

LuÃ-s A N Amaral

List of Publications by Year in descending order

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209
papers

41,716
citations

10389

72
h-index

3830

178
g-index

216
all docs

216
docs citations

216
times ranked

30370
citing authors

#	ARTICLE	IF	CITATIONS
1	PhysioBank, PhysioToolkit, and PhysioNet. <i>Circulation</i> , 2000, 101, E215-20.	1.6	10,241
2	Functional cartography of complex metabolic networks. <i>Nature</i> , 2005, 433, 895-900.	27.8	3,086
3	Classes of small-world networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 11149-11152.	7.1	2,455
4	Fractal dynamics in physiology: Alterations with disease and aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2466-2472.	7.1	1,731
5	Multifractality in human heartbeat dynamics. <i>Nature</i> , 1999, 399, 461-465.	27.8	1,474
6	The web of human sexual contacts. <i>Nature</i> , 2001, 411, 907-908.	27.8	1,384
7	The worldwide air transportation network: Anomalous centrality, community structure, and cities' global roles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7794-7799.	7.1	1,377
8	Universal and Nonuniversal Properties of Cross Correlations in Financial Time Series. <i>Physical Review Letters</i> , 1999, 83, 1471-1474.	7.8	913
9	Team Assembly Mechanisms Determine Collaboration Network Structure and Team Performance. <i>Science</i> , 2005, 308, 697-702.	12.6	899
10	Single-Cell Transcriptomic Analysis of Human Lung Provides Insights into the Pathobiology of Pulmonary Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 1517-1536.	5.6	866
11	Random matrix approach to cross correlations in financial data. <i>Physical Review E</i> , 2002, 65, 066126.	2.1	758
12	Scaling of the distribution of fluctuations of financial market indices. <i>Physical Review E</i> , 1999, 60, 5305-5316.	2.1	745
13	Modularity from fluctuations in random graphs and complex networks. <i>Physical Review E</i> , 2004, 70, 025101.	2.1	680
14	Scaling behaviour in the growth of companies. <i>Nature</i> , 1996, 379, 804-806.	27.8	637
15	Cartography of complex networks: modules and universal roles. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P02001.	2.3	517
16	Inverse cubic law for the distribution of stock price variations. <i>European Physical Journal B</i> , 1998, 3, 139-140.	1.5	498
17	Scaling of the distribution of price fluctuations of individual companies. <i>Physical Review E</i> , 1999, 60, 6519-6529.	2.1	466
18	Extracting the hierarchical organization of complex systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15224-15229.	7.1	465

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19	From $1/f$ noise to multifractal cascades in heartbeat dynamics. <i>Chaos</i> , 2001, 11, 641-652.	2.5	431
20	Complex networks. <i>European Physical Journal B</i> , 2004, 38, 147-162.	1.5	394
21	Classes of complex networks defined by role-to-role connectivity profiles. <i>Nature Physics</i> , 2007, 3, 63-69.	16.7	363
22	Modeling the world-wide airport network. <i>European Physical Journal B</i> , 2004, 38, 381-385.	1.5	355
23	A Poissonian explanation for heavy tails in e-mail communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18153-18158.	7.1	328
24	Module identification in bipartite and directed networks. <i>Physical Review E</i> , 2007, 76, 036102.	2.1	324
25	Statistical physics and physiology: Monofractal and multifractal approaches. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 270, 309-324.	2.6	323
26	Behavioral-Independent Features of Complex Heartbeat Dynamics. <i>Physical Review Letters</i> , 2001, 86, 6026-6029.	7.8	305
27	Small-World Networks: Evidence for a Crossover Picture. <i>Physical Review Letters</i> , 1999, 82, 3180-3183.	7.8	254
28	Robust Patterns in Food Web Structure. <i>Physical Review Letters</i> , 2002, 88, 228102.	7.8	245
29	Quantifying the Performance of Individual Players in a Team Activity. <i>PLoS ONE</i> , 2010, 5, e10937.	2.5	236
30	Power Law Scaling for a System of Interacting Units with Complex Internal Structure. <i>Physical Review Letters</i> , 1998, 80, 1385-1388.	7.8	231
31	Universal Features in the Growth Dynamics of Complex Organizations. <i>Physical Review Letters</i> , 1998, 81, 3275-3278.	7.8	225
32	Stochastic feedback and the regulation of biological rhythms. <i>Europhysics Letters</i> , 1998, 43, 363-368.	2.0	223
33	Sleep-wake differences in scaling behavior of the human heartbeat: Analysis of terrestrial and long-term space flight data. <i>Europhysics Letters</i> , 1999, 48, 594-600.	2.0	223
34	Scale Invariance in the Nonstationarity of Human Heart Rate. <i>Physical Review Letters</i> , 2001, 87, 168105.	7.8	222
35	Sexual networks: implications for the transmission of sexually transmitted infections. <i>Microbes and Infection</i> , 2003, 5, 189-196.	1.9	217
36	Economic fluctuations and anomalous diffusion. <i>Physical Review E</i> , 2000, 62, R3023-R3026.	2.1	210

