-S129.	5.8	5
71	Extending the Role of Social Networks to Study Social Organization and Interaction Structure of Animal Groups. Annales Zoologici Fennici, 2011, 48, 365-370.	0.6	4
72	Anomaly detection through information sharing under different topologies. Eurasip Journal on Information Security, 2017, 2017, .	2.2	4

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73	High annual survival in infected wildlife populations may veil a persistent extinction risk from disease. Ecosphere, 2017, 8, e02001.	2.2	4
74	The impact of host metapopulation structure on short-term evolutionary rescue in the face of a novel pathogenic threat. Global Ecology and Conservation, 2020, 23, e01174.	2.1	4
75	Impact of Strain Competition on Bacterial Resistance in Immunocompromised Populations. Antibiotics, 2020, 9, 114.	3.7	4
76	How limitations in energy access, poverty, and socioeconomic disparities compromise health interventions for outbreaks in urban settings. IScience, 2021, 24, 103389.	4.1	4
77	How territoriality reduces disease transmission among social insect colonies. Behavioral Ecology and Sociobiology, 2021, 75, 164.	1.4	4
78	Diversity in valuing social contact and risk tolerance leading to the emergence of homophily in populations facing infectious threats. Physical Review E, 2022, 105, 044315.	2.1	4
79	DIAMoND: Distributed Intrusion/Anomaly Monitoring for Nonparametric Detection. , 2015, , .		3
80	How social learning shapes the efficacy of preventative health behaviors in an outbreak. PLoS ONE, 2022, 17, e0262505.	2.5	3
81	How Disease Risks Can Impact the Evolution of Social Behaviors and Emergent Population Organization. Association for Women in Mathematics Series, 2018, , 31-46.	0.4	2
82	The dynamics of evolutionary rescue from a novel pathogen threat in a host metapopulation. Scientific Reports, 2021, 11, 10932.	3.3	2
83	How public reaction to disease information across scales and the impacts of vector control methods influence disease prevalence and control efficacy. PLoS Computational Biology, 2021, 17, e1008762.	3.2	2
84	Strategic Default in the Context of a Social Network: An Epidemiological Approach. SSRN Electronic Journal, 0, , .	0.4	2
85	When do children avoid infection risks: Lessons for schools during the COVID-19 pandemic. IScience, 2022, 25, 103989.	4.1	2
86	A general structured model of a hermaphrodite population. Journal of Theoretical Biology, 2018, 449, 53-59.	1.7	1
87	A Case Study in Tailoring a Bio-Inspired Cyber-Security Algorithm: Designing Anomaly Detection for Multilayer Networks. , 2018, , .		1
88	Mathematical Model of the Role of Asymptomatic Infection in Outbreaks of Some Emerging Pathogens. Tropical Medicine and Infectious Disease, 2020, 5, 184.	2.3	1
89	How resource limitations and household economics mayÂcompromise efforts to safeguard children during outbreaks. BMC Public Health, 2020, 20, 270.	2.9	1
90	Further interest in virtual game worlds. Lancet Infectious Diseases, The, 2007, 7, 634.	9.1	0

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91	Biological Experimentationin silico. Annales Zoologici Fennici, 2008, 45, 367-368.	0.6	0
92	Impact of street crime on Boston Chinatown. Local Environment, 2010, 15, 481-491.	2.4	0
93	Coordination Between the Sexes Constrains the Optimization of Reproductive Timing in Honey Bee Colonies. Scientific Reports, 2017, 7, 2740.	3.3	0
94	Mathematical Analysis of the Impact of Social Structure on Ectoparasite Load in Allogrooming Populations. Association for Women in Mathematics Series, 2018, , 47-61.	0.4	0
95	Dynamic Ad Hoc Social Networks in Improvised Intelligence/Counter-Intelligence Exercises: A Department of Homeland Security Red-Team Blue-Team Live-Action Roleplay. Journal of Homeland Security and Emergency Management, 2020, 17, .	0.5	0
96	Balancing timeliness of reporting with increasing testing probability for epidemic data. Infectious Disease Modelling, 2022, 7, 106-116.	1.9	0
97	Coordination among neighbors improves the efficacy of Zika control despite economic costs. , 2020, 14, e0007870.		0
98	Coordination among neighbors improves the efficacy of Zika control despite economic costs. , 2020, 14, e0007870.		0
99	Coordination among neighbors improves the efficacy of Zika control despite economic costs. , 2020, 14, e0007870.		0
100	Coordination among neighbors improves the efficacy of Zika control despite economic costs. , 2020, 14, e0007870.		0
101	Seasonality in multi-host disease systems. Ecological Modelling, 2022, 470, 109973.	2.5	0