

Grzegorz Sikora

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

472
citations

759233

12
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

367
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the Fitting of Anomalous Diffusion Mean Square Displacement Graphs from Single Particle Tracking Experiments. PLoS ONE, 2015, 10, e0117722.	2.5	115
2	Estimating the anomalous diffusion exponent for single particle tracking data with measurement errors - An alternative approach. Scientific Reports, 2015, 5, 11306.	3.3	60
3	Mean-squared-displacement statistical test for fractional Brownian motion. Physical Review E, 2017, 95, 032110.	2.1	30
4	Elucidating distinct ion channel populations on the surface of hippocampal neurons via single-particle tracking recurrence analysis. Physical Review E, 2017, 96, 062404.	2.1	30
5	Statistical properties of the anomalous scaling exponent estimator based on time-averaged mean-square displacement. Physical Review E, 2017, 96, 022132.	2.1	26
6	Fractional process as a unified model for subdiffusive dynamics in experimental data. Physical Review E, 2012, 86, 041912.	2.1	22
7	Optimal parameters for anomalous-diffusion-exponent estimation from noisy data. Physical Review E, 2018, 98, .	2.1	22
8	Stability and lack of memory of the returns of the Hang Seng index. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3136-3146.	2.6	18
9	Identification and validation of stable ARFIMA processes with application to UMTS data. Chaos, Solitons and Fractals, 2017, 102, 456-466.	5.1	18
10	Estimation of FARIMA Parameters in the Case of Negative Memory and Stable Noise. IEEE Transactions on Signal Processing, 2013, 61, 2825-2835.	5.3	17
11	Modeling anomalous diffusion by a subordinated fractional Lévy-stable process. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P05016.	2.3	15
12	Statistical test for fractional Brownian motion based on detrending moving average algorithm. Chaos, Solitons and Fractals, 2018, 116, 54-62.	5.1	15
13	Identifying diffusive motions in single-particle trajectories on the plasma membrane via fractional time-series models. Physical Review E, 2019, 99, 012101.	2.1	11
14	Identifying ergodicity breaking for fractional anomalous diffusion: Criteria for minimal trajectory length. Physical Review E, 2016, 94, 052136.	2.1	9
15	Diffusive and subdiffusive dynamics of indoor microclimate: A time series modeling. Physical Review E, 2012, 86, 031128.	2.1	8
16	Recurrence statistics for anomalous diffusion regime change detection. Computational Statistics and Data Analysis, 2018, 128, 380-394.	1.2	8
17	Probabilistic properties of detrended fluctuation analysis for Gaussian processes. Physical Review E, 2020, 101, 032114.	2.1	8
18	Spatio-Temporal Dependence Measures for Bivariate AR(1) Models with Lévy-Stable Noise. Journal of Time Series Analysis, 2020, 41, 454-475.	1.2	8

#	ARTICLE	IF	CITATIONS
19	Discriminating Gaussian processes via quadratic form statistics. Chaos, 2021, 31, 063101.	2.5	6
20	Variance change point detection for fractional Brownian motion based on the likelihood ratio test. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 439-450.	2.6	6
21	Fractional Dynamics Identification via Intelligent Unpacking of the Sample Autocovariance Function by Neural Networks. Entropy, 2020, 22, 1322.	2.2	5
22	Empirical anomaly measure for finite-variance processes. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 024001.	2.1	5
23	Normal and anomalous diffusion in fluctuations of dust concentration nearby emission source. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 619-631.	2.6	4
24	Statistical test for anomalous diffusion based on empirical anomaly measure for Gaussian processes. Computational Statistics and Data Analysis, 2022, 168, 107401.	1.2	3
25	Measurement instrumentation and selected signal processing techniques for anomalous diffusion analysis. Measurement: Sensors, 2020, 7-9, 100017.	1.7	2
26	Time-averaged mean squared displacement ratio test for Gaussian processes with unknown diffusion coefficient. Chaos, 2021, 31, 073120.	2.5	1
27	Discrimination of particulate matter emission sources using stochastic methods. Physica A: Statistical Mechanics and Its Applications, 2016, 463, 452-466.	2.6	0