

VÃ-ctor M EguÃ-luz

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

9,763
citations

57719

44
h-index

37183

96
g-index

132
all docs

132
docs citations

132
times ranked

9539
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid evolution of SARS-CoV-2 challenges human defenses. <i>Scientific Reports</i> , 2022, 12, 6457.	1.6	18
2	Global collision-risk hotspots of marine traffic and the world's largest fish, the whale shark. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117440119.	3.3	26
3	Inequalities in COVID-19 inequalities research: Who had the capacity to respond?. <i>PLoS ONE</i> , 2022, 17, e0266132.	1.1	3
4	Host-association as major driver of microbiome structure and composition in Red Sea seagrass ecosystems. <i>Environmental Microbiology</i> , 2021, 23, 2021-2034.	1.8	9
5	Design of Deployment Strategies to Monitor the Movement of Animals with Passive Electronic Devices. <i>Sensors</i> , 2021, 21, 326.	2.1	0
6	Editorial: Fundamentals and Applications of AI: An Interdisciplinary Perspective. <i>Frontiers in Physics</i> , 2021, 8, .	1.0	0
7	The global network of ports supporting high seas fishing. <i>Science Advances</i> , 2021, 7, .	4.7	11
8	The soundscape of the Anthropocene ocean. <i>Science</i> , 2021, 371, .	6.0	376
9	A standardisation framework for bio-logging data to advance ecological research and conservation. <i>Methods in Ecology and Evolution</i> , 2021, 12, 996-1007.	2.2	39
10	Modelling the Impact of Robotics on Infectious Spread Among Healthcare Workers. <i>Frontiers in Robotics and AI</i> , 2021, 8, 652685.	2.0	3
11	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. <i>Biological Conservation</i> , 2021, 263, 109175.	1.9	96
12	Reply to: Caution over the use of ecological big data for conservation. <i>Nature</i> , 2021, 595, E20-E28.	13.7	4
13	Reply to: Shark mortality cannot be assessed by fishery overlap alone. <i>Nature</i> , 2021, 595, E8-E16.	13.7	7
14	Comprehensive analytical approaches reveal species-specific search strategies in sympatric apex predatory sharks. <i>Ecography</i> , 2021, 44, 1544-1556.	2.1	2
15	Sequencing effort dictates gene discovery in marine microbial metagenomes. <i>Environmental Microbiology</i> , 2020, 22, 4589-4603.	1.8	13
16	Robustness to extinction and plasticity derived from mutualistic bipartite ecological networks. <i>Scientific Reports</i> , 2020, 10, 9783.	1.6	16
17	Risk of Secondary Infection Waves of COVID-19 in an Insular Region: The Case of the Balearic Islands, Spain. <i>Frontiers in Medicine</i> , 2020, 7, 563455.	1.2	9
18	Global spatial risk assessment of sharks under the footprint of fisheries. <i>Nature</i> , 2019, 572, 461-466.	13.7	254

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19	Host-dependent nitrogen recycling as a mechanism of symbiont control in <i>Aiptasia</i> . <i>PLoS Genetics</i> , 2019, 15, e1008189.	1.5	73
20	Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	127
21	Can Fish and Cell Phones Teach Us about Our Health?. <i>ACS Sensors</i> , 2019, 4, 2566-2570.	4.0	2
22	Overhauling Ocean Spatial Planning to Improve Marine Megafauna Conservation. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	65
23	Extinction-induced community reorganization in bipartite networks. <i>Applied Network Science</i> , 2019, 4, .	0.8	1
24	The importance of sample size in marine megafauna tagging studies. <i>Ecological Applications</i> , 2019, 29, e01947.	1.8	86
25	Particle velocity controls phase transitions in contagion dynamics. <i>Scientific Reports</i> , 2019, 9, 6463.	1.6	14
26	Scaling of species distribution explains the vast potential marine prokaryote diversity. <i>Scientific Reports</i> , 2019, 9, 18710.	1.6	8
27	Convergence of marine megafauna movement patterns in coastal and open oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3072-3077.	3.3	103
28	Rare symbionts may contribute to the resilience of coral-algal assemblages. <i>ISME Journal</i> , 2018, 12, 161-172.	4.4	174
29	Unveiling noiseless clusters in complex quantum networks. <i>Npj Quantum Information</i> , 2018, 4, .	2.8	22
30	From Continuous to Discontinuous Transitions in Social Diffusion. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	13
31	How Big Data Fast Tracked Human Mobility Research and the Lessons for Animal Movement Ecology. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	44
32	The Ecology of Human Mobility. <i>Trends in Ecology and Evolution</i> , 2017, 32, 198-210.	4.2	44
33	Dynamical leaps due to microscopic changes in multilayer networks. <i>Europhysics Letters</i> , 2017, 117, 48004.	0.7	1
34	The Arctic Ocean as a dead end for floating plastics in the North Atlantic branch of the Thermohaline Circulation. <i>Science Advances</i> , 2017, 3, e1600582.	4.7	417
35	Influence of a patient transfer network of US inpatient facilities on the incidence of nosocomial infections. <i>Scientific Reports</i> , 2017, 7, 2930.	1.6	23
36	Epidemic Threshold in Temporally-Switching Networks. <i>Theoretical Biology</i> , 2017, , 161-177.	0.0	31

