

Lora Billings

List of Publications by Year in descending order

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33
papers

848
citations

430874

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477307

29
g-index

34
all docs

34
docs citations

34
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic effects of antibody-dependent enhancement on the fitness of viruses. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15259-15264.	7.1	133
2	A unified prediction of computer virus spread in connected networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 297, 261-266.	2.1	92
3	Instabilities in multiserotype disease models with antibody-dependent enhancement. Journal of Theoretical Biology, 2007, 246, 18-27.	1.7	49
4	Chaotic desynchronization of multistrain diseases. Physical Review E, 2005, 72, 066201.	2.1	45
5	Phase-Space Transport of Stochastic Chaos in Population Dynamics of Virus Spread. Physical Review Letters, 2002, 88, 234101.	7.8	41
6	Noise-induced unstable dimension variability and transition to chaos in random dynamical systems. Physical Review E, 2003, 67, 026210.	2.1	41
7	Predicting extinction rates in stochastic epidemic models. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01005.	2.3	40
8	A manifold independent approach to understanding transport in stochastic dynamical systems. Physica D: Nonlinear Phenomena, 2002, 173, 153-177.	2.8	33
9	Bi-instability and the global role of unstable resonant orbits in a driven laser. Physica D: Nonlinear Phenomena, 2000, 147, 59-82.	2.8	30
10	Transition to Chaos in Continuous-Time Random Dynamical Systems. Physical Review Letters, 2002, 88, 124101.	7.8	28
11	Vaccinations in disease models with antibody-dependent enhancement. Mathematical Biosciences, 2008, 211, 265-281.	1.9	26
12	Accurate noise projection for reduced stochastic epidemic models. Chaos, 2009, 19, 043110.	2.5	23
13	Extinction pathways and outbreak vulnerability in a stochastic Ebola model. Journal of the Royal Society Interface, 2017, 14, 20160847.	3.4	23
14	Set-based corral control in stochastic dynamical systems: Making almost invariant sets more invariant. Chaos, 2011, 21, 013116.	2.5	22
15	Identifying almost invariant sets in stochastic dynamical systems. Chaos, 2008, 18, 023122.	2.5	19
16	Switching Exponent Scaling near Bifurcation Points for Non-Gaussian Noise. Physical Review Letters, 2010, 104, 140601.	7.8	19
17	Intervention-Based Stochastic Disease Eradication. PLoS ONE, 2013, 8, e70211.	2.5	19
18	Dynamical epidemic suppression using stochastic prediction and control. Physical Review E, 2004, 70, 046220.	2.1	18

#	ARTICLE	IF	CITATIONS
19	Lyapunov Exponents, Singularities, and a Riddling Bifurcation. <i>Physical Review Letters</i> , 1997, 79, 1018-1021.	7.8	17
20	Stochastic bifurcation in a driven laser system: Experiment and theory. <i>Physical Review E</i> , 2004, 70, 026220.	2.1	17
21	Disease persistence in epidemiological models: The interplay between vaccination and migration. <i>Mathematical Biosciences</i> , 2012, 239, 91-96.	1.9	17
22	Herbivory and Stoichiometric Feedbacks to Primary Production. <i>PLoS ONE</i> , 2015, 10, e0129775.	2.5	16
23	Seasonal forcing in stochastic epidemiology models. <i>Ricerche Di Matematica</i> , 2018, 67, 27-47.	1.0	16
24	On noninvertible mappings of the plane: Eruptions. <i>Chaos</i> , 1996, 6, 108-120.	2.5	14
25	Thermally activated switching in the presence of non-Gaussian noise. <i>Physical Review E</i> , 2008, 78, 051122.	2.1	13
26	Using dimension reduction to improve outbreak predictability of multistrain diseases. <i>Journal of Mathematical Biology</i> , 2007, 55, 1-19.	1.9	9
27	Multi-scale continuum mechanics: From global bifurcations to noise induced high-dimensional chaos. <i>Chaos</i> , 2004, 14, 373-386.	2.5	8
28	Computing the optimal path in stochastic dynamical systems. <i>Chaos</i> , 2016, 26, 083101.	2.5	8
29	Analysis and Control of Pre-extinction Dynamics in Stochastic Populations. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 3122-3137.	1.9	6
30	Succeeding in Undergraduate Student Research: A Few Helpful Hints for Advisors. <i>Primus</i> , 2013, 23, 798-804.	0.5	2
31	Seasonal effects on the stoichiometry of microbes, primary production, and nutrient cycling. <i>Theoretical Ecology</i> , 2021, 14, 321-333.	1.0	2
32	Symmetric functions and exact Lyapunov exponents. <i>Physica D: Nonlinear Phenomena</i> , 1998, 121, 44-64.	2.8	0
33	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