

Clara Prats Soler

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

925
citations

471509

17
h-index

526287

27
g-index

58
all docs

58
docs citations

58
times ranked

1677
citing authors

#	ARTICLE	IF	CITATIONS
1	Individual-based Modelling: An Essential Tool for Microbiology. <i>Journal of Biological Physics</i> , 2008, 34, 19-37.	1.5	77
2	CD5L Promotes M2 Macrophage Polarization through Autophagy-Mediated Upregulation of ID3. <i>Frontiers in Immunology</i> , 2018, 9, 480.	4.8	74
3	The Malaria System MicroApp: A New, Mobile Device-Based Tool for Malaria Diagnosis. <i>JMIR Research Protocols</i> , 2017, 6, e70.	1.0	70
4	Mighty small: Observing and modeling individual microbes becomes big science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18027-18028.	7.1	54
5	Mathematical modelling methodologies in predictive food microbiology: A SWOT analysis. <i>International Journal of Food Microbiology</i> , 2009, 134, 2-8.	4.7	46
6	From Genes to Ecosystems in Microbiology: Modeling Approaches and the Importance of Individuality. <i>Frontiers in Microbiology</i> , 2017, 8, 2299.	3.5	37
7	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
8	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
9	A Microfluidics and Agent-Based Modeling Framework for Investigating Spatial Organization in Bacterial Colonies: The Case of <i>Pseudomonas Aeruginosa</i> and H1-Type VI Secretion Interactions. <i>Frontiers in Microbiology</i> , 2018, 9, 33.	3.5	30
10	Incidence and Impact of COVID-19 in MS. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2021, 8, .	6.0	29
11	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
12	Robust estimation of diagnostic rate and real incidence of COVID-19 for European policymakers. <i>PLoS ONE</i> , 2021, 16, e0243701.	2.5	25
13	Empirical model for short-time prediction of COVID-19 spreading. <i>PLoS Computational Biology</i> , 2020, 16, e1008431.	3.2	23
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	Exploring the lag phase and growth initiation of a yeast culture by means of an individual-based model. <i>Food Microbiology</i> , 2011, 28, 810-817.	4.2	20
18	To Achieve an Earlier IFN- γ 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	A Costâ€“Benefit Analysis of COVID-19 Vaccination in Catalonia. <i>Vaccines</i> , 2022, 10, 59.	4.4	19
20	The need for detailed COVID-19 data in Spain. <i>Lancet Public Health</i> , The, 2020, 5, e576.	10.0	18
21	The Small Breathing Amplitude at the Upper Lobes Favors the Attraction of Polymorphonuclear Neutrophils to Mycobacterium tuberculosis Lesions and Helps to Understand the Evolution toward Active Disease in An Individual-Based Model. <i>Frontiers in Microbiology</i> , 2016, 7, 354.	3.5	15
22	Low Dose Aerosol Fitness at the Innate Phase of Murine Infection Better Predicts Virulence amongst Clinical Strains of Mycobacterium tuberculosis. <i>PLoS ONE</i> , 2012, 7, e29010.	2.5	14
23	Origin of tuberculosis in the Paleolithic predicts unprecedented population growth and female resistance. <i>Scientific Reports</i> , 2020, 10, 42.	3.3	14
24	Schools as a Framework for COVID-19 Epidemiological Surveillance of Children in Catalonia, Spain: A Population-Based Study. <i>Frontiers in Pediatrics</i> , 2021, 9, 754744.	1.9	14
25	Editorial: The Individual Microbe: Single-Cell Analysis and Agent-Based Modelling. <i>Frontiers in Microbiology</i> , 2018, 9, 2825.	3.5	13
26	The impact of prioritisation and dosing intervals on the effects of COVID-19 vaccination in Europe: an agent-based cohort model. <i>Scientific Reports</i> , 2021, 11, 18812.	3.3	13
27	Individual-based model and simulation of Plasmodium falciparum infected erythrocyte in vitro cultures. <i>Journal of Theoretical Biology</i> , 2007, 248, 448-459.	1.7	12
28	Analysis of the effect of inoculum characteristics on the first stages of a growing yeast population in beer fermentations by means of an individual-based model. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011, 38, 153-165.	3.0	12
29	Individual-based modelling and simulation of microbial processes: yeast fermentation and multi-species composting. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2010, 16, 489-510.	2.2	11
30	Effect of the haematocrit layer geometry on Plasmodium falciparum static thin-layer in vitro cultures. <i>Malaria Journal</i> , 2008, 7, 203.	2.3	9
31	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
32	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
33	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
34	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
35	Cording Mycobacterium tuberculosis Bacilli Have a Key Role in the Progression towards Active Tuberculosis, Which is Stopped by Previous Immune Response. <i>Microorganisms</i> , 2020, 8, 228.	3.6	7
36	Can systems immunology lead tuberculosis eradication?. <i>Current Opinion in Systems Biology</i> , 2018, 12, 53-60.	2.6	6

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37	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
38	The Origin and Maintenance of Tuberculosis Is Explained by the Induction of Smear-Negative Disease in the Paleolithic. <i>Pathogens</i> , 2022, 11, 366.	2.8	6
39	Modeling tuberculosis in Barcelona. A solution to speed-up agent-based simulations. , 2015, , .		5
40	Symptom-Based Predictive Model of COVID-19 Disease in Children. <i>Viruses</i> , 2022, 14, 63.	3.3	5
41	Analyzing Policymaking for Tuberculosis Control in Nigeria. <i>Complexity</i> , 2018, 2018, 1-13.	1.6	4
42	A Bacterial Individual-Based Virtual Bioreactor to Test Handling Protocols in a Netlogo Platform. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 647-652.	0.4	3
43	A reaction-diffusion model to understand granulomas formation inside secondary lobule during tuberculosis infection. <i>PLoS ONE</i> , 2020, 15, e0239289.	2.5	3
44	Contribution of Individual-based Models in malaria elimination strategy design. <i>Malaria Journal</i> , 2010, 9, .	2.3	2
45	Thermodynamic Concepts in the Study of Microbial Populations: Age Structure in Plasmodium falciparum Infected Red Blood Cells. <i>PLoS ONE</i> , 2011, 6, e26690.	2.5	2
46	Spatial Properties in Individual-Based Modelling of Microbial Systems. <i>Study of the Composting Process.</i> , 0, , 461-465.		1
47	Congenital and Blood Transfusion Transmission of Chagas Disease: A Framework Using Mathematical Modeling. <i>Complexity</i> , 2018, 2018, 1-10.	1.6	1
48	Sensitivity Analysis And Individual-Based Models In The Study Of Yeast Populations. , 2011, , .		1
49	An Automatic System for Computing Malaria Parasite Density in Thin Blood Films. <i>Lecture Notes in Computer Science</i> , 2018, , 186-193.	1.3	0
50	Using Mathematical Modeling to Simulate Chagas Disease Spread by Congenital and Blood Transfusion Routes. , 2018, , .		0
51	Reply to Darcis et al. <i>Clinical Infectious Diseases</i> , 2021, , .	5.8	0