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37	Big data analyses reveal patterns and drivers of the movements of southern elephant seals. Scientific Reports, 2017, 7, 112.	1.6	33
38	Plant survival and keystone pollinator species in stochastic coextinction models: role of intrinsic dependence on animal-pollination. Scientific Reports, 2017, 7, 6915.	1.6	36
39	Risk of Coinfection Outbreaks in Temporal Networks: A Case Study of a Hospital Contact Network. Frontiers in Physics, 2017, 5, .	1.0	11
40	Spread of Pathogens in the Patient Transfer Network of US Hospitals. Lecture Notes in Computer Science, 2017, , 271-280.	1.0	3
41	Analysing human mobility patterns of hiking activities through complex network theory. PLoS ONE, 2017, 12, e0177712.	1.1	12
42	Collective Intelligence: Aggregation of Information from Neighbors in a Guessing Game. PLoS ONE, 2016, 11, e0153586.	1.1	4
43	Dynamical origins of the community structure of an online multi-layer society. New Journal of Physics, 2016, 18, 083045.	1.2	24
44	Temporal interactions facilitate endemicity in the susceptible-infected-susceptible epidemic model. New Journal of Physics, 2016, 18, 073013.	1.2	29
45	A quantitative assessment of Arctic shipping in 2010â€“2014. Scientific Reports, 2016, 6, 30682.	1.6	140
46	Comparing the modeling of delay propagation in the US and European air traffic networks. Journal of Air Transport Management, 2016, 56, 12-18.	2.4	49
47	Competition in the presence of aging: dominance, coexistence, and alternation between states. Scientific Reports, 2016, 6, 21128.	1.6	12
48	Percolation-based precursors of transitions in extended systems. Scientific Reports, 2016, 6, 29552.	1.6	15
49	Key Questions in Marine Megafauna Movement Ecology. Trends in Ecology and Evolution, 2016, 31, 463-475.	4.2	397
50	Semantic Space as a Metapopulation System: Modelling the Wikipedia Information Flow Network. Understanding Complex Systems, 2016, , 133-151.	0.3	0
51	Noise in coevolving networks. Physical Review E, 2015, 92, 032803.	0.8	21
52	Bayesian Decision Making in Human Collectives with Binary Choices. PLoS ONE, 2015, 10, e0121332.	1.1	14
53	Slowing down of linear consensus dynamics on temporal networks: some theoretical extensions**We acknowledge financial support provided by CREST, JST, VolkswagenStiftung, and MINECO (Spain) and FEDER (EU) through the MODASS project (No. FIS2011-24785).. IFAC-PapersOnLine, 2015, 48, 187-192.	0.5	1
54	Diversification and biodiversity dynamics of hot and cold spots. Ecography, 2015, 38, 393-401.	2.1	8

