

# Johannes MÃ¼ller

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Contact tracing in stochastic and deterministic epidemic models. <i>Mathematical Biosciences</i> , 2000, 164, 39-64.	1.9	107
2	Methods and Models in Mathematical Biology. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2015, , .	0.4	43
3	Contact tracing – Old models and new challenges. <i>Infectious Disease Modelling</i> , 2021, 6, 222-231.	1.9	38
4	Sensitivity of the quorum sensing system is achieved by low pass filtering. <i>BioSystems</i> , 2008, 92, 76-81.	2.0	36
5	Fisher’s Wright model with deterministic seed bank and selection. <i>Theoretical Population Biology</i> , 2017, 114, 29-39.	1.1	31
6	Polar Fixation of Plasmids during Recombinant Protein Production in <i>Bacillus megaterium</i> Results in Population Heterogeneity. <i>Applied and Environmental Microbiology</i> , 2015, 81, 5976-5986.	3.1	26
7	A Precise Temperature-Responsive Bistable Switch Controlling <i>Yersinia</i> Virulence. <i>PLoS Pathogens</i> , 2016, 12, e1006091.	4.7	24
8	Approximating the dynamics of communicating cells in a diffusive medium by ODEs’ homogenization with localization. <i>Journal of Mathematical Biology</i> , 2013, 67, 1023-1065.	1.9	23
9	Exact and approximate formulas for contact tracing on random trees. <i>Mathematical Biosciences</i> , 2020, 321, 108320.	1.9	18
10	The effect of delay on contact tracing. <i>Mathematical Biosciences</i> , 2016, 282, 204-214.	1.9	15
11	Effects of population- and seed bank size fluctuations on neutral evolution and efficacy of natural selection. <i>Theoretical Population Biology</i> , 2018, 123, 45-69.	1.1	15
12	Individual-Based Model for Quorum Sensing with Background Flow. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 1727-1746.	1.9	14
13	Determination of optimal vaccination strategies using an orbital stability threshold from periodically driven systems. <i>Journal of Mathematical Biology</i> , 2014, 68, 763-784.	1.9	12
14	Transcription, intercellular variability and correlated random walk. <i>Mathematical Biosciences</i> , 2008, 216, 30-39.	1.9	10
15	Evolutionary model for the unequal segregation of high copy plasmids. <i>PLoS Computational Biology</i> , 2019, 15, e1006724.	3.2	9
16	Estimating the Tracing Probability from Contact History at the Onset of an Epidemic. <i>Mathematical Population Studies</i> , 2007, 14, 211-236.	2.2	8
17	Evolutionary Stability of <i>Salmonella</i> Competition with the Gut Microbiota: How the Environment Fosters Heterogeneity in Exploitative and Interference Competition. <i>Journal of Molecular Biology</i> , 2019, 431, 4732-4748.	4.2	8
18	Modelling and analysis of a gene-regulatory feed-forward loop with basal expression of the second regulator. <i>Journal of Theoretical Biology</i> , 2014, 363, 290-299.	1.7	5

#	ARTICLE	IF	CITATIONS
19	Are the better cooperators dormant or quiescent?. <i>Mathematical Biosciences</i> , 2019, 318, 108272.	1.9	5
20	Forward thinking on backward tracing. <i>Nature Physics</i> , 2021, 17, 555-556.	16.7	5
21	A new network approach to Bayesian inference in partial differential equations. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 104, 313-329.	2.8	4
22	Should I stay or should I go?. <i>ELife</i> , 2021, 10, .	6.0	2
23	Graphical limit sets for general cellular automata. <i>Theoretical Computer Science</i> , 2015, 580, 14-27.	0.9	1
24	Global stability properties of a class of renewal epidemic models. <i>Journal of Mathematical Biology</i> , 2019, 78, 1713-1725.	1.9	1
25	Life-History traits and the replicator equation. <i>Mathematical Biosciences</i> , 2022, 349, 108826.	1.9	1
26	A polynomial chaos based Bayesian approach for on-line parameter estimation and control. , 2011, , .		0