

# Daniel Lopez Codina

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

929  
citations

471509

17  
h-index

477307

29  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1414  
citing authors

#	ARTICLE	IF	CITATIONS
1	INDISIM, An Individual-based Discrete Simulation Model to Study Bacterial Cultures. <i>Journal of Theoretical Biology</i> , 2002, 214, 305-319.	1.7	97
2	Individual-based Modelling: An Essential Tool for Microbiology. <i>Journal of Biological Physics</i> , 2008, 34, 19-37.	1.5	77
3	CD5L Promotes M2 Macrophage Polarization through Autophagy-Mediated Upregulation of ID3. <i>Frontiers in Immunology</i> , 2018, 9, 480.	4.8	74
4	The Malaria System MicroApp: A New, Mobile Device-Based Tool for Malaria Diagnosis. <i>JMIR Research Protocols</i> , 2017, 6, e70.	1.0	70
5	Controlling Chaos in Ecology: From Deterministic to Individual-based Models. <i>Bulletin of Mathematical Biology</i> , 1999, 61, 1187-1207.	1.9	53
6	Individual-based modelling of microbial activity to study mineralization of C and N and nitrification process in soil. <i>Nonlinear Analysis: Real World Applications</i> , 2005, 6, 773-795.	1.7	49
7	Mathematical modelling methodologies in predictive food microbiology: A SWOT analysis. <i>International Journal of Food Microbiology</i> , 2009, 134, 2-8.	4.7	46
8	Individual-based modelling of bacterial cultures to study the microscopic causes of the lag phase. <i>Journal of Theoretical Biology</i> , 2006, 241, 939-953.	1.7	33
9	Analysis and IBM simulation of the stages in bacterial lag phase: Basis for an updated definition. <i>Journal of Theoretical Biology</i> , 2008, 252, 56-68.	1.7	31
10	Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 Infection Among Children in Summer Schools Applying Stringent Control Measures in Barcelona, Spain. <i>Clinical Infectious Diseases</i> , 2022, 74, 66-73.	5.8	26
11	Simulation modelling of bacterial growth in yoghurt. <i>International Journal of Food Microbiology</i> , 2002, 73, 415-425.	4.7	24
12	Empirical model for short-time prediction of COVID-19 spreading. <i>PLoS Computational Biology</i> , 2020, 16, e1008431.	3.2	23
13	Statistical aspects of biological organization. <i>Journal of Physics and Chemistry of Solids</i> , 1988, 49, 695-700.	4.0	22
14	Evolution and role of corded cell aggregation in <i>Mycobacterium tuberculosis</i> cultures. <i>Tuberculosis</i> , 2013, 93, 690-698.	1.9	22
15	Local Inflammation, Dissemination and Coalescence of Lesions Are Key for the Progression toward Active Tuberculosis: The Bubble Model. <i>Frontiers in Microbiology</i> , 2016, 7, 33.	3.5	22
16	Age-dependency of the Propagation Rate of Coronavirus Disease 2019 Inside School Bubble Groups in Catalonia, Spain. <i>Pediatric Infectious Disease Journal</i> , 2021, 40, 955-961.	2.0	22
17	Analysis of microcalorimetric curves for bacterial identification. <i>Canadian Journal of Microbiology</i> , 1987, 33, 6-11.	1.7	19
18	To Achieve an Earlier IFN- $\gamma$ Response Is Not Sufficient to Control <i>Mycobacterium tuberculosis</i> Infection in Mice. <i>PLoS ONE</i> , 2014, 9, e100830.	2.5	19

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19	Individual based simulations of bacterial growth on agar plates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 305, 604-618.	2.6	17
20	Self-organized criticality in Monte Carlo simulated ecosystems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 172, 56-61.	2.1	15
21	Dwelling the Telecare Home. <i>Space and Culture</i> , 2009, 12, 343-358.	0.9	15
22	Telecare research: (Cosmo)politicizing methodology. <i>Alter</i> , 2009, 3, 110-122.	0.9	15
23	Low Dose Aerosol Fitness at the Innate Phase of Murine Infection Better Predicts Virulence amongst Clinical Strains of <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2012, 7, e29010.	2.5	14
24	Flocculation in brewing yeasts: A computer simulation study. <i>BioSystems</i> , 2006, 83, 51-55.	2.0	12
25	Individual-based model and simulation of <i>Plasmodium falciparum</i> infected erythrocyte in vitro cultures. <i>Journal of Theoretical Biology</i> , 2007, 248, 448-459.	1.7	12
26	Discriminant analysis of microcalorimetric data of bacterial growth. <i>Canadian Journal of Microbiology</i> , 1988, 34, 1058-1062.	1.7	11
27	Effect of the haematocrit layer geometry on <i>Plasmodium falciparum</i> static thin-layer in vitro cultures. <i>Malaria Journal</i> , 2008, 7, 203.	2.3	9
28	Individual prevention and containment measures in schools in Catalonia, Spain, and community transmission of SARS-CoV-2 after school re-opening. <i>PLoS ONE</i> , 2022, 17, e0263741.	2.5	9
29	Individual-Based Modeling of Tuberculosis in a User-Friendly Interface: Understanding the Epidemiological Role of Population Heterogeneity in a City. <i>Frontiers in Microbiology</i> , 2015, 6, 1564.	3.5	8
30	Modelling the dynamics of tuberculosis lesions in a virtual lung: Role of the bronchial tree in endogenous reinfection. <i>PLoS Computational Biology</i> , 2020, 16, e1007772.	3.2	8
31	Risk Diagrams Based on Primary Care Electronic Medical Records and Linked Real-Time PCR Data to Monitor Local COVID-19 Outbreaks During the Summer 2020: A Prospective Study Including 7,671,862 People in Catalonia. <i>Frontiers in Public Health</i> , 2021, 9, 693956.	2.7	8
32	On Inscriptions and Ex-Inscriptions: The Production of Immediacy in a Home Telecare Service. <i>Environment and Planning D: Society and Space</i> , 2008, 26, 663-675.	3.4	7
33	Can systems immunology lead tuberculosis eradication?. <i>Current Opinion in Systems Biology</i> , 2018, 12, 53-60.	2.6	6
34	Monitoring and Analysis of COVID-19 Pandemic: The Need for an Empirical Approach. <i>Frontiers in Public Health</i> , 2021, 9, 633123.	2.7	6
35	Modeling tuberculosis in Barcelona. A solution to speed-up agent-based simulations. , 2015, , .		5
36	Analyzing Policymaking for Tuberculosis Control in Nigeria. <i>Complexity</i> , 2018, 2018, 1-13.	1.6	4

#	ARTICLE	IF	CITATIONS
37	A reaction-diffusion model to understand granulomas formation inside secondary lobule during tuberculosis infection. PLoS ONE, 2020, 15, e0239289.	2.5	3
38	Thermodynamic Concepts in the Study of Microbial Populations: Age Structure in Plasmodium falciparum Infected Red Blood Cells. PLoS ONE, 2011, 6, e26690.	2.5	2
39	Congenital and Blood Transfusion Transmission of Chagas Disease: A Framework Using Mathematical Modeling. Complexity, 2018, 2018, 1-10.	1.6	1
40	An Automatic System for Computing Malaria Parasite Density in Thin Blood Films. Lecture Notes in Computer Science, 2018, , 186-193.	1.3	0
41	Using Mathematical Modeling to Simulate Chagas Disease Spread by Congenital and Blood Transfusion Routes. , 2018, , .		0