Linda J S Allen, Ljs Allen

List of Publications by Year
in descending order

57 papers	1,995 citations	293460 24 h-index	286692 43 g-index
60 all docs	60 docs citations	60 times ranked	1766 citing authors

#	Article	IF	Citations
1	The effect of demographic and environmental variability on disease outbreak for a dengue model with a seasonally varying vector population. Mathematical Biosciences, 2021, 331, 108516.	0.9	16
2	Effects of environmental variability on superspreading transmission events in stochastic epidemic models. Infectious Disease Modelling, 2021, 6, 560-583.	1.2	6
3	Probability of a zoonotic spillover with seasonal variation. Infectious Disease Modelling, 2021, 6, 514-531.	1.2	10
4	Stochastic models of infectious diseases in a periodic environment with application to cholera epidemics. Journal of Mathematical Biology, 2021, 82, 48.	0.8	6
5	Disease Emergence in Multi-Patch Stochastic Epidemic Models with Demographic and Seasonal Variability. Bulletin of Mathematical Biology, 2020, 82, 152.	0.9	12
6	Models of cytokine dynamics in the inflammatory response of viral zoonotic infectious diseases. Mathematical Medicine and Biology, 2019, 36, 269-295.	0.8	13
7	The effect of delay in viral production in within-host models during early infection. Journal of Biological Dynamics, 2019, 13, 47-73.	0.8	14
8	Stochastic Multigroup Epidemic Models: Duration and Final Size. The IMA Volumes in Mathematics and Its Applications, 2019, , 483-507.	0.5	2
9	Modelling Vector Transmission and Epidemiology of Co-Infecting Plant Viruses. Viruses, 2019, 11, 1153.	1.5	23
10	Coinfections by noninteracting pathogens are not independent and require new tests of interaction. PLoS Biology, 2019, 17, e3000551.	2.6	26
11	Stochastic two-group models with transmission dependent on host infectivity or susceptibility. Journal of Biological Dynamics, 2019, 13, 201-224.	0.8	3
12	Coinfections by noninteracting pathogens are not independent and require new tests of interaction. , 2019, 17, e3000551.		0
13	Coinfections by noninteracting pathogens are not independent and require new tests of interaction. , 2019, 17, e3000551.		0
14	Coinfections by noninteracting pathogens are not independent and require new tests of interaction. , 2019, 17, e3000551.		0
15	Coinfections by noninteracting pathogens are not independent and require new tests of interaction. , 2019, 17, e3000551.		0
16	Coinfections by noninteracting pathogens are not independent and require new tests of interaction. , 2019, 17, e3000551.		0
17	Coinfections by noninteracting pathogens are not independent and require new tests of interaction. , 2019, 17, e3000551.		0
18	Searching for Superspreaders: Identifying Epidemic Patterns Associated with Superspreading Events in Stochastic Models. Association for Women in Mathematics Series, 2018, , 1-29.	0.1	6

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19	Duration of a minor epidemic. Infectious Disease Modelling, 2018, 3, 60-73.	1.2	12
20	Predicting population extinction or disease outbreaks with stochastic models. Letters in Biomathematics, 2017, 4, 1-22.	0.3	3
21	The evolution of parasitic and mutualistic plantâ€“virus symbioses through transmission-virulence trade-offs. Virus Research, 2017, 241, 77-87.	1.1	18
22	Modeling Virus Coinfection to Inform Management of Maize Lethal Necrosis in Kenya. Phytopathology, 2017, 107, 1095-1108.	1.1	41
23	A primer on stochastic epidemic models: Formulation, numerical simulation, and analysis. Infectious Disease Modelling, 2017, 2, 128-142.	1.2	205
24	The evolution of plant virus transmission pathways. Journal of Theoretical Biology, 2016, 396, 75-89.	0.8	30
25	Power law incidence rate in epidemic models. Physics of Life Reviews, 2016, 18, 98-99.	1.5	1
26	Free-virus and cell-to-cell transmission in models of equine infectious anemia virus infection. Mathematical Biosciences, 2015, 270, 237-248.	0.9	15
27	Continuous-Time and Continuous-State Branching Processes. , 2015, , 29-35.		0
28	Applications of Multi-Type Branching Processes. , 2015, , 21-27.		0
29	Impact of Variability in Stochastic Models of Bacteria-Phage Dynamics Applicable to Phage Therapy. Stochastic Analysis and Applications, 2014, 32, 427-449.	0.9	8
30	A stochastic model for transmission, extinction and outbreak of Escherichia coli O157:H7 in cattle as affected by ambient temperature and cleaning practices. Journal of Mathematical Biology, 2014, 69, 501-532.	0.8	16
31	Probability of a Disease Outbreak in Stochastic Multipatch Epidemic Models. Bulletin of Mathematical Biology, 2013, 75, 1157-1180.	0.9	56
32	Extinction thresholds in deterministic and stochastic epidemic models. Journal of Biological Dynamics, 2012, 6, 590-611.	0.8	117
33	Stochastic models for competing species with a shared pathogen. Mathematical Biosciences and Engineering, 2012, 9, 461-485.	1.0	12
34	Basic stochastic models for viral infection within a host. Mathematical Biosciences and Engineering, 2012, 9, 915-935.	1.0	6
35	Stochastic models for virus and immune system dynamics. Mathematical Biosciences, 2011, 234, 84-94.	0.9	85
36	Comparison of Markov Chain and Stochastic Differential Equation Population Models Under Higher-Order Moment Closure Approximations. Stochastic Analysis and Applications, 2010, 28, 907-927.	0.9	15

