

# Clara Prats Soler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3065089/publications.pdf>

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	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
2	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
3	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
4	A Cost-Benefit Analysis of COVID-19 Vaccination in Catalonia. <i>Vaccines</i> , 2022, 10, 59.	4.4	19
5	Symptom-Based Predictive Model of COVID-19 Disease in Children. <i>Viruses</i> , 2022, 14, 63.	3.3	5
6	Incidence and Impact of COVID-19 in MS. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2021, 8, .	6.0	29
7	Reply to Darcis et al. <i>Clinical Infectious Diseases</i> , 2021, , .	5.8	0
8	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
9	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
10	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
11	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
12	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
13	Robust estimation of diagnostic rate and real incidence of COVID-19 for European policymakers. <i>PLoS ONE</i> , 2021, 16, e0243701.	2.5	25
14	The need for detailed COVID-19 data in Spain. <i>Lancet Public Health</i> , The, 2020, 5, e576.	10.0	18
15	A reaction-diffusion model to understand granulomas formation inside secondary lobule during tuberculosis infection. <i>PLoS ONE</i> , 2020, 15, e0239289.	2.5	3
16	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
17	Origin of tuberculosis in the Paleolithic predicts unprecedented population growth and female resistance. <i>Scientific Reports</i> , 2020, 10, 42.	3.3	14
18	Empirical model for short-time prediction of COVID-19 spreading. <i>PLoS Computational Biology</i> , 2020, 16, e1008431.	3.2	23

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Congenital and Blood Transfusion Transmission of Chagas Disease: A Framework Using Mathematical Modeling. <i>Complexity</i> , 2018, 2018, 1-10.	1.6	1
22	Analyzing Policymaking for Tuberculosis Control in Nigeria. <i>Complexity</i> , 2018, 2018, 1-13.	1.6	4
23	Editorial: The Individual Microbe: Single-Cell Analysis and Agent-Based Modelling. <i>Frontiers in Microbiology</i> , 2018, 9, 2825.	3.5	13
24	Can systems immunology lead tuberculosis eradication?. <i>Current Opinion in Systems Biology</i> , 2018, 12, 53-60.	2.6	6
25	Using Mathematical Modeling to Simulate Chagas Disease Spread by Congenital and Blood Transfusion Routes. , 2018, , .		0
26	CD5L Promotes M2 Macrophage Polarization through Autophagy-Mediated Upregulation of ID3. <i>Frontiers in Immunology</i> , 2018, 9, 480.	4.8	74
27	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
28	From Genes to Ecosystems in Microbiology: Modeling Approaches and the Importance of Individuality. <i>Frontiers in Microbiology</i> , 2017, 8, 2299.	3.5	37
29	The Malaria System MicroApp: A New, Mobile Device-Based Tool for Malaria Diagnosis. <i>JMIR Research Protocols</i> , 2017, 6, e70.	1.0	70
30	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
31	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
32	Modeling tuberculosis in Barcelona. A solution to speed-up agent-based simulations. , 2015, , .		5
33	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
34	To Achieve an Earlier IFN- $\gamma$ Response Is Not Sufficient to Control Mycobacterium tuberculosis Infection in Mice. <i>PLoS ONE</i> , 2014, 9, e100830.	2.5	19
35	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
36	Evolution and role of corded cell aggregation in Mycobacterium tuberculosis cultures. <i>Tuberculosis</i> , 2013, 93, 690-698.	1.9	22

#	ARTICLE	IF	CITATIONS
37	A Bacterial Individual-Based Virtual Bioreactor to Test Handling Protocols in a Netlogo Platform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 647-652.	0.4	3
38	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
39	Exploring the lag phase and growth initiation of a yeast culture by means of an individual-based model. Food Microbiology, 2011, 28, 810-817.	4.2	20
40	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. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 153-165.	3.0	12
41	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
42	Sensitivity Analysis And Individual-Based Models In The Study Of Yeast Populations. , 2011, , .		1
43	Contribution of Individual-based Models in malaria elimination strategy design. Malaria Journal, 2010, 9, .	2.3	2
44	Individual-based modelling and simulation of microbial processes: yeast fermentation and multi-species composting. Mathematical and Computer Modelling of Dynamical Systems, 2010, 16, 489-510.	2.2	11
45	Mathematical modelling methodologies in predictive food microbiology: A SWOT analysis. International Journal of Food Microbiology, 2009, 134, 2-8.	4.7	46
46	Individual-based Modelling: An Essential Tool for Microbiology. Journal of Biological Physics, 2008, 34, 19-37.	1.5	77
47	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
48	Effect of the haematocrit layer geometry on Plasmodium falciparum static thin-layer in vitro cultures. Malaria Journal, 2008, 7, 203.	2.3	9
49	Individual-based model and simulation of Plasmodium falciparum infected erythrocyte in vitro cultures. Journal of Theoretical Biology, 2007, 248, 448-459.	1.7	12
50	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
51	Spatial Properties in Individual-Based Modelling of Microbial Systems. Study of the Composting Process. , 0, , 461-465.		1