

Lora Billings

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11068111/publications.pdf>

Version: 2024-02-01

33
papers

848
citations

430874

18
h-index

477307

29
g-index

34
all docs

34
docs citations

34
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizing outbreak vulnerability in a stochastic <i>SIS</i> model with an external disease reservoir. <i>Journal of the Royal Society Interface</i> , 2022, 19, .	3.4	0
2	Seasonal effects on the stoichiometry of microbes, primary production, and nutrient cycling. <i>Theoretical Ecology</i> , 2021, 14, 321-333.	1.0	2
3	Seasonal forcing in stochastic epidemiology models. <i>Ricerche Di Matematica</i> , 2018, 67, 27-47.	1.0	16
4	Extinction pathways and outbreak vulnerability in a stochastic Ebola model. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160847.	3.4	23
5	Computing the optimal path in stochastic dynamical systems. <i>Chaos</i> , 2016, 26, 083101.	2.5	8
6	Herbivory and Stoichiometric Feedbacks to Primary Production. <i>PLoS ONE</i> , 2015, 10, e0129775.	2.5	16
7	Analysis and Control of Pre-extinction Dynamics in Stochastic Populations. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 3122-3137.	1.9	6
8	Succeeding in Undergraduate Student Research: A Few Helpful Hints for Advisors. <i>Primus</i> , 2013, 23, 798-804.	0.5	2
9	Intervention-Based Stochastic Disease Eradication. <i>PLoS ONE</i> , 2013, 8, e70211.	2.5	19
10	Disease persistence in epidemiological models: The interplay between vaccination and migration. <i>Mathematical Biosciences</i> , 2012, 239, 91-96.	1.9	17
11	Set-based corral control in stochastic dynamical systems: Making almost invariant sets more invariant. <i>Chaos</i> , 2011, 21, 013116.	2.5	22
12	Switching Exponent Scaling near Bifurcation Points for Non-Gaussian Noise. <i>Physical Review Letters</i> , 2010, 104, 140601.	7.8	19
13	Accurate noise projection for reduced stochastic epidemic models. <i>Chaos</i> , 2009, 19, 043110.	2.5	23
14	Predicting extinction rates in stochastic epidemic models. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P01005.	2.3	40
15	Thermally activated switching in the presence of non-Gaussian noise. <i>Physical Review E</i> , 2008, 78, 051122.	2.1	13
16	Vaccinations in disease models with antibody-dependent enhancement. <i>Mathematical Biosciences</i> , 2008, 211, 265-281.	1.9	26
17	Identifying almost invariant sets in stochastic dynamical systems. <i>Chaos</i> , 2008, 18, 023122.	2.5	19
18	Instabilities in multiserotype disease models with antibody-dependent enhancement. <i>Journal of Theoretical Biology</i> , 2007, 246, 18-27.	1.7	49

#	ARTICLE	IF	CITATIONS
19	Using dimension reduction to improve outbreak predictability of multistrain diseases. <i>Journal of Mathematical Biology</i> , 2007, 55, 1-19.	1.9	9
20	Chaotic desynchronization of multistrain diseases. <i>Physical Review E</i> , 2005, 72, 066201.	2.1	45
21	Dynamic effects of antibody-dependent enhancement on the fitness of viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15259-15264.	7.1	133
22	Stochastic bifurcation in a driven laser system: Experiment and theory. <i>Physical Review E</i> , 2004, 70, 026220.	2.1	17
23	Dynamical epidemic suppression using stochastic prediction and control. <i>Physical Review E</i> , 2004, 70, 046220.	2.1	18
24	Multi-scale continuum mechanics: From global bifurcations to noise induced high-dimensional chaos. <i>Chaos</i> , 2004, 14, 373-386.	2.5	8
25	Noise-induced unstable dimension variability and transition to chaos in random dynamical systems. <i>Physical Review E</i> , 2003, 67, 026210.	2.1	41
26	Transition to Chaos in Continuous-Time Random Dynamical Systems. <i>Physical Review Letters</i> , 2002, 88, 124101.	7.8	28
27	Phase-Space Transport of Stochastic Chaos in Population Dynamics of Virus Spread. <i>Physical Review Letters</i> , 2002, 88, 234101.	7.8	41
28	A manifold independent approach to understanding transport in stochastic dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , 2002, 173, 153-177.	2.8	33
29	A unified prediction of computer virus spread in connected networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 297, 261-266.	2.1	92
30	Bi-instability and the global role of unstable resonant orbits in a driven laser. <i>Physica D: Nonlinear Phenomena</i> , 2000, 147, 59-82.	2.8	30
31	Symmetric functions and exact Lyapunov exponents. <i>Physica D: Nonlinear Phenomena</i> , 1998, 121, 44-64.	2.8	0
32	Lyapunov Exponents, Singularities, and a Riddling Bifurcation. <i>Physical Review Letters</i> , 1997, 79, 1018-1021.	7.8	17
33	On noninvertible mappings of the plane: Eruptions. <i>Chaos</i> , 1996, 6, 108-120.	2.5	14