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37	Anomalous fluctuations in the dynamics of complex systems: from DNA and physiology to econophysics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 302-321.	2.6	199
38	Prompting Physicians to Address a Daily Checklist and Process of Care and Clinical Outcomes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 680-686.	5.6	189
39	Large-scale investigation of the reasons why potentially important genes are ignored. <i>PLoS Biology</i> , 2018, 16, e2006643.	5.6	188
40	Duality between Time Series and Networks. <i>PLoS ONE</i> , 2011, 6, e23378.	2.5	180
41	QUANTITATIVE PATTERNS IN THE STRUCTURE OF MODEL AND EMPIRICAL FOOD WEBS. <i>Ecology</i> , 2005, 86, 1301-1311.	3.2	179
42	The Possible Role of Resource Requirements and Academic Career-Choice Risk on Gender Differences in Publication Rate and Impact. <i>PLoS ONE</i> , 2012, 7, e51332.	2.5	179
43	Truncation of Power Law Behavior in "Scale-Free" Network Models due to Information Filtering. <i>Physical Review Letters</i> , 2002, 88, 138701.	7.8	172
44	Small-world networks and management science research: a review. <i>European Management Review</i> , 2007, 4, 77-91.	3.7	168
45	Evidence for the existence of a robust pattern of prey selection in food webs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1931-1940.	2.6	167
46	On Universality in Human Correspondence Activity. <i>Science</i> , 2009, 325, 1696-1700.	12.6	167
47	Dynamics of sleep-wake transitions during sleep. <i>Europhysics Letters</i> , 2002, 57, 625-631.	2.0	165
48	Similarities between the growth dynamics of university research and of competitive economic activities. <i>Nature</i> , 1999, 400, 433-437.	27.8	147
49	Econophysics: Can physicists contribute to the science of economics?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 269, 156-169.	2.6	143
50	Levels of complexity in scale-invariant neural signals. <i>Physical Review E</i> , 2009, 79, 041920.	2.1	143
51	Econophysics: financial time series from a statistical physics point of view. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 279, 443-456.	2.6	138
52	Effectiveness of Journal Ranking Schemes as a Tool for Locating Information. <i>PLoS ONE</i> , 2008, 3, e1683.	2.5	134
53	The role of mentorship in protégé performance. <i>Nature</i> , 2010, 465, 622-626.	27.8	130
54	Scaling the volatility of GDP growth rates. <i>Economics Letters</i> , 1998, 60, 335-341.	1.9	129

