

Haroldo V Ribeiro

List of Publications by Year in descending order

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94
papers

2,392
citations

201674
27
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98
all docs

98
docs citations

98
times ranked

1860
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient anomalous diffusion in heterogeneous media with stochastic resetting. Physica A: Statistical Mechanics and Its Applications, 2022, 588, 126560.	2.6	9
2	Determining liquid crystal properties with ordinal networks and machine learning. Chaos, Solitons and Fractals, 2022, 154, 111607.	5.1	19
3	Fractional Diffusion with Geometric Constraints: Application to Signal Decay in Magnetic Resonance Imaging (MRI). Mathematics, 2022, 10, 389.	2.2	5
4	Population density and spreading of COVID-19 in England and Wales. PLoS ONE, 2022, 17, e0261725.	2.5	8
5	Permutation Jensen-Shannon distance: A versatile and fast symbolic tool for complex time-series analysis. Physical Review E, 2022, 105, 045310.	2.1	14
6	ordpy: A Python package for data analysis with permutation entropy and ordinal network methods. Chaos, 2021, 31, 063110.	2.5	27
7	Association between productivity and journal impact across disciplines and career age. Physical Review Research, 2021, 3, .	3.6	15
8	Association between population distribution and urban GDP scaling. PLoS ONE, 2021, 16, e0245771.	2.5	15
9	Sorption-desorption, surface diffusion, and memory effects in a 3D system. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 113202.	2.3	0
10	Commuting network effect on urban wealth scaling. Scientific Reports, 2021, 11, 22918.	3.3	10
11	Gender difference in candidature processes for Brazilian elections. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122525.	2.6	3
12	City size and the spreading of COVID-19 in Brazil. PLoS ONE, 2020, 15, e0239699.	2.5	83
13	Rural-urban scaling of age, mortality, crime and property reveals a loss of expected self-similar behaviour. Scientific Reports, 2020, 10, 16863.	3.3	6
14	Mapping images into ordinal networks. Physical Review E, 2020, 102, 052312.	2.1	12
15	Learning physical properties of liquid crystals with deep convolutional neural networks. Scientific Reports, 2020, 10, 7664.	3.3	44
16	Anomalous diffusion and random search in xyz -comb: exact results. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 053203.	2.3	7
17	Anomalous diffusion and sorption-desorption process in complex fluid systems. Communications in Nonlinear Science and Numerical Simulation, 2020, 90, 105411.	3.3	2
18	Quenched and annealed disorder mechanisms in comb models with fractional operators. Physical Review E, 2020, 101, 022135.	2.1	18

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19	Collective dynamics of stock market efficiency. Scientific Reports, 2020, 10, 21992.	3.3	24
20	Effects of changing population or density on urban carbon dioxide emissions. Nature Communications, 2019, 10, 3204.	12.8	157
21	Characterizing stochastic time series with ordinal networks. Physical Review E, 2019, 100, 042304.	2.1	32
22	Extensions and solutions for nonlinear diffusion equations and random walks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190432.	2.1	14
23	Estimating physical properties from liquid crystal textures via machine learning and complexity-entropy methods. Physical Review E, 2019, 99, 013311.	2.1	36
24	Clustering patterns in efficiency and the coming-of-age of the cryptocurrency market. Scientific Reports, 2019, 9, 1440.	3.3	62
25	The hidden traits of endemic illiteracy in cities. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 566-574.	2.6	5
26	Crime prediction through urban metrics and statistical learning. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 435-443.	2.6	108
27	Characterization of time series via Rényi complexity-entropy curves. Physica A: Statistical Mechanics and Its Applications, 2018, 498, 74-85.	2.6	19
28	The dynamical structure of political corruption networks. Journal of Complex Networks, 2018, 6, 989-1003.	1.8	72
29	Nonlinear diffusion equation with reaction terms: Analytical and numerical results. Applied Mathematics and Computation, 2018, 330, 254-265.	2.2	4
30	A nonlinear Fokker-Planck equation approach for interacting systems: Anomalous diffusion and Tsallis statistics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1903-1907.	2.1	12
31	History of art paintings through the lens of entropy and complexity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8585-E8594.	7.1	76
32	Unveiling relationships between crime and property in England and Wales via density scale-adjusted metrics and network tools. PLoS ONE, 2018, 13, e0192931.	2.5	10
33	Ion Motion in Electrolytic Cells: Anomalous Diffusion Evidences. Journal of Physical Chemistry B, 2017, 121, 2882-2886.	2.6	17
34	Asymptotic behaviors of the Poisson-Nernst-Planck model, generalizations and best adjust of experimental data. Electrochimica Acta, 2017, 226, 40-45.	5.2	22
35	Characterizing time series via complexity-entropy curves. Physical Review E, 2017, 95, 062106.	2.1	57
36	Intermittent Motion, Nonlinear Diffusion Equation and Tsallis Formalism. Entropy, 2017, 19, 42.	2.2	11