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55	Anomalous scaling in an age-dependent branching model. <i>Physical Review E</i> , 2015, 91, 022803.	0.8	6
56	Entangling Mobility and Interactions in Social Media. <i>PLoS ONE</i> , 2014, 9, e92196.	1.1	70
57	Anomalous Shattered Fragmentation Transition in the Coevolving Multiplex. , 2014, , .		0
58	Is the Voter Model a Model for Voters?. <i>Physical Review Letters</i> , 2014, 112, 158701.	2.9	162
59	Absorbing and shattered fragmentation transitions in multilayer coevolution. <i>Physical Review E</i> , 2014, 89, 062818.	0.8	51
60	Disentangling the Influence of Mutation and Migration in Clonal Seagrasses Using the Genetic Diversity Spectrum for Microsatellites. <i>Journal of Heredity</i> , 2014, 105, 532-541.	1.0	28
61	Characterization of Delay Propagation in the US Air-Transportation Network. <i>Transportation Journal</i> , 2014, 53, 330-344.	0.3	31
62	Temporal Networks: Slowing Down Diffusion by Long Lasting Interactions. <i>Physical Review Letters</i> , 2013, 111, 188701.	2.9	116
63	Distinguishing topical and social groups based on common identity and bond theory. , 2013, , .		32
64	Systemic delay propagation in the US airport network. <i>Scientific Reports</i> , 2013, 3, 1159.	1.6	138
65	Timing Interactions in Social Simulations: The Voter Model. <i>Understanding Complex Systems</i> , 2013, , 331-352.	0.3	8
66	Dynamics in Online Social Networks. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2013, , 3-17.	0.4	2
67	Heterogeneity shapes groups growth in social online communities. <i>Europhysics Letters</i> , 2012, 97, 28002.	0.7	9
68	Dynamics of link states in complex networks: The case of a majority rule. <i>Physical Review E</i> , 2012, 86, 066113.	0.8	10
69	Signal integration enhances the dynamic range in neuronal systems. <i>Physical Review E</i> , 2012, 85, 040902.	0.8	20
70	A measure of individual role in collective dynamics. <i>Scientific Reports</i> , 2012, 2, 292.	1.6	136
71	Genetic flow directionality and geographical segregation in a <i>Cymodocea nodosa</i> genetic diversity network. <i>EPJ Data Science</i> , 2012, 1, .	1.5	14
72	MODELING TWO-LANGUAGE COMPETITION DYNAMICS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1250048.	0.9	46

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73	Social Features of Online Networks: The Strength of Intermediary Ties in Online Social Media. PLoS ONE, 2012, 7, e29358.	1.1	198
74	Viability and Resilience in the Dynamics of Language Competition. Understanding Complex Systems, 2011, , 39-73.	0.3	4
75	Wikipedia Information Flow Analysis Reveals the Scale-Free Architecture of the Semantic Space. PLoS ONE, 2011, 6, e17333.	1.1	46
76	Scaling properties of protein family phylogenies. BMC Evolutionary Biology, 2011, 11, 155.	3.2	11
77	Structural and functional networks in complex systems with delay. Physical Review E, 2011, 83, 056113.	0.8	18
78	Extracting directed information flow networks: An application to genetics and semantics. Physical Review E, 2011, 83, 026103.	0.8	10
79	Phase clustering in complex networks of delay-coupled oscillators. Chaos, 2011, 21, 025111.	1.0	12
80	Update rules and interevent time distributions: Slow ordering versus no ordering in the voter model. Physical Review E, 2011, 84, 015103.	0.8	50
81	Effect of the Topology and Delayed Interactions in Neuronal Networks Synchronization. PLoS ONE, 2011, 6, e19900.	1.1	50
82	Threshold Learning Dynamics in Social Networks. PLoS ONE, 2011, 6, e20207.	1.1	32
83	Spontaneous ordering against an external field in non-equilibrium systems. New Journal of Physics, 2010, 12, 013010.	1.2	35
84	Viability and Resilience of Languages in Competition. PLoS ONE, 2010, 5, e8681.	1.1	19
85	SIMPLE MODELS FOR SCALING IN PHYLOGENETIC TREES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 805-811.	0.7	7
86	Broad lifetime distributions for ordering dynamics in complex networks. Physical Review E, 2009, 79, 016109.	0.8	28
87	CRITICAL BEHAVIOR IN AN EVOLUTIONARY ULTIMATUM GAME WITH SOCIAL STRUCTURE. International Journal of Modeling, Simulation, and Scientific Computing, 2009, 12, 221-232.	0.9	18
88	Conservation laws for voter-like models on random directed networks. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P10024.	0.9	22
89	Collective Phenomena in Complex Social Networks. Understanding Complex Systems, 2009, , 189-199.	0.3	0
90	Generic Absorbing Transition in Coevolution Dynamics. Physical Review Letters, 2008, 100, 108702.	2.9	207