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55	Scale-Independent Measures and Pathologic Cardiac Dynamics. <i>Physical Review Letters</i> , 1998, 81, 2388-2391.	7.8	126
56	Origin of compartmentalization in food webs. <i>Ecology</i> , 2010, 91, 2941-2951.	3.2	126
57	Scaling and correlation in financial time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 287, 362-373.	2.6	123
58	A robust data-driven approach identifies four personality types across four large data sets. <i>Nature Human Behaviour</i> , 2018, 2, 735-742.	12.0	123
59	A robust measure of food web intervality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19015-19020.	7.1	116
60	Complex Systems – A New Paradigm for the Integrative Study of Management, Physical, and Technological Systems. <i>Management Science</i> , 2007, 53, 1033-1035.	4.1	109
61	Universality classes for interface growth with quenched disorder. <i>Physical Review Letters</i> , 1994, 73, 62-65.	7.8	105
62	A random matrix theory approach to financial cross-correlations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 287, 374-382.	2.6	104
63	Cascading failure and robustness in metabolic networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13223-13228.	7.1	103
64	Application of statistical physics to heartbeat diagnosis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 274, 99-110.	2.6	102
65	Scale invariance and universality: organizing principles in complex systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 281, 60-68.	2.6	100
66	Differences in Collaboration Patterns across Discipline, Career Stage, and Gender. <i>PLoS Biology</i> , 2016, 14, e1002573.	5.6	100
67	Price fluctuations, market activity and trading volume. <i>Quantitative Finance</i> , 2001, 1, 262-269.	1.7	98
68	From The Cover: Emergence of complex dynamics in a simple model of signaling networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15551-15555.	7.1	97
69	Scaling properties of driven interfaces in disordered media. <i>Physical Review E</i> , 1995, 52, 4087-4104.	2.1	82
70	Small-world networks and the conformation space of a short lattice polymer chain. <i>Europhysics Letters</i> , 2001, 55, 594-600.	2.0	80
71	Statistical validation of a global model for the distribution of the ultimate number of citations accrued by papers published in a scientific journal. <i>Journal of the Association for Information Science and Technology</i> , 2010, 61, 1377-1385.	2.6	79
72	Similarities and differences between physics and economics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 299, 1-15.	2.6	76

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73	Complex Systems View of Educational Policy Research. <i>Science</i> , 2010, 330, 38-39.	12.6	69
74	Scaling behavior in economics: The problem of quantifying company growth. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 244, 1-24.	2.6	68
75	Self-organized complexity in economics and finance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2561-2565.	7.1	67
76	Efficient system-wide coordination in noisy environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12085-12090.	7.1	62
77	Environmental Changes, Coextinction, and Patterns in the Fossil Record. <i>Physical Review Letters</i> , 1999, 82, 652-655.	7.8	60
78	Different scaling behaviors of commodity spot and future prices. <i>Physical Review E</i> , 2002, 66, 045103.	2.1	60
79	Canalizing Kauffman Networks: Nonergodicity and Its Effect on Their Critical Behavior. <i>Physical Review Letters</i> , 2005, 94, 218702.	7.8	59
80	A network-based method for target selection in metabolic networks. <i>Bioinformatics</i> , 2007, 23, 1616-1622.	4.1	58
81	Avalanches and the directed percolation depinning model: Experiments, simulations, and theory. <i>Physical Review E</i> , 1995, 51, 4655-4673.	2.1	57
82	The role of body mass in diet contiguity and food-web structure. <i>Journal of Animal Ecology</i> , 2011, 80, 632-639.	2.8	57
83	The Intersection of Aging Biology and the Pathobiology of Lung Diseases: A Joint NHLBI/NIA Workshop. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 1492-1500.	3.6	55
84	Analytical solution of a model for complex food webs. <i>Physical Review E</i> , 2002, 65, 030901.	2.1	54
85	Quantitative analysis of the local structure of food webs. <i>Journal of Theoretical Biology</i> , 2007, 246, 260-268.	1.7	50
86	A model for the growth dynamics of economic organizations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 299, 127-136.	2.6	49
87	Complex systems and networks: challenges and opportunities for chemical and biological engineers. <i>Chemical Engineering Science</i> , 2004, 59, 1653-1666.	3.8	48
88	Heuristic segmentation of a nonstationary time series. <i>Physical Review E</i> , 2004, 69, 021108.	2.1	47
89	Scale invariance and universality of economic fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 283, 31-41.	2.6	46
90	Asymmetrical singularities in real-world signals. <i>Physical Review E</i> , 2003, 68, 065204.	2.1	46

