

Boris Podobnik

List of Publications by Year in descending order

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95
papers

6,492
citations

136950

32
h-index

64796

79
g-index

97
all docs

97
docs citations

97
times ranked

2833
citing authors

#	ARTICLE	IF	CITATIONS
1	Social physics. Physics Reports, 2022, 948, 1-148.	25.6	231
2	The microdynamics shaping the relationship between democracy and corruption. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, 20210567.	2.1	0
3	Stringency without efficiency is not adequate to combat pandemics. Chaos, Solitons and Fractals, 2022, 160, 112217.	5.1	1
4	The effects of corruption and the fraction of private ownership on the productivity of telecommunication companies. Technology in Society, 2021, 65, 101532.	9.4	8
5	Effects of quarantine disobedience and mobility restrictions on COVID-19 pandemic waves in dynamical networks. Chaos, Solitons and Fractals, 2021, 150, 111200.	5.1	4
6	Autopoietic Influence Hierarchies in Pancreatic β Cells. Physical Review Letters, 2021, 127, 168101.	7.8	11
7	The new wealth of nations: How STEM fields generate the prosperity and inequality of individuals, companies, and countries. Chaos, Solitons and Fractals, 2020, 141, 110323.	5.1	9
8	The Gender Productivity Gap in Croatian Science: Women Are Catching up with Males and Becoming Even Better. Entropy, 2020, 22, 1217.	2.2	5
9	β Cells Operate Collectively to Help Maintain Glucose Homeostasis. Biophysical Journal, 2020, 118, 2588-2595.	0.5	21
10	Extreme risk induced by communities in interdependent networks. Communications Physics, 2019, 2, .	5.3	8
11	Scale-free growth of human society based on cooperation and altruistic punishment. Physica A: Statistical Mechanics and Its Applications, 2019, 513, 613-619.	2.6	6
12	Emergence of the unified right- and left-wing populismâ€”When radical societal changes become more important than ideology. Physica A: Statistical Mechanics and Its Applications, 2019, 517, 459-474.	2.6	3
13	Locating multiple diffusion sources in time varying networks from sparse observations. Scientific Reports, 2018, 8, 2685.	3.3	22
14	The q -dependent detrended cross-correlation analysis of stock market. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 023402.	2.3	28
15	Punishment diminishes the benefits of network reciprocity in social dilemma experiments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 30-35.	7.1	213
16	Does it payoff to research economicsâ€”A tale of citation, knowledge and economic growth in transition countries. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 293-305.	2.6	4
17	Short term prediction of extreme returns based on the recurrence interval analysis. Quantitative Finance, 2018, 18, 353-370.	1.7	18
18	Promotion of cooperation induced by two-sided players in prisonerâ€™s dilemma game. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 584-590.	2.6	7

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19	Information Feedback in Temporal Networks as a Predictor of Market Crashes. Complexity, 2018, 2018, 1-13.	1.6	18
20	Scaling properties of extreme price fluctuations in Bitcoin markets. Physica A: Statistical Mechanics and Its Applications, 2018, 510, 400-406.	2.6	90
21	Factors influencing message dissemination through social media. Physical Review E, 2018, 97, 062306.	2.1	9
22	A generalization of random matrix theory and its application to statistical physics. Chaos, 2017, 27, 023104.	2.5	2
23	How Fear of Future Outcomes Affects Social Dynamics. Journal of Statistical Physics, 2017, 167, 1007-1019.	1.2	6
24	Biological conservation law as an emerging functionality in dynamical neuronal networks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11826-11831.	7.1	10
25	Predicting the Rise of EU Right-Wing Populism in Response to Unbalanced Immigration. Complexity, 2017, 2017, 1-12.	1.6	17
26	To Invest or Not to Invest, That Is the Question: Analysis of Firm Behavior under Anticipated Shocks. PLoS ONE, 2016, 11, e0158782.	2.5	6
27	Stochastic model of financial markets reproducing scaling and memory in volatility return intervals. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 1091-1102.	2.6	28
28	Estimating Tipping Points in Feedback-Driven Financial Networks. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1040-1052.	10.8	14
29	Classical convergence versus Zipf rank approach: Evidence from China's local-level data. Physica A: Statistical Mechanics and Its Applications, 2016, 443, 246-253.	2.6	3
30	Cities' influence on spatial epidemics. Physics of Life Reviews, 2016, 19, 90-92.	2.8	2
31	Skill complementarity enhances heterophily in collaboration networks. Scientific Reports, 2016, 6, 18727.	3.3	71
32	Early warning of large volatilities based on recurrence interval analysis in Chinese stock markets. Quantitative Finance, 2016, 16, 1713-1724.	1.7	14
33	Detrended partial cross-correlation analysis of two nonstationary time series influenced by common external forces. Physical Review E, 2015, 91, 062816.	2.1	178
34	Predicting the Lifetime of Dynamic Networks Experiencing Persistent Random Attacks. Scientific Reports, 2015, 5, 14286.	3.3	17
35	Does the Wage Gap between Private and Public Sectors Encourage Political Corruption?. PLoS ONE, 2015, 10, e0141211.	2.5	3
36	Dynamically rich, yet parameter-sparse models for spatial epidemiology. Physics of Life Reviews, 2015, 15, 43-46.	2.8	6

