

Ivo Siekmann

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

391
citations

933447

10
h-index

794594

19
g-index

24
all docs

24
docs citations

24
times ranked

408
citing authors

#	ARTICLE	IF	CITATIONS
1	A type IV functional response with different shapes in a predator–prey model. <i>Journal of Theoretical Biology</i> , 2020, 505, 110419.	1.7	14
2	Taxis-driven pattern formation in a predator-prey model with group defense. <i>Ecological Complexity</i> , 2020, 43, 100848.	2.9	7
3	Data-Driven Modelling of the Inositol Trisphosphate Receptor (IP ₃ R) and its Role in Calcium-Induced Calcium Release (CICR). <i>Springer Series in Computational Neuroscience</i> , 2019, , 39-68.	0.3	2
4	Mathematical modelling indicates that lower activity of the haemostatic system in neonates is primarily due to lower prothrombin concentration. <i>Scientific Reports</i> , 2019, 9, 3936.	3.3	4
5	Invasive competition with Fokker-Planck diffusion and noise. <i>Ecological Complexity</i> , 2018, 34, 134-138.	2.9	1
6	An applied mathematician's perspective on Rosennean Complexity. <i>Ecological Complexity</i> , 2018, 35, 28-38.	2.9	8
7	Bond graph modelling of chemoelectrical energy transduction. <i>IET Systems Biology</i> , 2017, 11, 127-138.	1.5	18
8	Coexistence of competitors mediated by nonlinear noise. <i>European Physical Journal: Special Topics</i> , 2017, 226, 2157-2170.	2.6	3
9	Modelling modal gating of ion channels with hierarchical Markov models. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160122.	2.1	14
10	Fighting Enemies and Noise: Competition of Residents and Invaders in a Stochastically Fluctuating Environment. <i>Mathematical Modelling of Natural Phenomena</i> , 2016, 11, 137-157.	2.4	6
11	Examination of the Effects of Heterogeneous Organization of RyR Clusters, Myofibrils and Mitochondria on Ca ²⁺ Release Patterns in Cardiomyocytes. <i>PLoS Computational Biology</i> , 2015, 11, e1004417.	3.2	46
12	Bifurcation analysis of individual-based models in population dynamics. <i>Ecological Complexity</i> , 2015, 21, 177-184.	2.9	4
13	Statistical analysis of modal gating in ion channels. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140030.	2.1	14
14	PyTrA: ultra-fast transient absorption data analysis software. <i>International Journal of Nanotechnology</i> , 2014, 11, 601.	0.2	0
15	On competition in ecology, epidemiology and eco-epidemiology. <i>Ecological Complexity</i> , 2013, 14, 166-179.	2.9	2
16	MCMC Can Detect Nonidentifiable Models. <i>Biophysical Journal</i> , 2012, 103, 2275-2286.	0.5	80
17	A Park/Drive Model for the Inositol-Trisphosphate Receptor (IPR). <i>Biophysical Journal</i> , 2012, 102, 110a.	0.5	0
18	A Kinetic Model for Type I and II IP ₃ R Accounting for Mode Changes. <i>Biophysical Journal</i> , 2012, 103, 658-668.	0.5	59

#	ARTICLE	IF	CITATIONS
19	MCMC Estimation of Markov Models for Ion Channels. Biophysical Journal, 2011, 100, 1919-1929.	0.5	54
20	On competition of predators and prey infection. Ecological Complexity, 2010, 7, 446-457.	2.9	19
21	Mathematical Models of Pattern Formation in Planktonic Predation-Diffusion Systems: A Review. , 2008, , 1-26.		1
22	Predation may defeat spatial spread of infection. Journal of Biological Dynamics, 2008, 2, 40-54.	1.7	6
23	Local Collapses in the Truscott-Brindley Model. Mathematical Modelling of Natural Phenomena, 2008, 3, 114-130.	2.4	7
24	An extension of the Beretta-Kuang model of viral diseases. Mathematical Biosciences and Engineering, 2008, 5, 549-565.	1.9	22