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37	Fractional Calculus in Electrical Impedance Spectroscopy: Poisson " Nernst " Planck model and Extensions. International Journal of Electrochemical Science, 2017, , 11677-11691.	1.3	5
38	The Role of Fractional Time-Derivative Operators on Anomalous Diffusion. Frontiers in Physics, 2017, 5, .	2.1	126
39	Differences in Collaboration Patterns across Discipline, Career Stage, and Gender. PLoS Biology, 2016, 14, e1002573.	5.6	100
40	Transient Superdiffusion and Long-Range Correlations in the Motility Patterns of Trypanosomatid Flagellate Protozoa. PLoS ONE, 2016, 11, e0152092.	2.5	19
41	Extensive characterization of seismic laws in acoustic emissions of crumpled plastic sheets. Europhysics Letters, 2016, 114, 59002.	2.0	10
42	Fractional diffusion equations coupled by reaction terms. Physica A: Statistical Mechanics and Its Applications, 2016, 458, 9-16.	2.6	14
43	Discriminating image textures with the multiscale two-dimensional complexity-entropy causality plane. Chaos, Solitons and Fractals, 2016, 91, 679-688.	5.1	54
44	Anomalous diffusion and transport in heterogeneous systems separated by a membrane. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160502.	2.1	10
45	Characterization of river flow fluctuations via horizontal visibility graphs. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 1003-1011.	2.6	38
46	Solutions for a sorption process governed by a fractional diffusion equation. Physica A: Statistical Mechanics and Its Applications, 2016, 443, 32-41.	2.6	11
47	Rural to Urban Population Density Scaling of Crime and Property Transactions in English and Welsh Parliamentary Constituencies. PLoS ONE, 2016, 11, e0149546.	2.5	27
48	The Advantage of Playing Home in NBA: Microscopic, Team-Specific and Evolving Features. PLoS ONE, 2016, 11, e0152440.	2.5	34
49	Analogies Between the Cracking Noise of Ethanol-Dampened Charcoal and Earthquakes. Physical Review Letters, 2015, 115, 025503.	7.8	52
50	Results for an Electrolytic Cell Containing Two Groups of Ions: PNP - Model and Fractional Approach. , 2015, , 161-173.		0
51	Scale-Adjusted Metrics for Predicting the Evolution of Urban Indicators and Quantifying the Performance of Cities. PLoS ONE, 2015, 10, e0134862.	2.5	41
52	Unusual diffusing regimes caused by different adsorbing surfaces. Soft Matter, 2015, 11, 1658-1666.	2.7	29
53	Solutions for a $\frac{d^2 \phi}{dx^2} = -\phi$ xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.co."	2.6	10
54	We need more empirical investigations and model validation for a better understanding of crime. Physics of Life Reviews, 2015, 12, 36-37.	2.8	3