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91	High-Reproducibility and High-Accuracy Method for Automated Topic Classification. <i>Physical Review X</i> , 2015, 5, .	8.9	45
92	Collective behavior of stock price movements—a random matrix theory approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 299, 175-180.	2.6	44
93	New exponent characterizing the effect of evaporation on imbibition experiments. <i>Physical Review Letters</i> , 1994, 72, 641-644.	7.8	43
94	Virtual Round Table on ten leading questions for network research. <i>European Physical Journal B</i> , 2004, 38, 143-145.	1.5	43
95	A truer measure of our ignorance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6795-6796.	7.1	43
96	Scaling and universality in animate and inanimate systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 231, 20-48.	2.6	42
97	Dynamics and heterogeneity of a fate determinant during transition towards cell differentiation. <i>ELife</i> , 2015, 4, .	6.0	41
98	Mesoscopic modeling for nucleic acid chain dynamics. <i>Physical Review E</i> , 2005, 71, 051902.	2.1	40
99	Lies, damned lies and statistics. <i>Nature Physics</i> , 2006, 2, 75-76.	16.7	40
100	Detection of node group membership in networks with group overlap. <i>European Physical Journal B</i> , 2009, 67, 277-284.	1.5	40
101	CAN STATISTICAL PHYSICS CONTRIBUTE TO THE SCIENCE OF ECONOMICS?. <i>Fractals</i> , 1996, 04, 415-425.	3.7	37
102	Quantifying Position-Dependent Codon Usage Bias. <i>Molecular Biology and Evolution</i> , 2014, 31, 1880-1893.	8.9	37
103	Extremum Statistics in Scale-Free Network Models. <i>Physical Review Letters</i> , 2002, 89, 268703.	7.8	36
104	Price fluctuations and market activity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 299, 137-143.	2.6	34
105	Price dynamics in political prediction markets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 679-684.	7.1	34
106	Self-organized criticality in a rice-pile model. <i>Physical Review E</i> , 1996, 54, R4512-R4515.	2.1	33
107	Scaling in the growth of geographically subdivided populations: invariant patterns from a continent-wide biological survey. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 627-633.	4.0	33
108	Macro-level Modeling of the Response of <i>C. elegans</i> Reproduction to Chronic Heat Stress. <i>PLoS Computational Biology</i> , 2012, 8, e1002338.	3.2	33

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109	Adoption of a High-Impact Innovation in a Homogeneous Population. <i>Physical Review X</i> , 2014, 4, 041008.	8.9	32
110	A universal information theoretic approach to the identification of stopwords. <i>Nature Machine Intelligence</i> , 2019, 1, 606-612.	16.0	31
111	Cross-evaluation of metrics to estimate the significance of creative works. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1281-1286.	7.1	30
112	Rationality, Irrationality and Escalating Behavior in Lowest Unique Bid Auctions. <i>PLoS ONE</i> , 2012, 7, e29910.	2.5	29
113	Dynamics of Surface Roughening with Quenched Disorder. <i>Physical Review Letters</i> , 1995, 74, 4205-4208.	7.8	27
114	Similarities between communication dynamics in the Internet and the autonomic nervous system. <i>Europhysics Letters</i> , 2003, 62, 189-195.	2.0	27
115	Social embeddedness in an online weight management programme is linked to greater weight loss. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140686.	3.4	25
116	Quantifying fluctuations in economic systems by adapting methods of statistical physics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 287, 339-361.	2.6	24
117	Scaling phenomena in the growth dynamics of scientific output. <i>Journal of the Association for Information Science and Technology</i> , 2005, 56, 893-902.	2.6	24
118	Chemical amplification in an invaded food web: Seasonality and ontogeny in a high-biomass, low-diversity ecosystem. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 2186-2195.	4.3	24
119	Economic insecurity and the rise in gun violence at US schools. <i>Nature Human Behaviour</i> , 2017, 1, .	12.0	24
120	Diversity of Translation Initiation Mechanisms across Bacterial Species Is Driven by Environmental Conditions and Growth Demands. <i>Molecular Biology and Evolution</i> , 2018, 35, 582-592.	8.9	24
121	Repressive Gene Regulation Synchronizes Development with Cellular Metabolism. <i>Cell</i> , 2019, 178, 980-992.e17.	28.9	24
122	The Distribution of the Asymptotic Number of Citations to Sets of Publications by a Researcher or from an Academic Department Are Consistent with a Discrete Lognormal Model. <i>PLoS ONE</i> , 2015, 10, e0143108.	2.5	23
123	Leveraging genome-wide datasets to quantify the functional role of the anti-Shine-Dalgarno sequence in regulating translation efficiency. <i>Open Biology</i> , 2017, 7, 160239.	3.6	23
124	THE DISTRIBUTION OF RETURNS OF STOCK PRICES. <i>International Journal of Theoretical and Applied Finance</i> , 2000, 03, 365-369.	0.5	19
125	Universality classes for rice-pile models. <i>Physical Review E</i> , 1997, 56, 231-234.	2.1	18
126	Application of statistical physics methods and concepts to the study of science & technology systems. <i>Scientometrics</i> , 2001, 51, 9-36.	3.0	18

