

Rafael Lahoz-Beltra

List of Publications by Year in descending order

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33
papers

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1040056

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839539

18
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33
all docs

33
docs citations

33
times ranked

327
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Genetic Algorithms for Computer Scientists. Computers, 2016, 5, 24.	3.3	60
2	Provenance of siliciclastic and hybrid turbiditic arenites of the Eocene Hecho Group, Spanish Pyrenees: implications for the tectonic evolution of a foreland basin. Basin Research, 2010, 22, 157-180.	2.7	43
3	Models for molecular computation: conformational automata in the cytoskeleton. Computer, 1992, 25, 30-39.	1.1	35
4	An AM Radio Receiver Designed With a Genetic Algorithm Based on a Bacterial Conjugation Genetic Operator. IEEE Transactions on Evolutionary Computation, 2008, 12, 129-142.	10.0	28
5	Cytoskeletal involvement in neuronal learning: a review. European Biophysics Journal, 1994, 23, 79-93.	2.2	26
6	Cellular "bauplans": Evolving unicellular forms by means of Julia sets and Pickover biomorphs. BioSystems, 2009, 98, 19-30.	2.0	18
7	Validation of laughter for diagnosis and evaluation of depression. Journal of Affective Disorders, 2014, 160, 43-49.	4.1	16
8	Learning and evolution in bacterial taxis: an operational amplifier circuit modeling the computational dynamics of the prokaryotic "two component system"™ protein network. BioSystems, 2004, 74, 29-49.	2.0	12
9	Behaviour of the cell walls of <i>Aspergillus niger</i> during the autolytic phase of growth. FEMS Microbiology Letters, 1986, 36, 265-268.	1.8	9
10	Molecular automata assembly: principles and simulation of bacterial membrane construction. BioSystems, 1997, 44, 209-229.	2.0	9
11	Bacterial computing: a form of natural computing and its applications. Frontiers in Microbiology, 2014, 5, 101.	3.5	9
12	Biometry of stomata in <i>Blechnum</i> species (Blechnaceae) with some taxonomic and ecological implications for the ferns. Revista De Biologia Tropical, 2011, 59, 403-15.	0.4	9
13	Evolving hardware as model of enzyme evolution. BioSystems, 2001, 61, 15-25.	2.0	8
14	Cheating for problem solving. , 2009, , .		7
15	Evolutionary Daisyworld models: A new approach to studying complex adaptive systems. Ecological Informatics, 2010, 5, 231-240.	5.2	7
16	A Gompertz regression model for fern spores germination. Anales Del Jardin Botanico De Madrid, 2015, 72, e015.	0.4	7
17	Plausibility of a Neural Network Classifier-Based Neuroprosthesis for Depression Detection via Laughter Records. Frontiers in Neuroscience, 2019, 13, 267.	2.8	6
18	An extended Moran process that captures the struggle for fitness. Mathematical Biosciences, 2019, 308, 81-104.	1.9	5

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19	Effect of temperature and dark pretreatment on the germination of three species of <i>Jamesonia</i> (Pteridaceae, Polypodiopsida). <i>Plant Species Biology</i> , 2011, 26, 254-258.	1.0	4
20	A Framework for Implementing Metaheuristic Algorithms Using Intercellular Communication. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 660148.	4.1	4
21	A model of quantum-von Neumann hybrid cellular automata: principles and simulation of quantum coherent superposition and decoherence in cytoskeletal microtubules. <i>Quantum Information and Computation</i> , 2015, 15, 22-36.	0.3	4
22	DESIGN AND DEVELOPMENT OF A VIRTUAL LABORATORY IN PYTHON FOR THE TEACHING OF DATA ANALYSIS AND MATHEMATICS IN GEOLOGY: GEOPY. <i>INTED Proceedings</i> , 2020, , .	0.0	4
23	LENNA (Learning Emotions Neural Network Assisted): An Empathic Chatbot Designed to Study the Simulation of Emotions in a Bot and Their Analysis in a Conversation. <i>Computers</i> , 2021, 10, 170.	3.3	4
24	Molecular automata modeling in structural biology. <i>Advances in Structural Biology</i> , 1999, 5, 85-101.	0.3	3
25	The Entropy of Laughter: Discriminative Power of Laughter's Entropy in the Diagnosis of Depression. <i>Entropy</i> , 2016, 18, 36.	2.2	3
26	An Evolutionary Computing Model for the Study of Within-Host Evolution. <i>Computation</i> , 2020, 8, 5.	2.0	3
27	Modelling Complex Populations Formed by Proliferating, Quiescent and Quasi-quiescent Cells: Application to Plant Root Meristems. <i>Journal of Theoretical Biology</i> , 2002, 215, 201-213.	1.7	2
28	Birkhoff's aesthetic ratio as a morphometric tool in the analysis of anatomical development of biological tree-like structures. <i>Zoomorphology</i> , 2013, 132, 67-80.	0.8	2
29	The 'crisis of noosphere' as a limiting factor to achieve the point of technological singularity. <i>Interdisciplinary Description of Complex Systems</i> , 2018, 16, 92-109.	0.6	2
30	Energy cost evaluation of computing capabilities in biomolecular and artificial matter. <i>Lecture Notes in Computer Science</i> , 1995, , 876-889.	1.3	2
31	The kinetics of the autolytic phase of growth in cultures of <i>Aspergillus niger</i> . <i>Mycopathologia</i> , 1986, 94, 75-78.	3.1	1
32	Connection weights based on molecular mechanisms in <i>Aplysia</i> neuron synapses. <i>Neurocomputing</i> , 1996, 11, 179-202.	5.9	1
33	Modeling, Simulation and Application of Bacterial Transduction in Genetic Algorithms. <i>Nature Precedings</i> , 2009, , .	0.1	0