

# Jaline Gerardin

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

2,257  
citations

430874

18  
h-index

395702

33  
g-index

48  
all docs

48  
docs citations

48  
times ranked

3331  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling impact and cost-effectiveness of driving gene drives for malaria elimination in the Democratic Republic of the Congo. <i>Evolutionary Applications</i> , 2022, 15, 132-148.	3.1	5
2	Long-term effects of increased adoption of artemisinin combination therapies in Burkina Faso. <i>PLOS Global Public Health</i> , 2022, 2, e0000111.	1.6	13
3	Structural racism and COVID-19 response: higher risk of exposure drives disparate COVID-19 deaths among Black and Hispanic/Latinx residents of Illinois, USA. <i>BMC Public Health</i> , 2022, 22, 312.	2.9	104
4	Modeling robust COVID-19 intensive care unit occupancy thresholds for imposing mitigation to prevent exceeding capacities. <i>PLOS Global Public Health</i> , 2022, 2, e0000308.	1.6	7
5	SARS-CoV-2 Infection Among Pregnant People at Labor and Delivery and Changes in Infection Rates in the General Population: Lessons Learned From Illinois. <i>Public Health Reports</i> , 2022, , 003335492210918.	2.5	0
6	Mobility network models of COVID-19 explain inequities and inform reopening. <i>Nature</i> , 2021, 589, 82-87.	27.8	1,016
7	Identifying the measurements required to estimate rates of COVID-19 transmission, infection, and detection, using variational data assimilation. <i>Infectious Disease Modelling</i> , 2021, 6, 133-147.	1.9	9
8	Beyond national indicators: adapting the Demographic and Health Surveys™ sampling strategies and questions to better inform subnational malaria intervention policy. <i>Malaria Journal</i> , 2021, 20, 122.	2.3	26
9	Geographic and demographic heterogeneity of SARS-CoV-2 diagnostic testing in Illinois, USA, March to December 2020. <i>BMC Public Health</i> , 2021, 21, 1105.	2.9	19
10	Mechanistic within-host models of the asexual <i>Plasmodium falciparum</i> infection: a review and analytical assessment. <i>Malaria Journal</i> , 2021, 20, 309.	2.3	7
11	Supporting COVID-19 Policy Response with Large-scale Mobility-based Modeling. , 2021, , .		16
12	Vector genetics, insecticide resistance and gene drives: An agent-based modeling approach to evaluate malaria transmission and elimination. <i>PLoS Computational Biology</i> , 2020, 16, e1008121.	3.2	15
13	The Design Principles of Biochemical Timers: Circuits that Discriminate between Transient and Sustained Stimulation. <i>Cell Systems</i> , 2019, 9, 297-308.e2.	6.2	27
14	Reducing malaria burden and accelerating elimination with long-lasting systemic insecticides: a modelling study of three potential use cases. <i>Malaria Journal</i> , 2019, 18, 307.	2.3	11
15	Investigating the impact of enhanced community case management and monthly screening and treatment on the transmissibility of malaria infections in Burkina Faso: study protocol for a cluster-randomised trial. <i>BMJ Open</i> , 2019, 9, e030598.	1.9	10
16	Seasonality and heterogeneity of malaria transmission determine success of interventions in high-endemic settings: a modeling study. <i>BMC Infectious Diseases</i> , 2018, 18, 413.	2.9	39
17	Implementation and applications of EMOD, an individual-based multi-disease modeling platform. <i>Pathogens and Disease</i> , 2018, 76, .	2.0	60
18	Impact of mass drug administration campaigns depends on interaction with seasonal human movement. <i>International Health</i> , 2018, 10, 252-257.	2.0	9

#	ARTICLE	IF	CITATIONS
19	Role of mass drug administration in elimination of Plasmodium falciparum malaria: a consensus modelling study. <i>The Lancet Global Health</i> , 2017, 5, e680-e687.	6.3	102
20	Model citizen – Authors' reply. <i>The Lancet Global Health</i> , 2017, 5, e974.	6.3	1
21	Effectiveness of reactive case detection for malaria elimination in three archetypical transmission settings: a modelling study. <i>Malaria Journal</i> , 2017, 16, 248.	2.3	34
22	malERA: An updated research agenda for characterising the reservoir and measuring transmission in malaria elimination and eradication. <i>PLoS Medicine</i> , 2017, 14, e1002452.	8.4	70
23	Optimal Population-Level Infection Detection Strategies for Malaria Control and Elimination in a Spatial Model of Malaria Transmission. <i>PLoS Computational Biology</i> , 2016, 12, e1004707.	3.2	31
24	Dynamics of the Human Infectious Reservoir for Malaria Determined by Mosquito Feeding Assays and Ultrasensitive Malaria Diagnosis in Burkina Faso. <i>Journal of Infectious Diseases</i> , 2016, 213, 90-99.	4.0	138
25	Malaria Elimination Campaigns in the Lake Kariba Region of Zambia: A Spatial Dynamical Model. <i>PLoS Computational Biology</i> , 2016, 12, e1005192.	3.2	28
26	From puddles to planet: modeling approaches to vector-borne diseases at varying resolution and scale. <i>Current Opinion in Insect Science</i> , 2015, 10, 118-123.	4.4	4
27	Characterization of the infectious reservoir of malaria with an agent-based model calibrated to age-stratified parasite densities and infectiousness. <i>Malaria Journal</i> , 2015, 14, 231.	2.3	36
28	Mass campaigns with antimalarial drugs: a modelling comparison of artemether-lumefantrine and DHA-piperazine with and without primaquine as tools for malaria control and elimination. <i>BMC Infectious Diseases</i> , 2015, 15, 144.	2.9	52
29	Fun with maths: exploring implications of mathematical models for malaria eradication. <i>Malaria Journal</i> , 2014, 13, 486.	2.3	5
30	Designing Synthetic Regulatory Networks Capable of Self-Organizing Cell Polarization. <i>Cell</i> , 2012, 151, 320-332.	28.9	163
31	Robust protein protein interactions in crowded cellular environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14952-14957.	7.1	70
32	Dynamics of supercooled liquids: Universality of relaxation time near the crossover temperature. <i>Journal of Chemical Physics</i> , 2003, 119, 4473-4477.	3.0	10
33	<title>On mediums with negative phase velocity: a brief overview</title>. , 2002, , .		5
34	Negative index of refraction and distributed Bragg reflectors. <i>Microwave and Optical Technology Letters</i> , 2002, 34, 409-411.	1.4	35
35	Spectral response of Cantor multilayers made of materials with negative refractive index. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 301, 377-381.	2.1	21
36	Conditions for Voigt wave propagation in linear, homogeneous, dielectric mediums. <i>Optik</i> , 2001, 112, 493-495.	2.9	42