Romesh G Abeysuriya

List of Publications by Year
in descending order

28 papers	**1,757** citations	516710 **16** h-index	526287 **27** g-index
38 all docs	**38** docs citations	**38** times ranked	**1984** citing authors

#	ARTICLE	IF	CITATIONS
1	Covasim: An agent-based model of COVID-19 dynamics and interventions. PLoS Computational Biology, 2021, 17, e1009149.	3.2	330
2	Discovering dynamic brain networks from big data in rest and task. NeuroImage, 2018, 180, 646-656.	4.2	253
3	Metastable brain waves. Nature Communications, 2019, 10, 1056.	12.8	170
4	Task-Evoked Dynamic Network Analysis Through Hidden Markov Modeling. Frontiers in Neuroscience, 2018, 12, 603.	2.8	137
5	How do spatially distinct frequency specific MEG networks emerge from one underlying structural connectome? The role of the structural eigenmodes. NeuroImage, 2019, 186, 211-220.	4.2	81
6	Controlling COVID-19 via test-trace-quarantine. Nature Communications, 2021, 12, 2993.	12.8	74
7	A biophysical model of dynamic balancing of excitation and inhibition in fast oscillatory large-scale networks. PLoS Computational Biology, 2018, 14, e1006007.	3.2	73
8	A unified model of melatonin, 6â€sulfatoxymelatonin, and sleep dynamics. Journal of Pineal Research, 2018, 64, e12474.	7.4	66
9	Physiologically based arousal state estimation and dynamics. Journal of Neuroscience Methods, 2015, 253, 55-69.	2.5	65
10	Modelling the impact of relaxing <scp>COVID</scp> â€19 control measures during a period of low viral transmission. Medical Journal of Australia, 2021, 214, 79-83.	1.7	58
11	Mammalian Sleep Dynamics: How Diverse Features Arise from a Common Physiological Framework. PLoS Computational Biology, 2010, 6, e1000826.	3.2	45
12	Exploring Sleepiness and Entrainment on Permanent Shift Schedules in a Physiologically Based Model. Journal of Biological Rhythms, 2012, 27, 91-102.	2.6	40
13	Prediction and verification of nonlinear sleep spindle harmonic oscillations. Journal of Theoretical Biology, 2014, 344, 70-77.	1.7	36
14	Real-time automated EEG tracking of brain states using neural field theory. Journal of Neuroscience Methods, 2016, 258, 28-45.	2.5	30
15	Experimental observation of a theoretically predicted nonlinear sleep spindle harmonic in human EEG. Clinical Neurophysiology, 2014, 125, 2016-2023.	1.5	25
16	NFTsim: Theory and Simulation of Multiscale Neural Field Dynamics. PLoS Computational Biology, 2018, 14, e1006387.	3.2	25
17	Estimating and mitigating the risk of COVID-19 epidemic rebound associated with reopening of international borders in Vietnam: a modelling study. The Lancet Global Health, 2021, 9, e916-e924.	6.3	22
18	Role of masks, testing and contact tracing in preventing COVID-19 resurgences: a case study from New South Wales, Australia. BMJ Open, 2021, 11, e045941.	1.9	18

#	Article	IF	Citations
19	Bayesian Optimisation of Large-Scale Biophysical Networks. NeuroImage, 2018, 174, 219-236.	4.2	16
20	Transient spectral events in resting state MEG predict individual task responses. NeuroImage, 2020, 215, 116818.	4.2	14
21	Diabetes care cascade in Ukraine: an analysis of breakpoints and opportunities for improved diabetes outcomes. BMC Health Services Research, 2020, 20, 409.	2.2	12
22	Physiologically based quantitative modeling of unihemispheric sleep. Journal of Theoretical Biology, 2012, 314, 109-119.	1.7	10
23	Preventing a cluster from becoming a new wave in settings with zero community COVID-19 cases. BMC Infectious Diseases, 2022, 22, 232.	2.9	9
24	Optima TB: A tool to help optimally allocate tuberculosis spending. PLoS Computational Biology, 2021, 17, e1009255.	3.2	8
25	Risk of sustained SARS-CoV-2 transmission in Queensland, Australia. Scientific Reports, 2022, 12, 6309.	3.3	5
26	Ideal MHD stability of a spherical tokamak power plant and a component test facility. Plasma Physics and Controlled Fusion, 2010, 52, 125005.	2.1	3
27	Sleep analytics and online selective anomaly detection. , 2014, , .		2
28	The Cascade Analysis Tool: software to analyze and optimize care cascades. Gates Open Research, 2019, 3, 1488.	1.1	2