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91	MODELLING LANGUAGE COMPETITION: BILINGUALISM AND COMPLEX SOCIAL NETWORKS. , 2008, , .		7
92	Network analysis identifies weak and strong links in a metapopulation system. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18824-18829.	3.3	152
93	Analytical solution of the voter model on uncorrelated networks. New Journal of Physics, 2008, 10, 063011.	1.2	137
94	Universal Scaling in the Branching of the Tree of Life. PLoS ONE, 2008, 3, e2757.	1.1	30
95	TAKING WITTGENSTEIN SERIOUSLY: INDICATORS OF THE EVOLUTION OF LANGUAGE. , 2008, , .		1
96	Evolutionary and Ecological Trees and Networks. AIP Conference Proceedings, 2007, , .	0.3	3
97	Time-scale competition leading to fragmentation and recombination transitions in the coevolution of network and states. Physical Review E, 2007, 76, 046120.	0.8	62
98	Homophily, Cultural Drift, and the Co-Evolution of Cultural Groups. Journal of Conflict Resolution, 2007, 51, 905-929.	1.1	341
99	Spectrum of genetic diversity and networks of clonal organisms. Journal of the Royal Society Interface, 2007, 4, 1093-1102.	1.5	72
100	Cascade dynamics of complex propagation. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 449-456.	1.2	288
101	Microscopic Abrams&Strogatz model of language competition. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 835-842.	1.2	68
102	The Fate of Bilingualism in a Model of Language Competition. , 2007, , 83-94.		11
103	Ordering dynamics with two non-excluding options: bilingualism in language competition. New Journal of Physics, 2006, 8, 308-308.	1.2	129
104	Analysis of attachment models for directory and file trees. Physica D: Nonlinear Phenomena, 2006, 224, 149-155.	1.3	3
105	Cooperation, social networks, and the emergence of leadership in a prisoner&TM's dilemma with adaptive local interactions. Physical Review E, 2005, 72, 056118.	0.8	263
106	Scaling in the Structure of Directory Trees in a Computer Cluster. Physical Review Letters, 2005, 95, 128701.	2.9	15
107	Scale-Free Brain Functional Networks. Physical Review Letters, 2005, 94, 018102.	2.9	1,239
108	Voter model dynamics in complex networks: Role of dimensionality, disorder, and degree distribution. Physical Review E, 2005, 72, 036132.	0.8	201

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109	Anticipated synchronization: A metaphorical linear view. Chaos, 2004, 14, 7-13.	1.0	32
110	Coevolution of dynamical states and interactions in dynamic networks. Physical Review E, 2004, 69, 065102.	0.8	449
111	Effective dimensions and percolation in hierarchically structured scale-free networks. Physical Review E, 2003, 68, 055102.	0.8	24
112	Global culture: A noise-induced transition in finite systems. Physical Review E, 2003, 67, 045101.	0.8	146
113	Nonequilibrium transitions in complex networks: A model of social interaction. Physical Review E, 2003, 67, 026120.	0.8	169
114	Highly clustered scale-free networks. Physical Review E, 2002, 65, 036123.	0.8	292
115	Growing scale-free networks with small-world behavior. Physical Review E, 2002, 65, 057102.	0.8	257
116	Epidemic Threshold in Structured Scale-Free Networks. Physical Review Letters, 2002, 89, 108701.	2.9	291
117	Quasiperiodic patterns in boundary-modulated excitable waves. Physical Review E, 2001, 64, 046208.	0.8	3
118	Complex Ginzburg-Landau equation in the presence of walls and corners. Physical Review E, 2001, 64, 036205.	0.8	11
119	Cooperation, Adaptation and the Emergence of Leadership. Lecture Notes in Economics and Mathematical Systems, 2001, , 73-86.	0.3	37
120	Cooperation in an Adaptive Network. International Journal of Modeling, Simulation, and Scientific Computing, 2000, 03, 283-297.	0.9	27
121	Transmission of Information and Herd Behavior: An Application to Financial Markets. Physical Review Letters, 2000, 85, 5659-5662.	2.9	243
122	“Sausage string” patterns in blood vessels at high blood pressures. , 1999, , 24-37.		0
123	Frozen spatial chaos induced by boundaries. Physical Review E, 1999, 60, 6571-6579.	0.8	18
124	Instability and “Sausage-String” Appearance in Blood Vessels during High Blood Pressure. Physical Review Letters, 1999, 82, 1995-1998.	2.9	22
125	BOUNDARY EFFECTS IN THE COMPLEX GINZBURG-LANDAU EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2209-2214.	0.7	24
126	DYNAMICS OF ELASTIC EXCITABLE MEDIA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2197-2202.	0.7	95