

Damião H Zanette

List of Publications by Year in descending order

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77
papers

3,582
citations

172457

29
h-index

133252

59
g-index

78
all docs

78
docs citations

78
times ranked

2390
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of rumor propagation on small-world networks. <i>Physical Review E</i> , 2002, 65, 041908.	2.1	432
2	Frequency stabilization in nonlinear micromechanical oscillators. <i>Nature Communications</i> , 2012, 3, 806.	12.8	307
3	Critical behavior of propagation on small-world networks. <i>Physical Review E</i> , 2001, 64, 050901.	2.1	284
4	Thermodynamics of Anomalous Diffusion. <i>Physical Review Letters</i> , 1995, 75, 366-369.	7.8	240
5	Fractal random walks from a variational formalism for Tsallis entropies. <i>Physical Review E</i> , 1994, 49, R956-R958.	2.1	193
6	Role of Intermittency in Urban Development: A Model of Large-Scale City Formation. <i>Physical Review Letters</i> , 1997, 79, 523-526.	7.8	148
7	Noise-induced breakdown of coherent collective motion in swarms. <i>Physical Review E</i> , 1999, 60, 4571-4575.	2.1	110
8	Infection Spreading in a Population with Evolving Contacts. <i>Journal of Biological Physics</i> , 2008, 34, 135-148.	1.5	109
9	Stochastic multiplicative processes with reset events. <i>Physical Review E</i> , 1999, 59, 4945-4948.	2.1	106
10	Direct observation of coherent energy transfer in nonlinear micromechanical oscillators. <i>Nature Communications</i> , 2017, 8, 15523.	12.8	92
11	Vertical transmission of culture and the distribution of family names. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 295, 1-8.	2.6	90
12	Contact switching as a control strategy for epidemic outbreaks. <i>Journal of Theoretical Biology</i> , 2009, 257, 52-60.	1.7	90
13	Coevolution of agents and networks: Opinion spreading and community disconnection. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 356, 89-94.	2.1	87
14	Effects of immunization in small-world epidemics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 309, 445-452.	2.6	82
15	Condensation in globally coupled populations of chaotic dynamical systems. <i>Physical Review E</i> , 1998, 57, 276-281.	2.1	78
16	Opinion spreading and agent segregation on evolving networks. <i>Physica D: Nonlinear Phenomena</i> , 2006, 224, 156-165.	2.8	65
17	Synchronization and frustration in oscillator networks with attractive and repulsive interactions. <i>Europhysics Letters</i> , 2005, 72, 190-196.	2.0	58
18	Universal Entropy of Word Ordering Across Linguistic Families. <i>PLoS ONE</i> , 2011, 6, e19875.	2.5	56

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19	Nonlinearity-Induced Synchronization Enhancement in Micromechanical Oscillators. <i>Physical Review Letters</i> , 2015, 114, 034103.	7.8	53
20	At the Boundary between Biological and Cultural Evolution: The Origin of Surname Distributions. <i>Journal of Theoretical Biology</i> , 2002, 216, 461-477.	1.7	44
21	Internal Resonance in a Vibrating Beam: A Zoo of Nonlinear Resonance Peaks. <i>PLoS ONE</i> , 2016, 11, e0162365.	2.5	43
22	Self-Sustained Micromechanical Oscillator with Linear Feedback. <i>Physical Review Letters</i> , 2016, 117, 017203.	7.8	40
23	Propagating structures in globally coupled systems with time delays. <i>Physical Review E</i> , 2000, 62, 3167-3172.	2.1	37
24	Vector opinion dynamics in a model for social influence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 329, 459-472.	2.6	36
25	Minorities in a model for opinion formation. <i>Complexity</i> , 2004, 9, 31-36.	1.6	35
26	Opinion Formation by Social Influence: From Experiments to Modeling. <i>PLoS ONE</i> , 2015, 10, e0140406.	2.5	33
27	Cooperative action of coherent groups in broadly heterogeneous populations of interacting chemical oscillators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10890-10894.	7.1	30
28	Synchronization in an array of globally coupled maps with delayed interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 325, 186-191.	2.6	29
29	Dynamics and nonequilibrium states in the Hamiltonian mean-field model: A closer look. <i>Physical Review E</i> , 2003, 67, 031105.	2.1	28
30	Synchronization of phase oscillators with heterogeneous coupling: A solvable case. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 818-828.	2.8	23
31	Duffing revisited: phase-shift control and internal resonance in self-sustained oscillators. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	20
32	Effects of noise on the internal resonance of a nonlinear oscillator. <i>Scientific Reports</i> , 2018, 8, 5976.	3.3	20
33	Emergent parametric resonances and time-crystal phases in driven Bardeen-Cooper-Schrieffer systems. <i>Physical Review Research</i> , 2021, 3, .	3.6	19
34	A note on non-thermodynamical applications of non-extensive statistics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 324, 383-387.	2.1	18
35	Synchronization and clustering of phase oscillators with heterogeneous coupling. <i>Europhysics Letters</i> , 2007, 77, 20001.	2.0	18
36	Propagation of small perturbations in synchronized oscillator networks. <i>Europhysics Letters</i> , 2004, 68, 356-362.	2.0	17

