Joaquim Valls

List of Publications by Year
in descending order

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25 papers	734 citations	567281 15 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	535 citing authors

#	Article	IF	Citations
1	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
2	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
3	Modeling tuberculosis in Barcelona. A solution to speed-up agent-based simulations. , 2015, , .		5
4	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
5	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
6	Evolution and role of corded cell aggregation in Mycobacterium tuberculosis cultures. Tuberculosis, 2013, 93, 690-698.	1.9	22
7	Individual-based modelling of carbon and nitrogen dynamics in soils: Parameterization and sensitivity analysis of microbial components. Ecological Modelling, 2011, 222, 1998-2010.	2.5	30
8	Effect of the haematocrit layer geometry on Plasmodium falciparum static thin-layer in vitro cultures. Malaria Journal, 2008, 7, 203.	2.3	9
9	Individual-based model and simulation of Plasmodium falciparum infected erythrocyte in vitro cultures. Journal of Theoretical Biology, 2007, 248, 448-459.	1.7	12
10	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
11	Simulation modelling of bacterial growth in yoghurt. International Journal of Food Microbiology, 2002, 73, 415-425.	4.7	24
12	INDISIM, An Individual-based Discrete Simulation Model to Study Bacterial Cultures. Journal of Theoretical Biology, 2002, 214, 305-319.	1.7	97
13	Individual based simulations of bacterial growth on agar plates. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 604-618.	2.6	17
14	Nonequilibrium dynamics in lattice ecosystems: Chaotic stability and dissipative structures. Chaos, 1992, 2, 387-395.	2.5	46
15	Stability and complexity of spatially extended two-species competition. Journal of Theoretical Biology, 1992, 159, 469-480.	1.7	80
16	On structural stability and chaos in biological systems. Journal of Theoretical Biology, 1992, 155, 87-102.	1.7	60
17	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
18	Spiral waves, chaos and multiple attractors in lattice models of interacting populations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 166, 123-128.	2.1	111

#	Article	IF	Citations
19	Nonlinear phenomena and chaos in a Monte Carlo simulated microbial ecosystem. Bulletin of Mathematical Biology, 1992, 54, 939-955.	1.9	4
20	Characterization of spatiotemporal chaos from macroscopic measures. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 161, 241-246.	2.1	5
21	Order and chaos in a 2D Lotka-Volterra coupled map lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 153, 330-336.	2.1	49
22	Statistical aspects of biological organization. Journal of Physics and Chemistry of Solids, 1988, 49, 695-700.	4.0	22
23	Biological adaptation and the mathematical theory of information. Bulletin of Mathematical Biology, 1988, 50, 445-464.	1.9	8
24	The [extended] maximum entropy formalism and the statistical structure of ecosystems. Bulletin of Mathematical Biology, 1987, 49, 531-538.	1.9	10
25	Thermodynamic approach to biomass distribution in ecological systems. Bulletin of Mathematical Biology, 1983, 45, 869-872.	1.9	18