

Vã-ctor M Eguã-luz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7723354/publications.pdf>

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	Scale-Free Brain Functional Networks. <i>Physical Review Letters</i> , 2005, 94, 018102.	2.9	1,239
2	Coevolution of dynamical states and interactions in dynamic networks. <i>Physical Review E</i> , 2004, 69, 065102.	0.8	449
3	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
4	Key Questions in Marine Megafauna Movement Ecology. <i>Trends in Ecology and Evolution</i> , 2016, 31, 463-475.	4.2	397
5	The soundscape of the Anthropocene ocean. <i>Science</i> , 2021, 371, .	6.0	376
6	Homophily, Cultural Drift, and the Co-Evolution of Cultural Groups. <i>Journal of Conflict Resolution</i> , 2007, 51, 905-929.	1.1	341
7	Highly clustered scale-free networks. <i>Physical Review E</i> , 2002, 65, 036123.	0.8	292
8	Epidemic Threshold in Structured Scale-Free Networks. <i>Physical Review Letters</i> , 2002, 89, 108701.	2.9	291
9	Cascade dynamics of complex propagation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 374, 449-456.	1.2	288
10	Cooperation, social networks, and the emergence of leadership in a prisonerâ€™s dilemma with adaptive local interactions. <i>Physical Review E</i> , 2005, 72, 056118.	0.8	263
11	Growing scale-free networks with small-world behavior. <i>Physical Review E</i> , 2002, 65, 057102.	0.8	257
12	Global spatial risk assessment of sharks under the footprint of fisheries. <i>Nature</i> , 2019, 572, 461-466.	13.7	254
13	Transmission of Information and Herd Behavior: An Application to Financial Markets. <i>Physical Review Letters</i> , 2000, 85, 5659-5662.	2.9	243
14	Generic Absorbing Transition in Coevolution Dynamics. <i>Physical Review Letters</i> , 2008, 100, 108702.	2.9	207
15	Voter model dynamics in complex networks: Role of dimensionality, disorder, and degree distribution. <i>Physical Review E</i> , 2005, 72, 036132.	0.8	201
16	Social Features of Online Networks: The Strength of Intermediary Ties in Online Social Media. <i>PLoS ONE</i> , 2012, 7, e29358.	1.1	198
17	Rare symbionts may contribute to the resilience of coralâ€™algal assemblages. <i>ISME Journal</i> , 2018, 12, 161-172.	4.4	174
18	Nonequilibrium transitions in complex networks: A model of social interaction. <i>Physical Review E</i> , 2003, 67, 026120.	0.8	169

#	ARTICLE	IF	CITATIONS
19	Is the Voter Model a Model for Voters?. Physical Review Letters, 2014, 112, 158701.	2.9	162
20	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
21	Global culture: A noise-induced transition in finite systems. Physical Review E, 2003, 67, 045101.	0.8	146
22	A quantitative assessment of Arctic shipping in 2010–2014. Scientific Reports, 2016, 6, 30682.	1.6	140
23	Systemic delay propagation in the US airport network. Scientific Reports, 2013, 3, 1159.	1.6	138
24	Analytical solution of the voter model on uncorrelated networks. New Journal of Physics, 2008, 10, 063011.	1.2	137
25	A measure of individual role in collective dynamics. Scientific Reports, 2012, 2, 292.	1.6	136
26	Ordering dynamics with two non-excluding options: bilingualism in language competition. New Journal of Physics, 2006, 8, 308-308.	1.2	129
27	Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit. Frontiers in Marine Science, 2019, 6, .	1.2	127
28	Temporal Networks: Slowing Down Diffusion by Long Lasting Interactions. Physical Review Letters, 2013, 111, 188701.	2.9	116
29	Convergence of marine megafauna movement patterns in coastal and open oceans. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3072-3077.	3.3	103
30	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. Biological Conservation, 2021, 263, 109175.	1.9	96
31	DYNAMICS OF ELASTIC EXCITABLE MEDIA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2197-2202.	0.7	95
32	The importance of sample size in marine megafauna tagging studies. Ecological Applications, 2019, 29, e01947.	1.8	86
33	Host-dependent nitrogen recycling as a mechanism of symbiont control in Aiptasia. PLoS Genetics, 2019, 15, e1008189.	1.5	73
34	Spectrum of genetic diversity and networks of clonal organisms. Journal of the Royal Society Interface, 2007, 4, 1093-1102.	1.5	72
35	Entangling Mobility and Interactions in Social Media. PLoS ONE, 2014, 9, e92196.	1.1	70
36	Microscopic Abrams–Strogatz model of language competition. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 835-842.	1.2	68