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37	Interaction between Fiscal and Monetary Policy in a Dynamic Nonlinear Model. PLoS ONE, 2015, 10, e0118917.	2.5	5
38	Agent-Based Mapping of Credit Risk for Sustainable Microfinance. PLoS ONE, 2015, 10, e0126447.	2.5	6
39	Capital death in the world market. Physical Review E, 2014, 89, 032805.	2.1	8
40	Network risk and forecasting power in phase-flipping dynamical networks. Physical Review E, 2014, 89, 042807.	2.1	23
41	Systemic risk in dynamical networks with stochastic failure criterion. Europhysics Letters, 2014, 106, 68003.	2.0	12
42	Spontaneous recovery in dynamical networks. Nature Physics, 2014, 10, 34-38.	16.7	251
43	Systemic risk and causality dynamics of the world international shipping market. Physica A: Statistical Mechanics and Its Applications, 2014, 415, 43-53.	2.6	44
44	Systemic risk and spatiotemporal dynamics of the US housing market. Scientific Reports, 2014, 4, 3655.	3.3	77
45	Growth Versus Government Management Improvement During Economic Downturn. Scientific Reports, 2013, 3, 1612.	3.3	2
46	Calling patterns in human communication dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1600-1605.	7.1	147
47	Preferential attachment in the interaction between dynamically generated interdependent networks. Europhysics Letters, 2012, 100, 50004.	2.0	20
48	Changes in Cross-Correlations as an Indicator for Systemic Risk. Scientific Reports, 2012, 2, 888.	3.3	84
49	The competitiveness versus the wealth of a country. Scientific Reports, 2012, 2, 678.	3.3	26
50	Linking agent-based models and stochastic models of financial markets. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8388-8393.	7.1	127
51	High-frequency trading model for a complex trading hierarchy. Quantitative Finance, 2012, 12, 559-566.	1.7	19
52	Scaling of seismic memory with earthquake size. Physical Review E, 2012, 86, 011107.	2.1	18
53	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ behavior in cross-correlations between absolute returns in a US market. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2860-2866.	2.6	91
54	Scaling of Growth Rate Volatility for Six Macroeconomic Variables. Contemporary Economics, 2012, 6, 20-25.	1.8	0

