

Lus A N Amaral

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

201 papers	31,543 citations	68 h-index	177 g-index
216 ext. papers	37,272 ext. citations	7.9 avg, IF	6.99 L-index

#	Paper	IF	Citations
201	PhysioBank, PhysioToolkit, and PhysioNet: components of a new research resource for complex physiologic signals. <i>Circulation</i> , 2000 , 101, E215-20	16.7	6573
200	Functional cartography of complex metabolic networks. <i>Nature</i> , 2005 , 433, 895-900	50.4	2293
199	Classes of small-world networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11149-52	11.5	2042
198	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 Suppl 1, 2466-72	11.5	1397
197	Multifractality in human heartbeat dynamics. <i>Nature</i> , 1999 , 399, 461-5	50.4	1214
196	The web of human sexual contacts. <i>Nature</i> , 2001 , 411, 907-8	50.4	1175
195	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, 7794-9	11.5	1145
194	Universal and Nonuniversal Properties of Cross Correlations in Financial Time Series. <i>Physical Review Letters</i> , 1999 , 83, 1471-1474	7.4	764
193	Team assembly mechanisms determine collaboration network structure and team performance. <i>Science</i> , 2005 , 308, 697-702	33.3	660
192	Scaling of the distribution of fluctuations of financial market indices. <i>Physical Review E</i> , 1999 , 60, 5305-16	16.4	610
191	Random matrix approach to cross correlations in financial data. <i>Physical Review E</i> , 2002 , 65, 066126	2.4	581
190	Modularity from fluctuations in random graphs and complex networks. <i>Physical Review E</i> , 2004 , 70, 025101	10.1	550
189	Scaling behaviour in the growth of companies. <i>Nature</i> , 1996 , 379, 804-806	50.4	534
188	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	10.2	470
187	Scaling of the distribution of price fluctuations of individual companies. <i>Physical Review E</i> , 1999 , 60, 6519-29	12.9	402
186	Inverse cubic law for the distribution of stock price variations. <i>European Physical Journal B</i> , 1998 , 3, 139-140	1.40	389
185	Extracting the hierarchical organization of complex systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15224-9	11.5	382

184	Cartography of complex networks: modules and universal roles. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005 , 2005, nihpa35573	1.9	365
183	From 1/f noise to multifractal cascades in heartbeat dynamics. <i>Chaos</i> , 2001 , 11, 641-652	3.3	328
182	Complex networks. <i>European Physical Journal B</i> , 2004 , 38, 147-162	1.2	298
181	Classes of complex networks defined by role-to-role connectivity profiles. <i>Nature Physics</i> , 2007 , 3, 63-69	16.2	293
180	Modeling the world-wide airport network. <i>European Physical Journal B</i> , 2004 , 38, 381-385	1.2	290
179	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, 18153-8	11.5	286
178	Module identification in bipartite and directed networks. <i>Physical Review E</i> , 2007 , 76, 036102	2.4	269
177	Statistical physics and physiology: monofractal and multifractal approaches. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 270, 309-24	3.3	257
176	Behavioral-independent features of complex heartbeat dynamics. <i>Physical Review Letters</i> , 2001 , 86, 6026-9	7.4	219
175	Robust patterns in food web structure. <i>Physical Review Letters</i> , 2002 , 88, 228102	7.4	207
174	Power Law Scaling for a System of Interacting Units with Complex Internal Structure. <i>Physical Review Letters</i> , 1998 , 80, 1385-1388	7.4	201
173	Small-World Networks: Evidence for a Crossover Picture. <i>Physical Review Letters</i> , 1999 , 82, 3180-3183	7.4	199
172	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	1.6	197
171	Universal Features in the Growth Dynamics of Complex Organizations. <i>Physical Review Letters</i> , 1998 , 81, 3275-3278	7.4	194
170	Sexual networks: implications for the transmission of sexually transmitted infections. <i>Microbes and Infection</i> , 2003 , 5, 189-96	9.3	190
169	Stochastic feedback and the regulation of biological rhythms. <i>Europhysics Letters</i> , 1998 , 43, 363-8	1.6	183
168	Quantifying the performance of individual players in a team activity. <i>PLoS ONE</i> , 2010 , 5, e10937	3.7	179
167	Economic fluctuations and anomalous diffusion. <i>Physical Review E</i> , 2000 , 62, R3023-6	2.4	173