#	ARTICLE	IF	CITATIONS
37	Overhauling Ocean Spatial Planning to Improve Marine Megafauna Conservation. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	65
38	Time-scale competition leading to fragmentation and recombination transitions in the coevolution of network and states. <i>Physical Review E</i> , 2007, 76, 046120.	0.8	62
39	Absorbing and shattered fragmentation transitions in multilayer coevolution. <i>Physical Review E</i> , 2014, 89, 062818.	0.8	51
40	Update rules and interevent time distributions: Slow ordering versus no ordering in the voter model. <i>Physical Review E</i> , 2011, 84, 015103.	0.8	50
41	Effect of the Topology and Delayed Interactions in Neuronal Networks Synchronization. <i>PLoS ONE</i> , 2011, 6, e19900.	1.1	50
42	Comparing the modeling of delay propagation in the US and European air traffic networks. <i>Journal of Air Transport Management</i> , 2016, 56, 12-18.	2.4	49
43	Wikipedia Information Flow Analysis Reveals the Scale-Free Architecture of the Semantic Space. <i>PLoS ONE</i> , 2011, 6, e17333.	1.1	46
44	MODELING TWO-LANGUAGE COMPETITION DYNAMICS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1250048.	0.9	46
45	The Ecology of Human Mobility. <i>Trends in Ecology and Evolution</i> , 2017, 32, 198-210.	4.2	44
46	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
47	A standardisation framework for bioâ€œlogging data to advance ecological research and conservation. <i>Methods in Ecology and Evolution</i> , 2021, 12, 996-1007.	2.2	39
48	Cooperation, Adaptation and the Emergence of Leadership. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2001, , 73-86.	0.3	37
49	Plant survival and keystone pollinator species in stochastic coextinction models: role of intrinsic dependence on animal-pollination. <i>Scientific Reports</i> , 2017, 7, 6915.	1.6	36
50	Spontaneous ordering against an external field in non-equilibrium systems. <i>New Journal of Physics</i> , 2010, 12, 013010.	1.2	35
51	Big data analyses reveal patterns and drivers of the movements of southern elephant seals. <i>Scientific Reports</i> , 2017, 7, 112.	1.6	33
52	Anticipated synchronization: A metaphorical linear view. <i>Chaos</i> , 2004, 14, 7-13.	1.0	32
53	Distinguishing topical and social groups based on common identity and bond theory. , 2013, , .		32
54	Threshold Learning Dynamics in Social Networks. <i>PLoS ONE</i> , 2011, 6, e20207.	1.1	32

#	ARTICLE	IF	CITATIONS
55	Characterization of Delay Propagation in the US Air-Transportation Network. <i>Transportation Journal</i> , 2014, 53, 330-344.	0.3	31
56	Epidemic Threshold in Temporally-Switching Networks. <i>Theoretical Biology</i> , 2017, , 161-177.	0.0	31
57	Universal Scaling in the Branching of the Tree of Life. <i>PLoS ONE</i> , 2008, 3, e2757.	1.1	30
58	Temporal interactions facilitate endemicity in the susceptible-infected-susceptible epidemic model. <i>New Journal of Physics</i> , 2016, 18, 073013.	1.2	29
59	Broad lifetime distributions for ordering dynamics in complex networks. <i>Physical Review E</i> , 2009, 79, 016109.	0.8	28
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	Cooperation in an Adaptive Network. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2000, 03, 283-297.	0.9	27
62	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
63	BOUNDARY EFFECTS IN THE COMPLEX GINZBURG-LANDAU EQUATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1999, 09, 2209-2214.	0.7	24
64	Effective dimensions and percolation in hierarchically structured scale-free networks. <i>Physical Review E</i> , 2003, 68, 055102.	0.8	24
65	Dynamical origins of the community structure of an online multi-layer society. <i>New Journal of Physics</i> , 2016, 18, 083045.	1.2	24
66	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
67	Instability and "Sausage-String" Appearance in Blood Vessels during High Blood Pressure. <i>Physical Review Letters</i> , 1999, 82, 1995-1998.	2.9	22
68	Conservation laws for voter-like models on random directed networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P10024.	0.9	22
69	Unveiling noiseless clusters in complex quantum networks. <i>Npj Quantum Information</i> , 2018, 4, .	2.8	22
70	Noise in coevolving networks. <i>Physical Review E</i> , 2015, 92, 032803.	0.8	21
71	Signal integration enhances the dynamic range in neuronal systems. <i>Physical Review E</i> , 2012, 85, 040902.	0.8	20
72	Viability and Resilience of Languages in Competition. <i>PLoS ONE</i> , 2010, 5, e8681.	1.1	19

