

# Rafael Lahoz-Beltra

## List of Publications by Year in descending order

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33  
papers

353  
citations

1040056

9  
h-index

839539

18  
g-index

33  
all docs

33  
docs citations

33  
times ranked

327  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Framework for Implementing Metaheuristic Algorithms Using Intercellular Communication. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 660148.	4.1	4
2	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
3	An Evolutionary Computing Model for the Study of Within-Host Evolution. <i>Computation</i> , 2020, 8, 5.	2.0	3
4	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
5	Plausibility of a Neural Network Classifier-Based Neuroprosthesis for Depression Detection via Laughter Records. <i>Frontiers in Neuroscience</i> , 2019, 13, 267.	2.8	6
6	An extended Moran process that captures the struggle for fitness. <i>Mathematical Biosciences</i> , 2019, 308, 81-104.	1.9	5
7	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
8	The Entropy of Laughter: Discriminative Power of Laughter's Entropy in the Diagnosis of Depression. <i>Entropy</i> , 2016, 18, 36.	2.2	3
9	Quantum Genetic Algorithms for Computer Scientists. <i>Computers</i> , 2016, 5, 24.	3.3	60
10	A Gompertz regression model for fern spores germination. <i>Anales Del Jardin Botanico De Madrid</i> , 2015, 72, e015.	0.4	7
11	A model of quantum-von Neumann hybrid cellular automata: principles and simulation of quantum coherent superposition and dehoerence in cytoskeletal microtubules. <i>Quantum Information and Computation</i> , 2015, 15, 22-36.	0.3	4
12	Bacterial computing: a form of natural computing and its applications. <i>Frontiers in Microbiology</i> , 2014, 5, 101.	3.5	9
13	Validation of laughter for diagnosis and evaluation of depression. <i>Journal of Affective Disorders</i> , 2014, 160, 43-49.	4.1	16
14	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
15	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
16	Biometry of stomata in <i>Blechnum</i> species (Blechnaceae) with some taxonomic and ecological implications for the ferns. <i>Revista De Biologia Tropical</i> , 2011, 59, 403-15.	0.4	9
17	Provenance of siliciclastic and hybrid turbiditic arenites of the Eocene Hecho Group, Spanish Pyrenees: implications for the tectonic evolution of a foreland basin. <i>Basin Research</i> , 2010, 22, 157-180.	2.7	43
18	Evolutionary Daisyworld models: A new approach to studying complex adaptive systems. <i>Ecological Informatics</i> , 2010, 5, 231-240.	5.2	7

#	ARTICLE	IF	CITATIONS
19	Modeling, Simulation and Application of Bacterial Transduction in Genetic Algorithms. Nature Precedings, 2009, , .	0.1	0
20	Cheating for problem solving. , 2009, , .		7
21	Cellular "œbauplans" Evolving unicellular forms by means of Julia sets and Pickover biomorphs. BioSystems, 2009, 98, 19-30.	2.0	18
22	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
23	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
24	Modelling Complex Populations Formed by Proliferating, Quiescent and Quasi-quiescent Cells: Application to Plant Root Meristems. Journal of Theoretical Biology, 2002, 215, 201-213.	1.7	2
25	Evolving hardware as model of enzyme evolution. BioSystems, 2001, 61, 15-25.	2.0	8
26	Molecular automata modeling in structural biology. Advances in Structural Biology, 1999, 5, 85-101.	0.3	3
27	Molecular automata assembly: principles and simulation of bacterial membrane construction. BioSystems, 1997, 44, 209-229.	2.0	9
28	Connection weights based on molecular mechanisms in Aplysia neuron synapses. Neurocomputing, 1996, 11, 179-202.	5.9	1
29	Energy cost evaluation of computing capabilities in biomolecular and artificial matter. Lecture Notes in Computer Science, 1995, , 876-889.	1.3	2
30	Cytoskeletal involvement in neuronal learning: a review. European Biophysics Journal, 1994, 23, 79-93.	2.2	26
31	Models for molecular computation: conformational automata in the cytoskeleton. Computer, 1992, 25, 30-39.	1.1	35
32	The kinetics of the autolytic phase of growth in cultures of Aspergillus niger. Mycopathologia, 1986, 94, 75-78.	3.1	1
33	Behaviour of the cell walls of Aspergillus niger during the autolytic phase of growth. FEMS Microbiology Letters, 1986, 36, 265-268.	1.8	9