Jaline Gerardin

List of Publications by Year
in descending order

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	Mobility network models of COVID-19 explain inequities and inform reopening. Nature, 2021, 589, 82-87.	27.8	1,016
2	Designing Synthetic Regulatory Networks Capable of Self-Organizing Cell Polarization. Cell, 2012, 151, 320-332.	28.9	163
3	Dynamics of the Human Infectious Reservoir for Malaria Determined by Mosquito Feeding Assays and Ultrasensitive Malaria Diagnosis in Burkina Faso. Journal of Infectious Diseases, 2016, 213, 90-99.	4.0	138
4	Structural racism and COVID-19 response: higher risk of exposure drives disparate COVID-19 deaths among Black and Hispanic/Latinx residents of Illinois, USA. BMC Public Health, 2022, 22, 312.	2.9	104
5	Role of mass drug administration in elimination of Plasmodium falciparum malaria: a consensus modelling study. The Lancet Global Health, 2017, 5, e680-e687.	6.3	102
6	Robust protein protein interactions in crowded cellular environments. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14952-14957.	7.1	70
7	malERA: An updated research agenda for characterising the reservoir and measuring transmission in malaria elimination and eradication. PLoS Medicine, 2017, 14, e1002452.	8.4	70
8	Implementation and applications of EMOD, an individual-based multi-disease modeling platform. Pathogens and Disease, 2018, 76, .	2.0	60
9	Mass campaigns with antimalarial drugs: a modelling comparison of artemether-lumefantrine and DHA-piperaquine with and without primaquine as tools for malaria control and elimination. BMC Infectious Diseases, 2015, 15, 144.	2.9	52
10	Conditions for Voigt wave propagation in linear, homogeneous, dielectric mediums. Optik, 2001, 112, 493-495.	2.9	42
11	Seasonality and heterogeneity of malaria transmission determine success of interventions in high-endemic settings: a modeling study. BMC Infectious Diseases, 2018, 18, 413.	2.9	39
12	Characterization of the infectious reservoir of malaria with an agent-based model calibrated to age-stratified parasite densities and infectiousness. Malaria Journal, 2015, 14, 231.	2.3	36
13	Negative index of refraction and distributed Bragg reflectors. Microwave and Optical Technology Letters, 2002, 34, 409-411.	1.4	35
14	Effectiveness of reactive case detection for malaria elimination in three archetypical transmission settings: a modelling study. Malaria Journal, 2017, 16, 248.	2.3	34
15	Optimal Population-Level Infection Detection Strategies for Malaria Control and Elimination in a Spatial Model of Malaria Transmission. PLoS Computational Biology, 2016, 12, e1004707.	3.2	31
16	Malaria Elimination Campaigns in the Lake Kariba Region of Zambia: A Spatial Dynamical Model. PLoS Computational Biology, 2016, 12, e1005192.	3.2	28
17	The Design Principles of Biochemical Timers: Circuits that Discriminate between Transient and Sustained Stimulation. Cell Systems, 2019, 9, 297-308.e2.	6.2	27
18	Beyond national indicators: adapting the Demographic and Health Surveys' sampling strategies and questions to better inform subnational malaria intervention policy. Malaria Journal, 2021, 20, 122.	2.3	26

#	Article	IF	Citations
19	Spectral response of Cantor multilayers made of materials with negative refractive index. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 301, 377-381.	2.1	21
20	Geographic and demographic heterogeneity of SARS-CoV-2 diagnostic testing in Illinois, USA, March to December 2020. BMC Public Health, 2021, 21, 1105.	2.9	19
21	Supporting COVID-19 Policy Response with Large-scale Mobility-based Modeling. , 2021, , .		16
22	Vector genetics, insecticide resistance and gene drives: An agent-based modeling approach to evaluate malaria transmission and elimination. PLoS Computational Biology, 2020, 16, e1008121.	3.2	15
23	Long-term effects of increased adoption of artemisinin combination therapies in Burkina Faso. PLOS Global Public Health, 2022, 2, e0000111.	1.6	13
24	Reducing malaria burden and accelerating elimination with long-lasting systemic insecticides: a modelling study of three potential use cases. Malaria Journal, 2019, 18, 307.	2.3	11
25	Dynamics of supercooled liquids: Universality of relaxation time near the crossover temperature. Journal of Chemical Physics, 2003, 119, 4473-4477.	3.0	10
26	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. BMJ Open, 2019, 9, e030598.	1.9	10
27	Impact of mass drug administration campaigns depends on interaction with seasonal human movement. International Health, 2018, 10, 252-257.	2.0	9
28	Identifying the measurements required to estimate rates of COVID-19 transmission, infection, and detection, using variational data assimilation. Infectious Disease Modelling, 2021, 6, 133-147.	1.9	9
29	Mechanistic within-host models of the asexual Plasmodium falciparum infection: a review and analytical assessment. Malaria Journal, 2021, 20, 309.	2.3	7
30	Modeling robust COVID-19 intensive care unit occupancy thresholds for imposing mitigation to prevent exceeding capacities. PLOS Global Public Health, 2022, 2, e0000308.	1.6	7
31	<title>On mediums with negative phase velocity: a brief overview</title>. , 2002, , .		5
32	Fun with maths: exploring implications of mathematical models for malaria eradication. Malaria Journal, 2014, 13, 486.	2.3	5
33	Modeling impact and costâ€effectiveness of drivingâ€Y gene drives for malaria elimination in the Democratic Republic of the Congo. Evolutionary Applications, 2022, 15, 132-148.	3.1	5
34	From puddles to planet: modeling approaches to vector-borne diseases at varying resolution and scale. Current Opinion in Insect Science, 2015, 10, 118-123.	4.4	4
35	Model citizen â€" Authors' reply. The Lancet Global Health, 2017, 5, e974.	6.3	1
36	SARS-CoV-2 Infection Among Pregnant People at Labor and Delivery and Changes in Infection Rates in the General Population: Lessons Learned From Illinois. Public Health Reports, 2022, , 003335492210918.	2.5	0