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37	The basic reproduction number in epidemic models with periodic demographics. Journal of Biological Dynamics, 2009, 3, 116-129.	0.8	41
38	A habitat-based model for the spread of hantavirus between reservoir and spillover species. Journal of Theoretical Biology, 2009, 260, 510-522.	0.8	29
39	Estimating watershed area for playas in the Southern High Plains, USA. Wetlands, 2009, 29, 387-395.	0.7	8
40	Construction of Equivalent Stochastic Differential Equation Models. Stochastic Analysis and Applications, 2008, 26, 274-297.	0.9	134
41	An Introduction to Stochastic Epidemic Models. Lecture Notes in Mathematics, 2008, , 81-130.	0.1	222
42	Disease emergence in multi-host epidemic models. Mathematical Medicine and Biology, 2007, 24, 17-34.	0.8	31
43	Multi-patch deterministic and stochastic models for wildlife diseases. Journal of Biological Dynamics, 2007, 1, 63-85.	0.8	41
44	Establishing a beachhead: A stochastic population model with an Allee effect applied to species invasion. Theoretical Population Biology, 2007, 71, 290-300.	0.5	48
45	Mathematical Models for Hantavirus Infection in Rodents. Bulletin of Mathematical Biology, 2006, 68, 511-524.	0.9	49
46	Stochastic epidemic models with a backward bifurcation. Mathematical Biosciences and Engineering, 2006, 3, 445-458.	1.0	45
47	Population extinction in discrete-time stochastic population models with an Allee effect. Journal of Difference Equations and Applications, 2005, 11, 273-293.	0.7	46
48	A comparison of persistence-time estimation for discrete and continuous stochastic population models that include demographic and environmental variability. Mathematical Biosciences, 2005, 196, 14-38.	0.9	28
49	Coexistence of multiple pathogen strains in stochastic epidemic models with density-dependent mortality. Bulletin of Mathematical Biology, 2004, 66, 841-864.	0.9	35
50	Competitive exclusion and coexistence for pathogens in an epidemic model with variable population size. Journal of Mathematical Biology, 2003, 47, 153-168.	0.8	67
51	A comparison of three different stochastic population models with regard to persistence time. Theoretical Population Biology, 2003, 64, 439-449.	0.5	100
52	The dynamics of two viral infections in a single host population with applications to hantavirus. Mathematical Biosciences, 2003, 186, 191-217.	0.9	58
53	Population Extinction and Quasi-stationary Behavior in Stochastic Density-dependent Structured Models. Bulletin of Mathematical Biology, 2000, 62, 199-228.	0.9	21
54	Dispersal and competition models for plants. Journal of Mathematical Biology, 1996, 34, 455-481.	0.8	40

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55	Dispersal and competition models for plants. Journal of Mathematical Biology, 1996, 34, 455-481.	0.8	8
56	Persistence, extinction, and critical patch number for island populations. Journal of Mathematical Biology, 1987, 24, 617-625.	0.8	79
57	Persistence and extinction in single-species reaction-diffusion models. Bulletin of Mathematical Biology, 1983, 45, 209-227.	0.9	80