Johannes Müller

List of Publications by Year
in descending order

26 papers	463 citations	840776 11 h-index	752698 20 g-index
28 all docs	28 docs citations	28 times ranked	492 citing authors

#	Article	IF	Citations
1	Life-History traits and the replicator equation. Mathematical Biosciences, 2022, 349, 108826.	1.9	1
2	Contact tracing â€" Old models and new challenges. Infectious Disease Modelling, 2021, 6, 222-231.	1.9	38
3	Forward thinking on backward tracing. Nature Physics, 2021, 17, 555-556.	16.7	5
4	Should I stay or should I go?. ELife, 2021, 10, .	6.0	2
5	Exact and approximate formulas for contact tracing on random trees. Mathematical Biosciences, 2020, 321, 108320.	1.9	18
6	Evolutionary Stability of Salmonella Competition with the Gut Microbiota: How the Environment Fosters Heterogeneity in Exploitative and Interference Competition. Journal of Molecular Biology, 2019, 431, 4732-4748.	4.2	8
7	Are the better cooperators dormant or quiescent?. Mathematical Biosciences, 2019, 318, 108272.	1.9	5
8	Evolutionary model for the unequal segregation of high copy plasmids. PLoS Computational Biology, 2019, 15, e1006724.	3.2	9
9	Global stability properties of a class of renewal epidemic models. Journal of Mathematical Biology, 2019, 78, 1713-1725.	1.9	1
10	Effects of population- and seed bank size fluctuations on neutral evolution and efficacy of natural selection. Theoretical Population Biology, 2018, 123, 45-69.	1.1	15
11	Fisherâ€"Wright model with deterministic seed bank and selection. Theoretical Population Biology, 2017, 114, 29-39.	1.1	31
12	A Precise Temperature-Responsive Bistable Switch Controlling Yersinia Virulence. PLoS Pathogens, 2016, 12, e1006091.	4.7	24
13	The effect of delay on contact tracing. Mathematical Biosciences, 2016, 282, 204-214.	1.9	15
14	A new network approach to Bayesian inference in partial differential equations. International Journal for Numerical Methods in Engineering, 2015, 104, 313-329.	2.8	4
15	Graphical limit sets for general cellular automata. Theoretical Computer Science, 2015, 580, 14-27.	0.9	1
16	Polar Fixation of Plasmids during Recombinant Protein Production in Bacillus megaterium Results in Population Heterogeneity. Applied and Environmental Microbiology, 2015, 81, 5976-5986.	3.1	26
17	Methods and Models in Mathematical Biology. Lecture Notes on Mathematical Modelling in the Life Sciences, 2015, , .	0.4	43
18	Modelling and analysis of a gene-regulatory feed-forward loop with basal expression of the second regulator. Journal of Theoretical Biology, 2014, 363, 290-299.	1.7	5

#	Article	IF	Citations
19	Determination of optimal vaccination strategies using an orbital stability threshold from periodically driven systems. Journal of Mathematical Biology, 2014, 68, 763-784.	1.9	12
20	Individual-Based Model for Quorum Sensing with Background Flow. Bulletin of Mathematical Biology, 2014, 76, 1727-1746.	1.9	14
21	Approximating the dynamics of communicating cells in a diffusive medium by ODEsâ€"homogenization with localization. Journal of Mathematical Biology, 2013, 67, 1023-1065.	1.9	23
22	A polynomial chaos based Bayesian approach for on-line parameter estimation and control. , 2011, , .		0
23	Sensitivity of the quorum sensing system is achieved by low pass filtering. BioSystems, 2008, 92, 76-81.	2.0	36
24	Transcription, intercellular variability and correlated random walk. Mathematical Biosciences, 2008, 216, 30-39.	1.9	10
25	Estimating the Tracing Probability from Contact History at the Onset of an Epidemic. Mathematical Population Studies, 2007, 14, 211-236.	2.2	8
26	Contact tracing in stochastic and deterministic epidemic models. Mathematical Biosciences, 2000, 164, 39-64.	1.9	107