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55	Electrolytic cell containing different groups of ions with anomalous diffusion approach. Journal of Electroanalytical Chemistry, 2015, 746, 25-30.	3.8	4
56	Universal bursty behaviour in human violent conflicts. Scientific Reports, 2015, 4, 4773.	3.3	23
57	Spatial correlations, clustering and percolation-like transitions in homicide crimes. Europhysics Letters, 2015, 111, 18002.	2.0	18
58	Investigating the interplay between mechanisms of anomalous diffusion via fractional Brownian walks on a comb-like structure. New Journal of Physics, 2014, 16, 093050.	2.9	28
59	Exact solution for a diffusive process on a backbone structure: Green function approach and external force. , 2014, , 196-207.		0
60	Fractional diffusion equation, boundary conditions and surface effects. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P08019.	2.3	4
61	Empirical analysis on the connection between power-law distributions and allometries for urban indicators. Physica A: Statistical Mechanics and Its Applications, 2014, 409, 175-182.	2.6	25
62	Reaction on a solid surface supplied by an anomalous mass transfer source. Physica A: Statistical Mechanics and Its Applications, 2014, 410, 399-406.	2.6	13
63	Time dependent solutions for a fractional Schrödinger equation with delta potentials. Journal of Mathematical Physics, 2013, 54, 082107.	1.1	29
64	Diffusive process on a backbone structure with drift terms. Physical Review E, 2013, 87, 012121.	2.1	16
65	Scaling laws in the dynamics of crime growth rate. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2672-2679.	2.6	40
66	Long-range spatial correlations and fluctuation statistics of lightning activity rates in Brazil. Europhysics Letters, 2013, 104, 69001.	2.0	3
67	Antipersistent behavior of defects in a lyotropic liquid crystal during annihilation. Physical Review E, 2013, 87, 054501.	2.1	3
68	Engagement in the electoral processes: Scaling laws and the role of political positions. Physical Review E, 2013, 88, 024802.	2.1	18
69	Move-by-Move Dynamics of the Advantage in Chess Matches Reveals Population-Level Learning of the Game. PLoS ONE, 2013, 8, e54165.	2.5	12
70	First passage time for a diffusive process under a geometric constraint. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P09017.	2.3	6
71	Distance to the Scaling Law: A Useful Approach for Unveiling Relationships between Crime and Urban Metrics. PLoS ONE, 2013, 8, e69580.	2.5	71
72	Anomalous diffusion and long-range correlations in the score evolution of the game of cricket. Physical Review E, 2012, 86, 022102.	2.1	29

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73	Different diffusive regimes, generalized Langevin and diffusion equations. Physical Review E, 2012, 85, 011147.	2.1	33
74	Fractional Schrödinger equation with noninteger dimensions. Applied Mathematics and Computation, 2012, 219, 2313-2319.	2.2	17
75	Continuous Time Random Walk and different diffusive regimes. Acta Scientiarum - Technology, 2012, 34, .	0.4	4
76	Solutions for a fractional diffusion equation with noninteger dimensions. Nonlinear Analysis: Real World Applications, 2012, 13, 1955-1960.	1.7	13
77	Complexity-entropy causality plane: A useful approach for distinguishing songs. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2421-2428.	2.6	78
78	Complexity-Entropy Causality Plane as a Complexity Measure for Two-Dimensional Patterns. PLoS ONE, 2012, 7, e40689.	2.5	64
79	Spreading Patterns of the Influenza A (H1N1) Pandemic. PLoS ONE, 2011, 6, e17823.	2.5	10
80	Non-Markovian diffusion equation and diffusion in a porous catalyst. Chemical Engineering Journal, 2011, 172, 1083-1087.	12.7	22
81	On the dynamics of bubbles in boiling water. Chaos, Solitons and Fractals, 2011, 44, 178-183.	5.1	2
82	Anomalous diffusion in a symbolic model. Physica Scripta, 2011, 83, 045007.	2.5	2
83	The soundscape dynamics of human agglomeration. New Journal of Physics, 2011, 13, 023028.	2.9	5
84	Solutions for a diffusion equation with a backbone term. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P02022.	2.3	9
85	Scaling laws and universality in the choice of election candidates. Europhysics Letters, 2011, 96, 48001.	2.0	30
86	Exact propagator for a Fokker-Planck equation, first passage time distribution, and anomalous diffusion. Journal of Mathematical Physics, 2011, 52, 083301.	1.1	5
87	Universal patterns in sound amplitudes of songs and music genres. Physical Review E, 2011, 83, 017101.	2.1	11
88	Anomalous-diffusion approach applied to the electrical response of water. Physical Review E, 2011, 84, 041128.	2.1	43
89	Dynamics of tournaments: the soccer case. European Physical Journal B, 2010, 75, 327-334.	1.5	19
90	Solutions for a non-Markovian diffusion equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4193-4198.	2.1	15

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91	Earthquake-like patterns of acoustic emission in crumpled plastic sheets. Europhysics Letters, 2010, 92, 29001.	2.0	14
92	Continuous-time random walk as a guide to fractional Schrödinger equation. Journal of Mathematical Physics, 2010, 51, 092102.	1.1	16
93	Symbolic sequences and Tsallis entropy. Brazilian Journal of Physics, 2009, 39, 444-447.	1.4	5
94	Sobre a Detecção de Autocorrelações em Séries Temporais: Uma Comparação Objetiva entre Análise de Flutuações, Transformações Wavelet e Análise Entrópica. , 0, , .		0