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127	Depletion of Shine-Dalgarno Sequences Within Bacterial Coding Regions Is Expression Dependent. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 3467-3474.	1.8	18
128	Energy avalanches in a rice-pile model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 231, 608-614.	2.6	17
129	THE CURRENTS BENEATH THE "RISING TIDE" OF SCHOOL CHOICE: AN ANALYSIS OF STUDENT ENROLLMENT FLOWS IN THE CHICAGO PUBLIC SCHOOLS. <i>Journal of Policy Analysis and Management</i> , 2015, 34, 358-377.	1.4	17
130	Correlations between user voting data, budget, and box office for films in the internet movie database. <i>Journal of the Association for Information Science and Technology</i> , 2015, 66, 858-868.	2.9	17
131	Within-Gene Shine-Dalgarno Sequences Are Not Selected for Function. <i>Molecular Biology and Evolution</i> , 2018, 35, 2487-2498.	8.9	16
132	APPLICATION OF RANDOM MATRIX THEORY TO STUDY CROSS-CORRELATIONS OF STOCK PRICES. <i>International Journal of Theoretical and Applied Finance</i> , 2000, 03, 399-403.	0.5	14
133	Power law temporal auto-correlations in day-long records of human physical activity and their alteration with disease. <i>Europhysics Letters</i> , 2004, 66, 448-454.	2.0	14
134	Changes in Task-Related Functional Connectivity across Multiple Spatial Scales Are Related to Reading Performance. <i>PLoS ONE</i> , 2013, 8, e59204.	2.5	14
135	How to build a more open justice system. <i>Science</i> , 2020, 369, 134-136.	12.6	14
136	COVID-19 research risks ignoring important host genes due to pre-established research patterns. <i>ELife</i> , 2020, 9, .	6.0	14
137	Moving the Science of Quality Improvement in Critical Care Medicine Forward. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 182, 1461-1462.	5.6	13
138	Long-range correlations and fractal dynamics in <i>C. elegans</i> : Changes with aging and stress. <i>Physical Review E</i> , 2017, 96, 022417.	2.1	13
139	Large-scale analysis of micro-level citation patterns reveals nuanced selection criteria. <i>Nature Human Behaviour</i> , 2019, 3, 568-575.	12.0	13
140	Centrality anomalies in complex networks as a result of model over-simplification. <i>New Journal of Physics</i> , 2020, 22, 013043.	2.9	13
141	SCALING AND UNIVERSALITY IN LIVING SYSTEMS. <i>Fractals</i> , 1996, 04, 427-451.	3.7	12
142	Sexual contacts and epidemic thresholds. <i>Nature</i> , 2003, 423, 606-606.	27.8	12
143	Move-by-Move Dynamics of the Advantage in Chess Matches Reveals Population-Level Learning of the Game. <i>PLoS ONE</i> , 2013, 8, e54165.	2.5	12
144	Quantifying economic fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 302, 126-137.	2.6	11

