

# Alvaro Corral

## List of Publications by Year in descending order

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74  
papers

3,073  
citations

230014

27  
h-index

182931

54  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lognormals, power laws and double power laws in the distribution of frequencies of harmonic codewords from classical music. <i>Scientific Reports</i> , 2022, 12, 2615.	1.6	7
2	Finite-time scaling for epidemic processes with power-law superspreading events. <i>Physical Review E</i> , 2022, 105, .	0.8	3
3	Tail of the distribution of fatalities in epidemics. <i>Physical Review E</i> , 2021, 103, 022315.	0.8	7
4	Heaps's law and vocabulary richness in the history of classical music harmony. <i>EPJ Data Science</i> , 2021, 10, .	1.5	2
5	Maximum Likelihood Estimation of Power-Law Exponents for Testing Universality in Complex Systems. <i>SEMA SIMAI Springer Series</i> , 2021, , 65-89.	0.4	0
6	Distinct flavors of Zipf's law and its maximum likelihood fitting: Rank-size and size-distribution representations. <i>Physical Review E</i> , 2020, 102, 052113.	0.8	17
7	No Significant Effect of Coulomb Stress on the Gutenberg-Richter Law after the Landers Earthquake. <i>Scientific Reports</i> , 2020, 10, 2901.	1.6	4
8	From Boltzmann to Zipf through Shannon and Jaynes. <i>Entropy</i> , 2020, 22, 179.	1.1	5
9	The Brevity Law as a Scaling Law, and a Possible Origin of Zipf's Law for Word Frequencies. <i>Entropy</i> , 2020, 22, 224.	1.1	17
10	Truncated lognormal distributions and scaling in the size of naturally defined population clusters. <i>Physical Review E</i> , 2020, 101, 042312.	0.8	13
11	Power Law Size Distributions in Geoscience Revisited. <i>Earth and Space Science</i> , 2019, 6, 673-697.	1.1	74
12	Probability estimation of a Carrington-like geomagnetic storm. <i>Scientific Reports</i> , 2019, 9, 2393.	1.6	17
13	Time window to constrain the corner value of the global seismic-moment distribution. <i>PLoS ONE</i> , 2019, 14, e0220237.	1.1	1
14	Universality of power-law exponents by means of maximum-likelihood estimation. <i>Physical Review E</i> , 2019, 100, 062106.	0.8	8
15	Increasing power-law range in avalanche amplitude and energy distributions. <i>Physical Review E</i> , 2018, 97, 022134.	0.8	11
16	Phase transition, scaling of moments, and order-parameter distributions in Brownian particles and branching processes with finite-size effects. <i>Physical Review E</i> , 2018, 97, 062156.	0.8	11
17	Finite-time scaling in local bifurcations. <i>Scientific Reports</i> , 2018, 8, 11783.	1.6	3
18	Deviation from power law of the global seismic moment distribution. <i>Scientific Reports</i> , 2017, 7, 40045.	1.6	18

