Calistus N Ngonghala

List of Publications by Year
in descending order

40	2,115	377584	340414
papers	citations	21 h-index	39 g-index

57	57	57	2629
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Warming temperatures could expose more than 1.3Âbillion new people to Zika virus risk by 2050. Global Change Biology, 2021, 27, 84-93.	4.2	57
2	A primer on using mathematics to understand COVID-19 dynamics: Modeling, analysis and simulations. Infectious Disease Modelling, 2021, 6, 148-168.	1.2	98
3	Effects of changes in temperature on Zika dynamics and control. Journal of the Royal Society Interface, 2021, 18, 20210165.	1.5	11
4	Human choice to self-isolate in the face of the COVID-19 pandemic: A game dynamic modelling approach. Journal of Theoretical Biology, 2021, 521, 110692.	0.8	23
5	Integrating Health Systems and Science to Respond to COVID-19 in a Model District of Rural Madagascar. Frontiers in Public Health, 2021, 9, 654299.	1.3	10
6	Toward Achieving a Vaccine-Derived Herd Immunity Threshold for COVID-19 in the U.S.. Frontiers in Public Health, 2021, 9, 709369.	1.3	46
7	Assessing the impact of widespread respirator use in curtailing COVID-19 transmission in the USA. Royal Society Open Science, 2021, 8, 210699.	1.1	19
8	Effects of social-distancing on infectious disease dynamics: an evolutionary game theory and economic perspective. Journal of Biological Dynamics, 2021, 15, 342-366.	0.8	13
9	Could masks curtail the post-lockdown resurgence of COVID-19 in the US?. Mathematical Biosciences, 2020, 329, 108452.	0.9	93
10	Reconciling model predictions with low reported cases of COVID-19 in Sub-Saharan Africa: insights from Madagascar. Global Health Action, 2020, 13, 1816044.	0.7	27
11	IMPACT OF ADAPTIVE MOSQUITO BEHAVIOR AND INSECTICIDE-TREATED NETS ON MALARIA PREVALENCE. Journal of Biological Systems, 2020, 28, 515-542.	0.5	9
12	Predicting COVID-19 spread in the face of control measures in West Africa. Mathematical Biosciences, 2020, 328, 108431.	0.9	46
13	Mathematical assessment of the impact of non-pharmaceutical interventions on curtailing the 2019 novel Coronavirus. Mathematical Biosciences, 2020, 325, 108364.	0.9	438
14	Will an imperfect vaccine curtail the COVID-19 pandemic in the U.S.?. Infectious Disease Modelling, 2020, 5, 510-524.	1.2	148
15	THE IMPACT OF VACCINATION ON MALARIA PREVALENCE: A VACCINE-AGE-STRUCTURED MODELING APPROACH. Journal of Biological Systems, 2020, 28, 475-513.	0.5	6
16	Mathematical modeling and analysis of COVID-19 pandemic in Nigeria. Mathematical Biosciences and Engineering, 2020, 17, 7193-7221.	1.0	56
17	Temperature drives Zika virus transmission: evidence from empirical and mathematical models. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180795.	1.2	151
18	A novel framework to account for ecological drivers in the control and elimination of environmentally transmitted disease: a modelling study. Lancet, The, 2017, 389, S5.	6.3	0

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19	Disease ecology, health and the environment: a framework to account for ecological and socio-economic drivers in the control of neglected tropical diseases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160128.	1.8	78
20	Modelling ecological and socioeconomic feedbacks of Buruli ulcer in sub-Saharan Africa: results from a field study in Cameroon. Lancet, The, 2017, 389, S9.	6.3	0
21	General ecological models for human subsistence, health and poverty. Nature Ecology and Evolution, 2017, 1, 1153-1159.	3.4	25
22	Towards a mechanistic understanding of the synergistic effects of harvesting timber and nonâ€timber forest products. Methods in Ecology and Evolution, 2016, 7, 398-406.	2.2	12
23	Interplay between insecticide-treated bed-nets and mosquito demography: implications for malaria control. Journal of Theoretical Biology, 2016, 397, 179-192.	0.8	27
24	Observance of period-doubling bifurcation and chaos in an autonomous ODE model for malaria with vector demography. Theoretical Ecology, 2016, 9, 337-351.	0.4	12
25	Modeling the burden of poultry disease on the rural poor in Madagascar. One Health, 2015, 1, 60-65.	1.5	14
26	Economic inequality caused by feedbacks between poverty and the dynamics of a rare tropical disease: the case of Buruli ulcer in sub-Saharan Africa. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151426.	1.2	13
27	Environmental transmission of Mycobacterium ulcerans drives dynamics of Buruli ulcer in endemic regions of Cameroon. Scientific Reports, 2015, 5, 18055.	1.6	22
28	Persistent oscillations and backward bifurcation in a malaria model with varying human and mosquito populations: implications for control. Journal of Mathematical Biology, 2015, 70, 1581-1622.	0.8	29
29	The Burden of Livestock Parasites on the Poor. Trends in Parasitology, 2015, 31, 527-530.	1.5	23
30	On a Reproductive Stage-Structured Model for the Population Dynamics of the Malaria Vector. Bulletin of Mathematical Biology, 2014, 76, 2476-2516.	0.9	17
31	Poverty, Disease, and the Ecology of Complex Systems. PLoS Biology, 2014, 12, e1001827.	2.6	57
32	Quantifying the impact of decay in bed-net efficacy on malaria transmission. Journal of Theoretical Biology, 2014, 363, 247-261.	0.8	54
33	Experimental observation of extreme multistability in an electronic system of two coupled RÃ¶ssler oscillators. Physical Review E, 2014, 89, 022918.	0.8	86
34	The impact of bed-net use on malaria prevalence. Journal of Theoretical Biology, 2013, 320, 58-65.	0.8	92
35	Clusters of poverty and disease emerge from feedbacks on an epidemiological network. Journal of the Royal Society Interface, 2013, 10, 20120656.	1.5	19
36	Models and Proposals for Malaria: A Review. Mathematical Population Studies, 2013, 20, 57-81.	0.8	22

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37	Evalution of the â€œIceberg Phenomenonâ€•in Johne's Disease through Mathematical Modelling. PLoS ONE, 2013, 8, e76636.	1.1	30
38	Periodic oscillations and backward bifurcation in a model for the dynamics of malaria transmission. Mathematical Biosciences, 2012, 240, 45-62.	0.9	38
39	Extreme multistability in a chemical model system. Physical Review E, 2011, 83, 056206.	0.8	93
40	Health safety nets can break cycles of poverty and disease: a stochastic ecological model. Journal of the Royal Society Interface, 2011, 8, 1796-1803.	1.5	20