MartÃn LÃ³pez-GarcÃa

List of Publications by Year
in descending order

45 papers	452 citations	840728 11 h-index	839512 18 g-index
49 all docs	49 docs citations	49 times ranked	411 citing authors

#	Article	IF	Citations
1	Modeling fomiteâ€mediated SARSâ€CoVâ€2 exposure through personal protective equipment doffing in a hospital environment. Indoor Air, 2022, 32, .	4.3	10
2	Modeling the factors that influence exposure to SARSâ€CoVâ€2 on a subway train carriage. Indoor Air, 2022, 32, e12976.	4.3	19
3	Effect of Relative Humidity on Transfer of Aerosol-Deposited Artificial and Human Saliva from Surfaces to Artificial Finger-Pads. Viruses, 2022, 14, 1048.	3.3	6
4	Why is mock care not a good proxy for predicting hand contamination during patient care?. Journal of Hospital Infection, 2021, 109, 44-51.	2.9	8
5	Effects of patient room layout on viral accruement on healthcare professionals' hands. Indoor Air, 2021, 31, 1657-1672.	4.3	5
6	On time-discretized versions of the stochastic SIS epidemic model: a comparative analysis. Journal of Mathematical Biology, 2021, 82, 46.	1.9	2
7	Competitive binding of STATs to receptor phospho-Tyr motifs accounts for altered cytokine responses. ELife, 2021, 10, .	6.0	21
8	Integrating CFD and exposure modeling for estimating viral exposures at the air-surface interface. , 2021, , .		0
9	A Stochastic Intracellular Model of Anthrax Infection With Spore Germination Heterogeneity. Frontiers in Immunology, 2021, 12, 688257.	4.8	4
10	Analysis of Single Bacterium Dynamics inÂa Stochastic Model of Toxin-Producing Bacteria. Lecture Notes in Computer Science, 2021, , 210-225.	1.3	0
11	Simulation-based Evaluation of the Reliability of Bayesian Hierarchical Models for sc-RNAseq Data. , 2021, , .		0
12	Quantification of Type I Interferon Inhibition by Viral Proteins: Ebola Virus as a Case Study. Viruses, 2021, 13, 2441.	3.3	1
13	Evaluating a transfer gradient assumption in a fomite-mediated microbial transmission model using an experimental and Bayesian approach. Journal of the Royal Society Interface, 2020, 17, 20200121.	3.4	20
14	On First-Passage Times and Sojourn Times in Finite QBD Processes and Their Applications in Epidemics. Mathematics, 2020, 8, 1718.	2.2	7
15	Bacterial transfer to fingertips during sequential surface contacts with and without gloves. Indoor Air, 2020, 30, 993-1004.	4.3	25
16	Stochastic dynamics of Francisella tularensis infection and replication. PLoS Computational Biology, 2020, 16, e1007752.	3.2	6
17	COVID-19 and use of non-traditional masks: how do various materials compare in reducing the risk of infection for mask wearers?. Journal of Hospital Infection, 2020, 105, 640-642.	2.9	42
18	On Exact and Approximate Approaches for Stochastic Receptor-Ligand Competition Dynamicsâ€"An Ecological Perspective. Mathematics, 2020, 8, 1014.	2.2	0

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19	Quantification of Ebola virus replication kinetics in vitro. PLoS Computational Biology, 2020, 16, e1008375.	3.2	10
20	Stochastic dynamics of Francisella tularensis infection and replication. , 2020, 16, e1007752.		0
21	Stochastic dynamics of Francisella tularensis infection and replication. , 2020, 16, e1007752.		0
22	Stochastic dynamics of Francisella tularensis infection and replication. , 2020, 16, e1007752.		0
23	Stochastic dynamics of Francisella tularensis infection and replication. , 2020, 16, e1007752.		0
24	Fate of a Naive T Cell: A Stochastic Journey. Frontiers in Immunology, 2019, 10, 194.	4.8	7
25	A Multicompartment SIS Stochastic Model with Zonal Ventilation for the Spread of Nosocomial Infections: Detection, Outbreak Management, and Infection Control. Risk Analysis, 2019, 39, 1825-1842.	2.7	17
26	Exact analysis of summary statistics for continuous-time discrete-state Markov processes on networks using graph-automorphism lumping. Applied Network Science, 2019, 4, .	1.5	9
27	Perturbation analysis in finite LDâ€QBD processes and applications to epidemic models. Numerical Linear Algebra With Applications, 2018, 25, e2160.	1.6	19
28	A Within-Host Stochastic Model for Nematode Infection. Mathematics, 2018, 6, 143.	2.2	0
29	Quantifying the phosphorylation timescales of receptorâ€"ligand complexes: a Markovian matrix-analytic approach. Open Biology, 2018, 8, 180126.	3.6	7
30	A Novel Stochastic Multi-Scale Model of Francisella tularensis Infection to Predict Risk of Infection in a Laboratory. Frontiers in Microbiology, 2018, 9, 1165.	3.5	7
31	First passage events in biological systems with non-exponential inter-event times. Scientific Reports, 2018, 8, 15054.	3.3	14
32	A unified stochastic modelling framework for the spread of nosocomial infections. Journal of the Royal Society Interface, 2018, 15, 20180060.	3.4	15
33	Role of genetic heterogeneity in determining the epidemiological severity of H1N1 influenza. PLoS Computational Biology, 2018, 14, e1006069.	3.2	14
34	Stochastic descriptors to study the fate and potential of naive TÂcell clonotypes in the periphery. Journal of Mathematical Biology, 2017, 74, 673-708.	1.9	10
35	IL-2 Stimulation of Regulatory TÂCells: A Stochastic and Algorithmic Approach. Contributions in Mathematical and Computational Sciences, 2017, , 81-105.	0.3	1
36	On SIR epidemic models with generally distributed infectious periods: Number of secondary cases and probability of infection. International Journal of Biomathematics, 2017, 10, 1750024.	2.9	13

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37	Stochastic descriptors in an SIR epidemic model for heterogeneous individuals in small networks. Mathematical Biosciences, 2016, 271, 42-61.	1.9	27
38	Lifetime and reproduction of a marked individual in a two-species competition process. Applied Mathematics and Computation, 2015, 264, 223-245.	2.2	7
39	A stochastic SIS epidemic model with heterogeneous contacts. Physica A: Statistical Mechanics and Its Applications, 2015, 421, 78-97.	2.6	36
40	Control strategies for a stochastic model of hostâ€"parasite interaction in a seasonal environment. Journal of Theoretical Biology, 2014, 354, 1-11.	1.7	6
41	Maximum queue lengths during a fixed time interval in the M/M/c retrial queue. Applied Mathematics and Computation, 2014, 235, 124-136.	2.2	7
42	Modeling host-parasitoid interactions with correlated events. Applied Mathematical Modelling, 2013, 37, 5452-5463.	4.2	3
43	MAXIMUM POPULATION SIZES IN HOSTâ€"PARASITOID MODELS. International Journal of Biomathematics, 2013, 06, 1350002.	2.9	5
44	On the number of births and deaths during an extinction cycle, and the survival of a certain individual in a competition process. Computers and Mathematics With Applications, 2012, 64, 236-259.	2.7	9
45	Extinction times and size of the surviving species in a two-species competition process. Journal of Mathematical Biology, 2012, 64, 255-289.	1.9	25