Daniel Lopez Codina

List of Publications by Year
in descending order

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	Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 Infection Among Children in Summer Schools Applying Stringent Control Measures in Barcelona, Spain. Clinical Infectious Diseases, 2022, 74, 66-73.	5.8	26
2	Individual prevention and containment measures in schools in Catalonia, Spain, and community transmission of SARS-CoV-2 after school re-opening. PLoS ONE, 2022, 17, e0263741.	2.5	9
3	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. Frontiers in Public Health, 2021, 9, 693956.	2.7	8
4	Age-dependency of the Propagation Rate of Coronavirus Disease 2019 Inside School Bubble Groups in Catalonia, Spain. Pediatric Infectious Disease Journal, 2021, 40, 955-961.	2.0	22
5	Monitoring and Analysis of COVID-19 Pandemic: The Need for an Empirical Approach. Frontiers in Public Health, 2021, 9, 633123.	2.7	6
6	A reaction-diffusion model to understand granulomas formation inside secondary lobule during tuberculosis infection. PLoS ONE, 2020, 15, e0239289.	2.5	3
7	Modelling the dynamics of tuberculosis lesions in a virtual lung: Role of the bronchial tree in endogenous reinfection. PLoS Computational Biology, 2020, 16, e1007772.	3.2	8
8	Empirical model for short-time prediction of COVID-19 spreading. PLoS Computational Biology, 2020, 16, e1008431.	3.2	23
9	An Automatic System for Computing Malaria Parasite Density in Thin Blood Films. Lecture Notes in Computer Science, 2018, , 186-193.	1.3	0
10	Congenital and Blood Transfusion Transmission of Chagas Disease: A Framework Using Mathematical Modeling. Complexity, 2018, 2018, 1-10.	1.6	1
11	Analyzing Policymaking for Tuberculosis Control in Nigeria. Complexity, 2018, 2018, 1-13.	1.6	4
12	Can systems immunology lead tuberculosis eradication?. Current Opinion in Systems Biology, 2018, 12, 53-60.	2.6	6
13	Using Mathematical Modeling to Simulate Chagas Disease Spread by Congenital and Blood Transfusion Routes. , 2018, , .		0
14	CD5L Promotes M2 Macrophage Polarization through Autophagy-Mediated Upregulation of ID3. Frontiers in Immunology, 2018, 9, 480.	4.8	74
15	The Malaria System MicroApp: A New, Mobile Device-Based Tool for Malaria Diagnosis. JMIR Research Protocols, 2017, 6, e70.	1.0	70
16	Local Inflammation, Dissemination and Coalescence of Lesions Are Key for the Progression toward Active Tuberculosis: The Bubble Model. Frontiers in Microbiology, 2016, 7, 33.	3.5	22
17	Modeling tuberculosis in Barcelona. A solution to speed-up agent-based simulations. , 2015, , .		5
18	Individual-Based Modeling of Tuberculosis in a User-Friendly Interface: Understanding the Epidemiological Role of Population Heterogeneity in a City. Frontiers in Microbiology, 2015, 6, 1564.	3.5	8

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19	To Achieve an Earlier IFN-Î³ Response Is Not Sufficient to Control Mycobacterium tuberculosis Infection in Mice. PLoS ONE, 2014, 9, e100830.	2.5	19
20	Evolution and role of corded cell aggregation in Mycobacterium tuberculosis cultures. Tuberculosis, 2013, 93, 690-698.	1.9	22
21	Low Dose Aerosol Fitness at the Innate Phase of Murine Infection Better Predicts Virulence amongst Clinical Strains of Mycobacterium tuberculosis. PLoS ONE, 2012, 7, e29010.	2.5	14
22	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
23	Dwelling the Telecare Home. Space and Culture, 2009, 12, 343-358.	0.9	15
24	Mathematical modelling methodologies in predictive food microbiology: A SWOT analysis. International Journal of Food Microbiology, 2009, 134, 2-8.	4.7	46
25	Telecare research: (Cosmo)politicizing methodology. Alter, 2009, 3, 110-122.	0.9	15
26	Individual-based Modelling: An Essential Tool for Microbiology. Journal of Biological Physics, 2008, 34, 19-37.	1.5	77
27	Analysis and IbM simulation of the stages in bacterial lag phase: Basis for an updated definition. Journal of Theoretical Biology, 2008, 252, 56-68.	1.7	31
28	Effect of the haematocrit layer geometry on Plasmodium falciparum static thin-layer in vitro cultures. Malaria Journal, 2008, 7, 203.	2.3	9
29	On Inscriptions and Ex-Inscriptions: The Production of Immediacy in a Home Telecare Service. Environment and Planning D: Society and Space, 2008, 26, 663-675.	3.4	7
30	Individual-based model and simulation of Plasmodium falciparum infected erythrocyte in vitro cultures. Journal of Theoretical Biology, 2007, 248, 448-459.	1.7	12
31	Individual-based modelling of bacterial cultures to study the microscopic causes of the lag phase. Journal of Theoretical Biology, 2006, 241, 939-953.	1.7	33
32	Flocculation in brewing yeasts: A computer simulation study. BioSystems, 2006, 83, 51-55.	2.0	12
33	Individual-based modelling of microbial activity to study mineralization of C and N and nitrification process in soil. Nonlinear Analysis: Real World Applications, 2005, 6, 773-795.	1.7	49
34	Simulation modelling of bacterial growth in yoghurt. International Journal of Food Microbiology, 2002, 73, 415-425.	4.7	24
35	INDISIM, An Individual-based Discrete Simulation Model to Study Bacterial Cultures. Journal of Theoretical Biology, 2002, 214, 305-319.	1.7	97
36	Individual based simulations of bacterial growth on agar plates. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 604-618.	2.6	17

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37	Controlling Chaos in Ecology: From Deterministic to Individual-based Models. Bulletin of Mathematical Biology, 1999, 61, 1187-1207.	1.9	53
38	Self-organized criticality in Monte Carlo simulated ecosystems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 172, 56-61.	2.1	15
39	Statistical aspects of biological organization. Journal of Physics and Chemistry of Solids, 1988, 49, 695-700.	4.0	22
40	Discriminant analysis of microcalorimetric data of bacterial growth. Canadian Journal of Microbiology, 1988, 34, 1058-1062.	1.7	11
41	Analysis of microcalorimetric curves for bacterial identification. Canadian Journal of Microbiology, 1987, 33, 6-11.	1.7	19