

Kris Varun Parag

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

3,969
citations

14
h-index

63
g-index

69
ext. papers

5,893
ext. citations

13.1
avg, IF

5.48
L-index

#	Paper	IF	Citations
49	A computationally tractable birth-death model that combines phylogenetic and epidemiological data.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009805	5	0
48	Fundamental limits on inferring epidemic resurgence in real time using effective reproduction numbers.. <i>PLoS Computational Biology</i> , 2022 , 18, e1010004	5	1
47	Are skyline plot-based demographic estimates overly dependent on smoothing prior assumptions?. <i>Systematic Biology</i> , 2021 ,	8.4	4
46	Spatiotemporal invasion dynamics of SARS-CoV-2 lineage B.1.1.7 emergence. <i>Science</i> , 2021 , 373, 889-895	33.3	41
45	Database of epidemic trends and control measures during the first wave of COVID-19 in mainland China. <i>International Journal of Infectious Diseases</i> , 2021 , 102, 463-471	10.5	3
44	Three-quarters attack rate of SARS-CoV-2 in the Brazilian Amazon during a largely unmitigated epidemic. <i>Science</i> , 2021 , 371, 288-292	33.3	265
43	Establishment and lineage dynamics of the SARS-CoV-2 epidemic in the UK. <i>Science</i> , 2021 , 371, 708-712	33.3	159
42	Reduction in mobility and COVID-19 transmission. <i>Nature Communications</i> , 2021 , 12, 1090	17.4	142
41	Resurgence of COVID-19 in Manaus, Brazil, despite high seroprevalence. <i>Lancet, The</i> , 2021 , 397, 452-455	40	481
40	Sub-spreading events limit the reliable elimination of heterogeneous epidemics. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20210444	4.1	2
39	Improved estimation of time-varying reproduction numbers at low case incidence and between epidemic waves. <i>PLoS Computational Biology</i> , 2021 , 17, e1009347	5	9
38	Deciphering early-warning signals of SARS-CoV-2 elimination and resurgence from limited data at multiple scales.. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20210569	4.1	3
37	Using information theory to optimise epidemic models for real-time prediction and estimation. <i>PLoS Computational Biology</i> , 2020 , 16, e1007990	5	16
36	Jointly Inferring the Dynamics of Population Size and Sampling Intensity from Molecular Sequences. <i>Molecular Biology and Evolution</i> , 2020 , 37, 2414-2429	8.3	10
35	An exact method for quantifying the reliability of end-of-epidemic declarations in real time. <i>PLoS Computational Biology</i> , 2020 , 16, e1008478	5	16
34	Estimating the effects of non-pharmaceutical interventions on COVID-19 in Europe. <i>Nature</i> , 2020 , 584, 257-261	50.4	1469
33	Potential impact of the COVID-19 pandemic on HIV, tuberculosis, and malaria in low-income and middle-income countries: a modelling study. <i>The Lancet Global Health</i> , 2020 , 8, e1132-e1141	13.6	307

32	State-level tracking of COVID-19 in the United States. <i>Nature Communications</i> , 2020 , 11, 6189	17.4	54
31	Epidemiological and clinical characteristics of the COVID-19 epidemic in Brazil. <i>Nature Human Behaviour</i> , 2020 , 4, 856-865	12.8	151
30	Suppression of a SARS-CoV-2 outbreak in the Italian municipality of Voà <i>Nature</i> , 2020 , 584, 425-429	50.4	631
29	Key questions for modelling COVID-19 exit strategies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20201405	4.4	65
28	SARS-CoV-2 infection prevalence on repatriation flights from Wuhan City, China. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	4
27	Adaptive Estimation for Epidemic Renewal and Phylogenetic Skyline Models. <i>Systematic Biology</i> , 2020 , 69, 1163-1179	8.4	14
26	Using information theory to optimise epidemic models for real-time prediction and estimation 2020 , 16, e1007990		
25	Using information theory to optimise epidemic models for real-time prediction and estimation 2020 , 16, e1007990		
24	Using information theory to optimise epidemic models for real-time prediction and estimation 2020 , 16, e1007990		
23	Using information theory to optimise epidemic models for real-time prediction and estimation 2020 , 16, e1007990		
22	Using information theory to optimise epidemic models for real-time prediction and estimation 2020 , 16, e1007990		
21	Using information theory to optimise epidemic models for real-time prediction and estimation 2020 , 16, e1007990		
20	Comparative micro-epidemiology of pathogenic avian influenza virus outbreaks in a wild bird population. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20180259	5.8	13
19	Robust Design for Coalescent Model Inference. <i>Systematic Biology</i> , 2019 , 68, 730-743	8.4	14
18	On signalling and estimation limits for molecular birth-processes. <i>Journal of Theoretical Biology</i> , 2019 , 480, 262-273	2.3	3
17	Exact Bayesian inference for phylogenetic birth-death models. <i>Bioinformatics</i> , 2018 , 34, 3638-3645	7.2	9
16	Optimal point process filtering and estimation of the coalescent process. <i>Journal of Theoretical Biology</i> , 2017 , 421, 153-167	2.3	9
15	Point process analysis of noise in early invertebrate vision. <i>PLoS Computational Biology</i> , 2017 , 13, e1005687	6.87	10

14	Event triggered signalling codecs for molecular estimation 2013,	1
13	Single event molecular signalling for estimation and control 2013,	2
12	Jointly inferring the dynamics of population size and sampling intensity from molecular sequences	1
11	Adaptive Estimation for Epidemic Renewal and Phylogenetic Skyline Models	2
10	Optimising Renewal Models for Real-Time Epidemic Prediction and Estimation	4
9	Are skyline plot-based demographic estimates overly dependent on smoothing prior assumptions?	2
8	A sub-national analysis of the rate of transmission of COVID-19 in Italy	10
7	Subnational analysis of the COVID-19 epidemic in Brazil	12
6	Improved estimation of time-varying reproduction numbers at low case incidence and between epidemic waves	8
5	Establishment & lineage dynamics of the SARS-CoV-2 epidemic in the UK	9
4	Deciphering early-warning signals of SARS-CoV-2 elimination and resurgence from limited data at multiple scales	4
3	Are epidemic growth rates more informative than reproduction numbers?	5
2	Global predictions of short- to medium-term COVID-19 transmission trends : a retrospective assessment	1
1	Genomic epidemiology of early SARS-CoV-2 transmission dynamics in Gujarat, India	2