#	ARTICLE	IF	CITATIONS
73	Frozen spatial chaos induced by boundaries. <i>Physical Review E</i> , 1999, 60, 6571-6579.	0.8	18
74	CRITICAL BEHAVIOR IN AN EVOLUTIONARY ULTIMATUM GAME WITH SOCIAL STRUCTURE. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2009, 12, 221-232.	0.9	18
75	Structural and functional networks in complex systems with delay. <i>Physical Review E</i> , 2011, 83, 056113.	0.8	18
76	Rapid evolution of SARS-CoV-2 challenges human defenses. <i>Scientific Reports</i> , 2022, 12, 6457.	1.6	18
77	Robustness to extinction and plasticity derived from mutualistic bipartite ecological networks. <i>Scientific Reports</i> , 2020, 10, 9783.	1.6	16
78	Scaling in the Structure of Directory Trees in a Computer Cluster. <i>Physical Review Letters</i> , 2005, 95, 128701.	2.9	15
79	Percolation-based precursors of transitions in extended systems. <i>Scientific Reports</i> , 2016, 6, 29552.	1.6	15
80	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
81	Bayesian Decision Making in Human Collectives with Binary Choices. <i>PLoS ONE</i> , 2015, 10, e0121332.	1.1	14
82	Particle velocity controls phase transitions in contagion dynamics. <i>Scientific Reports</i> , 2019, 9, 6463.	1.6	14
83	From Continuous to Discontinuous Transitions in Social Diffusion. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	13
84	Sequencing effort dictates gene discovery in marine microbial metagenomes. <i>Environmental Microbiology</i> , 2020, 22, 4589-4603.	1.8	13
85	Phase clustering in complex networks of delay-coupled oscillators. <i>Chaos</i> , 2011, 21, 025111.	1.0	12
86	Competition in the presence of aging: dominance, coexistence, and alternation between states. <i>Scientific Reports</i> , 2016, 6, 21128.	1.6	12
87	Analysing human mobility patterns of hiking activities through complex network theory. <i>PLoS ONE</i> , 2017, 12, e0177712.	1.1	12
88	Complex Ginzburg-Landau equation in the presence of walls and corners. <i>Physical Review E</i> , 2001, 64, 036205.	0.8	11
89	Scaling properties of protein family phylogenies. <i>BMC Evolutionary Biology</i> , 2011, 11, 155.	3.2	11
90	Risk of Coinfection Outbreaks in Temporal Networks: A Case Study of a Hospital Contact Network. <i>Frontiers in Physics</i> , 2017, 5, .	1.0	11