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37	Stability of two-mode internal resonance in a nonlinear oscillator. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	17
38	Energy exchange between coupled mechanical oscillators: linear regimes. <i>Journal of Physics Communications</i> , 2018, 2, 095015.	1.2	16
39	Thermal measurements of stationary nonequilibrium systems: a test for generalized thermostatistics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 316, 184-189.	2.1	13
40	Different regimes of synchronization in nonidentical time-delayed maps. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 325, 361-370.	2.6	11
41	Quantifying the complexity of black-and-white images. <i>PLoS ONE</i> , 2018, 13, e0207879.	2.5	11
42	SELF-SIMILARITY IN THE TAXONOMIC CLASSIFICATION OF HUMAN LANGUAGES. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2001, 04, 281-286.	1.4	9
43	Disturbing synchronization: Propagation of perturbations in networks of coupled oscillators. <i>European Physical Journal B</i> , 2005, 43, 97-108.	1.5	9
44	DEMOGRAPHIC GROWTH AND THE DISTRIBUTION OF LANGUAGE SIZES. <i>International Journal of Modern Physics C</i> , 2008, 19, 237-247.	1.7	9
45	Synchronization properties of self-sustained mechanical oscillators. <i>Physical Review E</i> , 2013, 87, 052910.	2.1	9
46	Fat tails and black swans: Exact results for multiplicative processes with resets. <i>Chaos</i> , 2020, 30, 033104.	2.5	9
47	Individual risk-aversion responses tune epidemics to critical transmissibility ($R = 1$). <i>Royal Society Open Science</i> , 2022, 9, 211667.	2.4	9
48	Critical phenomena in the spreading of opinion consensus and disagreement. <i>Papers in Physics</i> , 0, 6, 060003.	0.2	8
49	Interplay of noise and coupling in heterogeneous ensembles of phase oscillators. <i>European Physical Journal B</i> , 2009, 69, 269-273.	1.5	6
50	Role of Demographic Dynamics and Conflict in the Population-Area Relationship for Human Languages. <i>PLoS ONE</i> , 2012, 7, e40137.	2.5	6
51	Heaps's Law and Heaps functions in tagged texts: evidences of their linguistic relevance. <i>Royal Society Open Science</i> , 2020, 7, 200008.	2.4	6
52	Beyond networks: opinion formation in triplet-based populations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 3311-3319.	3.4	5
53	Evolutionary Dynamics of Resource Allocation in the Colonel Blotto Game. <i>Journal of Statistical Physics</i> , 2013, 151, 623-636.	1.2	5
54	Self-sustained oscillations with delayed velocity feedback. <i>Papers in Physics</i> , 0, 9, 090003.	0.2	5

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55	Adaptation to synchronization in phase-oscillator networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 5631-5638.	2.6	4
56	Statistical properties of model kinship networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 094008.	2.3	4
57	Sexually transmitted infections and the marriage problem. <i>European Physical Journal B</i> , 2009, 70, 557-565.	1.5	3
58	Synchronization of a forced self-sustained Duffing oscillator. <i>European Physical Journal: Special Topics</i> , 2014, 223, 2807-2817.	2.6	3
59	Cooperation within triplets in the rock-paper-scissors game. <i>European Physical Journal B</i> , 2014, 87, 1.	1.5	3
60	Coherent oscillations in word-use data from 1700 to 2008. <i>Palgrave Communications</i> , 2016, 2, .	4.7	3
61	Energy exchange in globally coupled mechanical phase oscillators. <i>Physical Review E</i> , 2020, 102, 012208.	2.1	3
62	Statistical properties and network structure of the marriage problem. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 380, 539-551.	2.6	2
63	Potential-partnership networks and the dynamical structure of monogamous populations. <i>European Physical Journal B</i> , 2010, 75, 373-379.	1.5	2
64	Critical transition induced by neighbourhood size in evolutionary spatial games. <i>European Physical Journal B</i> , 2011, 82, 361-366.	1.5	2
65	Bistatic Transfer Function for a Planar Distribution of Stationary Scatterers: Analytical Results. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 2326-2330.	3.1	2
66	Multistability of Globally Coupled Duffing Oscillators. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, 2150056.	1.7	2
67	Word frequency-rank relationship in tagged texts. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 574, 126020.	2.6	2
68	Collective behavior of coupled multiplicative processes with stochastic resetting. <i>Journal of Physics Complexity</i> , 2021, 2, 035020.	2.2	2
69	Multiplicative Processes and City Sizes. , 2008, , 457-472.		2
70	Complexity and Universality in the Long-Range Order of Words. <i>Lecture Notes in Morphogenesis</i> , 2016, , 27-41.	0.2	1
71	Energy flow and dissipation in heterogeneous ensembles of coupled phase oscillators. <i>European Physical Journal: Special Topics</i> , 0, , 1.	2.6	1
72	Articulating biological and cultural evolution. <i>Physics of Life Reviews</i> , 2013, 10, 416-417.	2.8	0

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73	Functional integral approach to the transfer function of a stochastic scattering channel. Waves in Random and Complex Media, 2020, 30, 722-737.	2.7	0
74	Stochastic effects on the bistatic transfer function of a planar scatterer distribution. Waves in Random and Complex Media, 2020, 30, 643-655.	2.7	0
75	Answer to the Commentary on "A note on the consensus time of mean-field majority-rule dynamics". Papers in Physics, 2009, 1, .	0.2	0
76	Reply to the Commentary on "Critical phenomena in the spreading of opinion consensus and disagreement". Papers in Physics, 2014, 6, .	0.2	0
77	Kinship networks in shrinking and growing populations. Physica A: Statistical Mechanics and Its Applications, 2021, , 126554.	2.6	0