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19	Dependence of exponents on text length versus finite-size scaling for word-frequency distributions. <i>Physical Review E</i> , 2017, 96, 022318.	0.8	8
20	Pressure Jumps during Drainage in Macroporous Soils. <i>Vadose Zone Journal</i> , 2017, 16, 1-12.	1.3	5
21	Exact Derivation of a Finite-Size Scaling Law and Corrections to Scaling in the Geometric Galton-Watson Process. <i>PLoS ONE</i> , 2016, 11, e0161586.	1.1	9
22	Avalanches and force drops in displacement-driven compression of porous glasses. <i>Physical Review E</i> , 2016, 94, 033005.	0.8	24
23	Testing universality in critical exponents: The case of rainfall. <i>Physical Review E</i> , 2016, 93, 042301.	0.8	5
24	Ranking and significance of variable-length similarity-based time series motifs. <i>Expert Systems With Applications</i> , 2016, 55, 452-460.	4.4	3
25	Large-Scale Analysis of Zipf's Law in English Texts. <i>PLoS ONE</i> , 2016, 11, e0147073.	1.1	74
26	Log-Log Convexity of Type-Token Growth in Zipf's Systems. <i>Physical Review Letters</i> , 2015, 114, 238701.	2.9	25
27	Zipf's Law for Word Frequencies: Word Forms versus Lemmas in Long Texts. <i>PLoS ONE</i> , 2015, 10, e0129031.	1.1	48
28	Scaling in the timing of extreme events. <i>Chaos, Solitons and Fractals</i> , 2015, 74, 99-112.	2.5	27
29	Lake Tutira paleoseismic record confirms random, moderate to major and/or great Hawke's Bay (New Zealand) earthquakes. <i>Journal of Great Lakes Research</i> , 2015, 41, 1-13.	1.1	13
30	Data-driven prediction of thresholded time series of rainfall and self-organized criticality models. <i>Physical Review E</i> , 2015, 91, 052808.	0.8	19
31	Finite-size scaling of survival probability in branching processes. <i>Physical Review E</i> , 2015, 91, 042122.	0.8	12
32	Scale invariant events and dry spells for medium-resolution local rain data. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 555-567.	0.6	24
33	Testing Universality and Goodness-of-Fit Test of Power-Law Distributions. <i>Trends in Mathematics</i> , 2014, , 13-18.	0.1	2
34	Stability of Strength and Weight Distributions for Time-Evolving Word Co-occurrence Networks. <i>Trends in Mathematics</i> , 2014, , 19-21.	0.1	0
35	Fitting and goodness-of-fit test of non-truncated and truncated power-law distributions. <i>Acta Geophysica</i> , 2013, 61, 1351-1394.	1.0	140
36	Statistical Similarity between the Compression of a Porous Material and Earthquakes. <i>Physical Review Letters</i> , 2013, 110, 088702.	2.9	213

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37	A scaling law beyond Zipf's law and its relation to Heaps' law. <i>New Journal of Physics</i> , 2013, 15, 093033.	1.2	46
38	Addendum: Universality of rain event size distributions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P06019.	0.9	1
39	Power-law distribution in encoded MFCC frames of speech, music, and environmental sound signals. , 2012, , .		2
40	Scaling behavior of the earthquake intertime distribution: Influence of large shocks and time scales in the Omori law. <i>Physical Review E</i> , 2012, 86, 066119.	0.8	18
41	Measuring the Evolution of Contemporary Western Popular Music. <i>Scientific Reports</i> , 2012, 2, 521.	1.6	111
42	Variability of North Atlantic Hurricanes: Seasonal Versus Individual-Event Features. <i>Geophysical Monograph Series</i> , 2012, , 111-125.	0.1	3
43	Zipf's Law in Short-Time Timbral Codings of Speech, Music, and Environmental Sound Signals. <i>PLoS ONE</i> , 2012, 7, e33993.	1.1	15
44	Noncharacteristic half-lives in radioactive decay. <i>Physical Review E</i> , 2011, 83, 066103.	0.8	22
45	Universality of rain event size distributions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P11030.	0.9	69
46	Scaling of tropical-cyclone dissipation. <i>Nature Physics</i> , 2010, 6, 693-696.	6.5	40
47	Tropical Cyclones as a Critical Phenomenon. , 2010, , 81-99.		6
48	Point-occurrence self-similarity in crackling-noise systems and in other complex systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P01022.	0.9	14
49	STATISTICAL TESTS FOR SCALING IN THE INTER-EVENT TIMES OF EARTHQUAKES IN CALIFORNIA. <i>International Journal of Modern Physics B</i> , 2009, 23, 5570-5582.	1.0	12
50	Scaling and correlations in the dynamics of forest-fire occurrence. <i>Physical Review E</i> , 2008, 77, 016101.	0.8	41
51	Structure of earthquake occurrence in space, time and magnitude. <i>Terra Nova</i> , 2007, 19, 337-343.	0.9	4
52	Comment on "Earthquakes Descaled: On Waiting Time Distributions and Scaling Laws". <i>Physical Review Letters</i> , 2006, 96, 109801; author reply 109802.	2.9	37
53	Dependence of earthquake recurrence times and independence of magnitudes on seismicity history. <i>Tectonophysics</i> , 2006, 424, 177-193.	0.9	78
54	Statistical Features of Earthquake Temporal Occurrence. <i>Lecture Notes in Physics</i> , 2006, , 191-221.	0.3	30