#	ARTICLE	IF	CITATIONS
91	The global network of ports supporting high seas fishing. <i>Science Advances</i> , 2021, 7, .	4.7	11
92	The Fate of Bilingualism in a Model of Language Competition. , 2007, , 83-94.		11
93	Extracting directed information flow networks: An application to genetics and semantics. <i>Physical Review E</i> , 2011, 83, 026103.	0.8	10
94	Dynamics of link states in complex networks: The case of a majority rule. <i>Physical Review E</i> , 2012, 86, 066113.	0.8	10
95	Heterogeneity shapes groups growth in social online communities. <i>Europhysics Letters</i> , 2012, 97, 28002.	0.7	9
96	Hostâ€ 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
97	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
98	Diversification and biodiversity dynamics of hot and cold spots. <i>Ecography</i> , 2015, 38, 393-401.	2.1	8
99	Scaling of species distribution explains the vast potential marine prokaryote diversity. <i>Scientific Reports</i> , 2019, 9, 18710.	1.6	8
100	Timing Interactions in Social Simulations: The Voter Model. <i>Understanding Complex Systems</i> , 2013, , 331-352.	0.3	8
101	MODELLING LANGUAGE COMPETITION: BILINGUALISM AND COMPLEX SOCIAL NETWORKS. , 2008, , .		7
102	SIMPLE MODELS FOR SCALING IN PHYLOGENETIC TREES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 805-811.	0.7	7
103	Reply to: Shark mortality cannot be assessed by fishery overlap alone. <i>Nature</i> , 2021, 595, E8-E16.	13.7	7
104	Anomalous scaling in an age-dependent branching model. <i>Physical Review E</i> , 2015, 91, 022803.	0.8	6
105	Viability and Resilience in the Dynamics of Language Competition. <i>Understanding Complex Systems</i> , 2011, , 39-73.	0.3	4
106	Collective Intelligence: Aggregation of Information from Neighbors in a Guessing Game. <i>PLoS ONE</i> , 2016, 11, e0153586.	1.1	4
107	Reply to: Caution over the use of ecological big data for conservation. <i>Nature</i> , 2021, 595, E20-E28.	13.7	4
108	Quasiperiodic patterns in boundary-modulated excitable waves. <i>Physical Review E</i> , 2001, 64, 046208.	0.8	3

#	ARTICLE	IF	CITATIONS
109	Analysis of attachment models for directory and file trees. <i>Physica D: Nonlinear Phenomena</i> , 2006, 224, 149-155.	1.3	3
110	Evolutionary and Ecological Trees and Networks. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	3
111	Modelling the Impact of Robotics on Infectious Spread Among Healthcare Workers. <i>Frontiers in Robotics and AI</i> , 2021, 8, 652685.	2.0	3
112	Spread of Pathogens in the Patient Transfer Network of US Hospitals. <i>Lecture Notes in Computer Science</i> , 2017, , 271-280.	1.0	3
113	Inequalities in COVID-19 inequalities research: Who had the capacity to respond?. <i>PLoS ONE</i> , 2022, 17, e0266132.	1.1	3
114	Can Fish and Cell Phones Teach Us about Our Health?. <i>ACS Sensors</i> , 2019, 4, 2566-2570.	4.0	2
115	Comprehensive analytical approaches reveal species-specific search strategies in sympatric apex predatory sharks. <i>Ecography</i> , 2021, 44, 1544-1556.	2.1	2
116	Dynamics in Online Social Networks. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2013, , 3-17.	0.4	2
117	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).. <i>IFAC-PapersOnLine</i> , 2015, 48, 187-192.	0.5	1
118	Dynamical leaps due to microscopic changes in multilayer networks. <i>Europhysics Letters</i> , 2017, 117, 48004.	0.7	1
119	Extinction-induced community reorganization in bipartite networks. <i>Applied Network Science</i> , 2019, 4, .	0.8	1
120	TAKING WITTGENSTEIN SERIOUSLY: INDICATORS OF THE EVOLUTION OF LANGUAGE. , 2008, , .		1
121	“Sausage string” patterns in blood vessels at high blood pressures. , 1999, , 24-37.		0
122	Anomalous Shattered Fragmentation Transition in the Coevolving Multiplex. , 2014, , .		0
123	Design of Deployment Strategies to Monitor the Movement of Animals with Passive Electronic Devices. <i>Sensors</i> , 2021, 21, 326.	2.1	0
124	Editorial: Fundamentals and Applications of AI: An Interdisciplinary Perspective. <i>Frontiers in Physics</i> , 2021, 8, .	1.0	0
125	Semantic Space as a Metapopulation System: Modelling the Wikipedia Information Flow Network. <i>Understanding Complex Systems</i> , 2016, , 133-151.	0.3	0
126	Collective Phenomena in Complex Social Networks. <i>Understanding Complex Systems</i> , 2009, , 189-199.	0.3	0