

# Martn Lpez-Garca

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

278  
citations

10  
h-index

14  
g-index

49  
ext. papers

363  
ext. citations

4.1  
avg, IF

4.03  
L-index

#	Paper	IF	Citations
44	A stochastic SIS epidemic model with heterogeneous contacts. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2015</b> , 421, 78-97	3.3	29
43	COVID-19 and use of non-traditional masks: how do various materials compare in reducing the risk of infection for mask wearers?. <i>Journal of Hospital Infection</i> , <b>2020</b> , 105, 640-642	6.9	26
42	Stochastic descriptors in an SIR epidemic model for heterogeneous individuals in small networks. <i>Mathematical Biosciences</i> , <b>2016</b> , 271, 42-61	3.9	24
41	Extinction times and size of the surviving species in a two-species competition process. <i>Journal of Mathematical Biology</i> , <b>2012</b> , 64, 255-89	2	20
40	Bacterial transfer to fingertips during sequential surface contacts with and without gloves. <i>Indoor Air</i> , <b>2020</b> , 30, 993-1004	5.4	14
39	Evaluating a transfer gradient assumption in a fomite-mediated microbial transmission model using an experimental and Bayesian approach. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200121	4.1	14
38	Perturbation analysis in finite LD-QBD processes and applications to epidemic models. <i>Numerical Linear Algebra With Applications</i> , <b>2018</b> , 25, e2160	1.6	12
37	A unified stochastic modelling framework for the spread of nosocomial infections. <i>Journal of the Royal Society Interface</i> , <b>2018</b> , 15,	4.1	11
36	A Multicompartment SIS Stochastic Model with Zonal Ventilation for the Spread of Nosocomial Infections: Detection, Outbreak Management, and Infection Control. <i>Risk Analysis</i> , <b>2019</b> , 39, 1825-1842	3.9	10
35	Role of genetic heterogeneity in determining the epidemiological severity of H1N1 influenza. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006069	5	10
34	On the number of births and deaths during an extinction cycle, and the survival of a certain individual in a competition process. <i>Computers and Mathematics With Applications</i> , <b>2012</b> , 64, 236-259	2.7	9
33	On SIR epidemic models with generally distributed infectious periods: Number of secondary cases and probability of infection. <i>International Journal of Biomathematics</i> , <b>2017</b> , 10, 1750024	1.8	8
32	Exact analysis of summary statistics for continuous-time discrete-state Markov processes on networks using graph-automorphism lumping. <i>Applied Network Science</i> , <b>2019</b> , 4,	2.9	8
31	Stochastic descriptors to study the fate and potential of naive T cell clonotypes in the periphery. <i>Journal of Mathematical Biology</i> , <b>2017</b> , 74, 673-708	2	7
30	First passage events in biological systems with non-exponential inter-event times. <i>Scientific Reports</i> , <b>2018</b> , 8, 15054	4.9	7
29	Fate of a Naive T Cell: A Stochastic Journey. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 194	8.4	6
28	Lifetime and reproduction of a marked individual in a two-species competition process. <i>Applied Mathematics and Computation</i> , <b>2015</b> , 264, 223-245	2.7	6

27	Modelling the risk of SARS-CoV-2 infection through PPE doffing in a hospital environment		6
26	Quantifying the phosphorylation timescales of receptor-ligand complexes: a Markovian matrix-analytic approach. <i>Open Biology</i> , <b>2018</b> , 8,	7	6
25	Control strategies for a stochastic model of host-parasite interaction in a seasonal environment. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 354, 1-11	2.3	5
24	Maximum queue lengths during a fixed time interval in the M/M/c retrial queue. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 235, 124-136	2.7	5
23	A Novel Stochastic Multi-Scale Model of Infection to Predict Risk of Infection in a Laboratory. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1165	5.7	5
22	Modeling fomite-mediated SARS-CoV-2 exposure through personal protective equipment doffing in a hospital environment. <i>Indoor Air</i> , <b>2021</b> ,	5.4	4
21	Competitive binding of STATs to receptor phospho-Tyr motifs accounts for altered cytokine responses. <i>ELife</i> , <b>2021</b> , 10,	8.9	4
20	Modeling host-parasitoid interactions with correlated events. <i>Applied Mathematical Modelling</i> , <b>2013</b> , 37, 5452-5463	4.5	3
19	MAXIMUM POPULATION SIZES IN HOST-PARASITOID MODELS. <i>International Journal of Biomathematics</i> , <b>2013</b> , 06, 1350002	1.8	3
18	Modeling the factors that influence exposure to SARS-CoV-2 on a subway train carriage.. <i>Indoor Air</i> , <b>2022</b> , e12976	5.4	3
17	Why is mock care not a good proxy for predicting hand contamination during patient care?. <i>Journal of Hospital Infection</i> , <b>2021</b> , 109, 44-51	6.9	3
16	On First-Passage Times and Sojourn Times in Finite QBD Processes and Their Applications in Epidemics. <i>Mathematics</i> , <b>2020</b> , 8, 1718	2.3	2
15	Stochastic dynamics of Francisella tularensis infection and replication. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007752	5	2
14	Quantification of Ebola virus replication kinetics in vitro. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008375		2
13	IL-2 Stimulation of Regulatory T Cells: A Stochastic and Algorithmic Approach. <i>Contributions in Mathematical and Computational Sciences</i> , <b>2017</b> , 81-105		1
12	Effects of patient room layout on viral accrument on healthcare professionals hands. <i>Indoor Air</i> , <b>2021</b> , 31, 1657-1672	5.4	1
11	On time-discretized versions of the stochastic SIS epidemic model: a comparative analysis. <i>Journal of Mathematical Biology</i> , <b>2021</b> , 82, 46	2	1
10	Effect of Relative Humidity on Transfer of Aerosol-Deposited Artificial and Human Saliva from Surfaces to Artificial Finger-Pads. <i>Viruses</i> , <b>2022</b> , 14, 1048	6.2	1

- 9 A Stochastic Intracellular Model of Anthrax Infection With Spore Germination Heterogeneity. *Frontiers in Immunology*, **2021**, 12, 688257 8.4 ○
- 8 On Exact and Approximate Approaches for Stochastic Receptor-Ligand Competition Dynamics An Ecological Perspective. *Mathematics*, **2020**, 8, 1014 2.3
- 7 Analysis of Single Bacterium Dynamics in a Stochastic Model of Toxin-Producing Bacteria. *Lecture Notes in Computer Science*, **2021**, 210-225 0.9
- 6 A Stochastic SVIR Model with Imperfect Vaccine and External Source of Infection. *Lecture Notes in Computer Science*, **2021**, 197-209 0.9
- 5 A Within-Host Stochastic Model for Nematode Infection. *Mathematics*, **2018**, 6, 143 2.3
- 4 Stochastic dynamics of Francisella tularensis infection and replication **2020**, 16, e1007752
- 3 Stochastic dynamics of Francisella tularensis infection and replication **2020**, 16, e1007752
- 2 Stochastic dynamics of Francisella tularensis infection and replication **2020**, 16, e1007752
- 1 Stochastic dynamics of Francisella tularensis infection and replication **2020**, 16, e1007752