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55	Universal Earthquake-Occurrence Jumps, Correlations with Time, and Anomalous Diffusion. <i>Physical Review Letters</i> , 2006, 97, 178501.	2.9	84
56	Mixing of rescaled data and Bayesian inference for earthquake recurrence times. <i>Nonlinear Processes in Geophysics</i> , 2005, 12, 89-100.	0.6	33
57	Comment on "Do Earthquakes Exhibit Self-Organized Criticality?". <i>Physical Review Letters</i> , 2005, 95, 159801; discussion 159802.	2.9	25
58	Time-decreasing hazard and increasing time until the next earthquake. <i>Physical Review E</i> , 2005, 71, 017101.	0.8	52
59	Renormalization-Group Transformations and Correlations of Seismicity. <i>Physical Review Letters</i> , 2005, 95, 028501.	2.9	65
60	Calculation of the transition matrix and of the occupation probabilities for the states of the Oslo sandpile model. <i>Physical Review E</i> , 2004, 69, 026107.	0.8	9
61	Universal local versus unified global scaling laws in the statistics of seismicity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 590-597.	1.2	91
62	Long-Term Clustering, Scaling, and Universality in the Temporal Occurrence of Earthquakes. <i>Physical Review Letters</i> , 2004, 92, 108501.	2.9	488
63	Local distributions and rate fluctuations in a unified scaling law for earthquakes. <i>Physical Review E</i> , 2003, 68, 035102.	0.8	181
64	Anomalous transport in conical granular piles. <i>Physical Review E</i> , 2002, 66, 031305.	0.8	4
65	Self-Organized Networks of Competing Boolean Agents. <i>Physical Review Letters</i> , 2000, 84, 3185-3188.	2.9	108
66	Avalanche Merging and Continuous Flow in a Sandpile Model. <i>Physical Review Letters</i> , 1999, 83, 572-575.	2.9	40
67	Symmetries and fixed point stability of stochastic differential equations modeling self-organized criticality. <i>Physical Review E</i> , 1997, 55, 2434-2445.	0.8	21
68	Self-Organized Criticality Induced by Diversity. <i>Physical Review Letters</i> , 1997, 78, 1492-1495.	2.9	27
69	Long-Tailed Trapping Times and Lévy Flights in a Self-Organized Critical Granular System. <i>Physical Review Letters</i> , 1997, 78, 4950-4953.	2.9	56
70	Stability of spatio-temporal structures in a lattice model of pulse-coupled oscillators. <i>Physica D: Nonlinear Phenomena</i> , 1997, 103, 419-429.	1.3	7
71	ON SELF-ORGANIZED CRITICALITY AND SYNCHRONIZATION IN LATTICE MODELS OF COUPLED DYNAMICAL SYSTEMS. <i>International Journal of Modern Physics B</i> , 1996, 10, 1111-1151.	1.0	52
72	Tracer Dispersion in a Self-Organized Critical System. <i>Physical Review Letters</i> , 1996, 77, 107-110.	2.9	178

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73	Synchronization in a Lattice Model of Pulse-Coupled Oscillators. Physical Review Letters, 1995, 75, 3697-3700.	2.9	29
74	Self-Organized Criticality and Synchronization in a Lattice Model of Integrate-and-Fire Oscillators. Physical Review Letters, 1995, 74, 118-121.	2.9	105