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55	Statistical tests for power-law cross-correlated processes. <i>Physical Review E</i> , 2011, 84, 066118.	2.1	389
56	Zipf rank approach and cross-country convergence of incomes. <i>Europhysics Letters</i> , 2011, 94, 48001.	2.0	26
57	Quantifying and modeling long-range cross correlations in multiple time series with applications to world stock indices. <i>Physical Review E</i> , 2011, 83, 046121.	2.1	109
58	Detrended cross-correlation analysis for non-stationary time series with periodic trends. <i>Europhysics Letters</i> , 2011, 94, 18007.	2.0	290
59	Asymmetric Levy flight in financial ratios. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17883-17888.	7.1	66
60	Common scaling behavior in finance and macroeconomics. <i>European Physical Journal B</i> , 2010, 76, 487-490.	1.5	12
61	Time-lag cross-correlations in collective phenomena. <i>Europhysics Letters</i> , 2010, 90, 68001.	2.0	188
62	Scale-invariant properties of public-debt growth. <i>Europhysics Letters</i> , 2010, 90, 38006.	2.0	12
63	Comparison between response dynamics in transition economies and developed economies. <i>Physical Review E</i> , 2010, 82, 046104.	2.1	32
64	Bankruptcy risk model and empirical tests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18325-18330.	7.1	71
65	Asymmetry in power-law magnitude correlations. <i>Physical Review E</i> , 2009, 80, 015101.	2.1	7
66	Quantitative relations between risk, return and firm size. <i>Europhysics Letters</i> , 2009, 85, 50003.	2.0	19
67	Quantifying cross-correlations using local and global detrending approaches. <i>European Physical Journal B</i> , 2009, 71, 243-250.	1.5	380
68	Cross-correlations between volume change and price change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22079-22084.	7.1	590
69	Modeling long-range cross-correlations in two-component ARFIMA and FIARCH processes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 3954-3959.	2.6	130
70	Influence of corruption on economic growth rate and foreign investment. <i>European Physical Journal B</i> , 2008, 63, 547-550.	1.5	88
71	Detrended Cross-Correlation Analysis: A New Method for Analyzing Two Nonstationary Time Series. <i>Physical Review Letters</i> , 2008, 100, 084102.	7.8	1,206
72	Size-dependent standard deviation for growth rates: Empirical results and theoretical modeling. <i>Physical Review E</i> , 2008, 77, 056102.	2.1	38

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73	Similarity and dissimilarity in correlations of genomic DNA. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 373, 497-502.	2.6	9
74	Power-law autocorrelated stochastic processes with long-range cross-correlations. <i>European Physical Journal B</i> , 2007, 56, 47-52.	1.5	118
75	Quantitative relations between corruption and economic factors. <i>European Physical Journal B</i> , 2007, 56, 157-166.	1.5	64
76	Min-Protein Oscillations in <i>E. coli</i> : Three-Dimensional Off-Lattice Stochastic Reaction-Diffusion Model. <i>Journal of Statistical Physics</i> , 2007, 128, 5-20.	1.2	4
77	Fractionally integrated process for transition economics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 362, 465-470.	2.6	89
78	Does the Efficient Market Hypothesis Hold?: Evidence from Six Transition Economies. <i>Eastern European Economics</i> , 2005, 43, 79-103.	1.4	28
79	Fractionally integrated process with power-law correlations in variables and magnitudes. <i>Physical Review E</i> , 2005, 72, 026121.	2.1	74
80	Power-law correlated processes with asymmetric distributions. <i>Physical Review E</i> , 2005, 71, 025104.	2.1	43
81	Common scaling patterns in intertrade times of U. S. stocks. <i>Physical Review E</i> , 2004, 69, 056107.	2.1	149
82	ARCH and GARCH approaches to modeling high-frequency financial data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 344, 216-220.	2.6	19
83	On the instanton-induced portion of the nucleon strangeness II: the MIT model beyond the linearized approximation. <i>European Physical Journal C</i> , 2003, 29, 71-78.	3.9	0
84	Stochastic processes with power-law stability and a crossover in power-law correlations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 316, 153-159.	2.6	15
85	Generating power-law tails in probability distributions. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	0
86	Truncated Lévy process with scale-invariant behavior. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 299, 154-160.	2.6	23
87	Time evolution of stochastic processes with correlations in the variance: stability in power-law tails of distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 300, 300-309.	2.6	26
88	Scale-invariant truncated Lévy process. <i>Europhysics Letters</i> , 2000, 52, 491-497.	2.0	51
89	Systems with correlations in the variance: Generating power law tails in probability distributions. <i>Europhysics Letters</i> , 2000, 50, 711-717.	2.0	54
90	Chiral quark model in a Tamm-Dancoff inspired approximation. <i>Physical Review D</i> , 1998, 58, .	4.7	2

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91	Double giant resonances in time-dependent relativistic mean-field theory. Nuclear Physics A, 1996, 598, 107-124.	1.5	17
92	Relativistic mean-field description of collective motion in nuclei: the pion field. Zeitschrift für Physik A, 1996, 354, 375-380.	0.9	1
93	Estimating Tipping Points in Feedback-Driven Financial Networks. SSRN Electronic Journal, 0, , .	0.4	0
94	Agent-Based Mapping of Credit Risk for Sustainable Microfinance. SSRN Electronic Journal, 0, , .	0.4	0
95	Does the Wage Gap between Private and Public Sectors Encourage Political Corruption?. SSRN Electronic Journal, 0, , .	0.4	0