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145	Use of a global metabolic network to curate organismal metabolic networks. Scientific Reports, 2013, 3, 1695.	3.3	11
146	NullSeq: A Tool for Generating Random Coding Sequences with Desired Amino Acid and GC Contents. PLoS Computational Biology, 2016, 12, e1005184.	3.2	11
147	Scale-invariant correlations in the biological and social sciences. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1373-1388.	0.6	10
148	Comparison of methods for the detection of node group membership in bipartite networks. European Physical Journal B, 2009, 72, 671-677.	1.5	10
149	Physically grounded approach for estimating gene expression from microarray data. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13690-13695.	7.1	10
150	Impurity-induced diffusion bias in epitaxial growth. Physical Review E, 1997, 55, 7785-7788.	2.1	9
151	Comment on "Kinetic Roughening in Slow Combustion of Paper". Physical Review Letters, 1998, 80, 5706-5706.	7.8	9
152	ECONOPHYSICS: WHAT CAN PHYSICISTS CONTRIBUTE TO ECONOMICS?. International Journal of Theoretical and Applied Finance, 2000, 03, 335-346.	0.5	9
153	Dynamics of temporal correlation in daily Internet traffic. , 0, , .		9
154	Micro-bias and macro-performance. European Physical Journal B, 2009, 67, 369-375.	1.5	9
155	Impact of heterogeneity and socioeconomic factors on individual behavior in decentralized sharing ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15322-15327.	7.1	9
156	A network approach to discerning the identities of C. elegans in a free moving population. Scientific Reports, 2016, 6, 34859.	3.3	9
157	A novel framework for evaluating the performance of codon usage bias metrics. Journal of the Royal Society Interface, 2018, 15, 20170667.	3.4	9
158	ANOMALOUS INTERFACE ROUGHENING: THE ROLE OF A GRADIENT IN THE DENSITY OF PINNING SITES. Fractals, 1993, 01, 818-826.	3.7	8
159	Drosophila eye nuclei segmentation based on graph cut and convex shape prior. , 2013, , 670-674.		8
160	Ecological engineering and sustainability: A new opportunity for chemical engineering. AIChE Journal, 2008, 54, 3040-3047.	3.6	7
161	A quantitative approach for the analysis of clinician recognition of acute respiratory distress syndrome using electronic health record data. PLoS ONE, 2019, 14, e0222826.	2.5	6
162	Conformational stability of the bacterial adhesin, FimH , with an inactivating mutation. Proteins: Structure, Function and Bioinformatics, 2021, 89, 276-288.	2.6	6

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163	AVALANCHES IN THE DIRECTED PERCOLATION DEPINNING AND SELF-ORGANIZED DEPINNING MODELS OF INTERFACE ROUGHENING. <i>Fractals</i> , 1996, 04, 307-319.	3.7	5
164	The Impact of Individual Biases on Consensus Formation. <i>PLoS ONE</i> , 2013, 8, e58989.	2.5	5
165	The characteristics of early-stage research into human genes are substantially different from subsequent research. <i>PLoS Biology</i> , 2022, 20, e3001520.	5.6	5
166	Monte Carlo simulation of the methylchloride liquid-vapour interface. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 1919-1934.	1.8	4
167	Scale invariance and universality in economic phenomena. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 2121-2131.	1.8	4
168	Application of computational statistical physics to scale invariance and universality in economic phenomena. <i>Computer Physics Communications</i> , 2002, 146, 84-92.	7.5	4
169	Evolution of protein families: Is it possible to distinguish between domains of life?. <i>Gene</i> , 2007, 402, 81-93.	2.2	4
170	A Random Matrix Theory Approach to Quantifying Collective Behavior of Stock Price Fluctuations. , 2002, , 35-40.		3
171	Novel Collaborations within Experienced Teams Lead to Best Research Outcomes. <i>Annals of Vascular Surgery</i> , 2005, 19, 753-754.	0.9	3
172	Complex fluctuations and robustness in stylized signalling networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P01013-P01013.	2.3	3
173	Reply to: Four personality types may be neither robust nor exhaustive. <i>Nature Human Behaviour</i> , 2019, 3, 1047-1048.	12.0	3
174	Fly-QMA: Automated analysis of mosaic imaginal discs in <i>Drosophila</i> . <i>PLoS Computational Biology</i> , 2020, 16, e1007406.	3.2	3
175	Long-term patterns of gender imbalance in an industry without ability or level of interest differences. <i>PLoS ONE</i> , 2020, 15, e0229662.	2.5	3
176	Fluctuations and their correlations in econophysics. , 1999, , 197-210.		2
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