166	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	3.3	166
165	Scale invariance in the nonstationarity of human heart rate. <i>Physical Review Letters</i> , 2001 , 87, 168105	7.4	165
164	Prompting physicians to address a daily checklist and process of care and clinical outcomes: a single-site study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011 , 184, 680-6	10.2	157
163	On universality in human correspondence activity. <i>Science</i> , 2009 , 325, 1696-700	33.3	146
162	Truncation of power law behavior in "scale-free" network models due to information filtering. <i>Physical Review Letters</i> , 2002 , 88, 138701	7.4	140
161	Dynamics of sleep-wake transitions during sleep. <i>Europhysics Letters</i> , 2002 , 57, 625-631	1.6	137
160	Duality between time series and networks. <i>PLoS ONE</i> , 2011 , 6, e23378	3.7	135
159	Small-world networks and management science research: a review. <i>European Management Review</i> , 2007 , 4, 77-91	2.1	135
158	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, 1931-40	4.4	134
157	QUANTITATIVE PATTERNS IN THE STRUCTURE OF MODEL AND EMPIRICAL FOOD WEBS. <i>Ecology</i> , 2005 , 86, 1301-1311	4.6	129
156	Econophysics: Can physicists contribute to the science of economics?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 269, 156-169	3.3	125
155	Similarities between the growth dynamics of university research and of competitive economic activities. <i>Nature</i> , 1999 , 400, 433-437	50.4	124
154	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	3.7	121
153	Econophysics: financial time series from a statistical physics point of view. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 279, 443-456	3.3	118
152	Scale-independent measures and pathologic cardiac dynamics. <i>Physical Review Letters</i> , 1998 , 81, 2388-91	7.4	115
151	Scaling the volatility of GDP growth rates. <i>Economics Letters</i> , 1998 , 60, 335-341	1.3	114
150	Effectiveness of journal ranking schemes as a tool for locating information. <i>PLoS ONE</i> , 2008 , 3, e1683	3.7	109
149	Scaling and correlation in financial time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 287, 362-373	3.3	107

148	Large-scale investigation of the reasons why potentially important genes are ignored. <i>PLoS Biology</i> , 2018 , 16, e2006643	9.7	107
147	Levels of complexity in scale-invariant neural signals. <i>Physical Review E</i> , 2009 , 79, 041920	2.4	96
146	Application of statistical physics to heartbeat diagnosis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 274, 99-110	3.3	96
145	A robust measure of food web intervality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19015-20	11.5	95
144	Universality classes for interface growth with quenched disorder. <i>Physical Review Letters</i> , 1994 , 73, 62-65	5.4	95
143	Origin of compartmentalization in food webs. <i>Ecology</i> , 2010 , 91, 2941-51	4.6	94
142	The role of mentorship in prototyping performance. <i>Nature</i> , 2010 , 465, 622-6	50.4	92
141	Scale invariance and universality: organizing principles in complex systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 281, 60-68	3.3	88
140	Price fluctuations, market activity and trading volume. <i>Quantitative Finance</i> , 2001 , 1, 262-269	1.6	86
139	Complex Systems: A New Paradigm for the Integrative Study of Management, Physical, and Technological Systems. <i>Management Science</i> , 2007 , 53, 1033-1035	3.9	83
138	Cascading failure and robustness in metabolic networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13223-8	11.5	82
137	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, 15551-5	11.5	81
136	A random matrix theory approach to financial cross-correlations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 287, 374-382	3.3	75
135	Scaling properties of driven interfaces in disordered media. <i>Physical Review E</i> , 1995 , 52, 4087-4104	2.4	75
134	Small-world networks and the conformation space of a short lattice polymer chain. <i>Europhysics Letters</i> , 2001 , 55, 594-600	1.6	70
133	A robust data-driven approach identifies four personality types across four large data sets. <i>Nature Human Behaviour</i> , 2018 , 2, 735-742	12.8	68
132	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		67
131	Similarities and differences between physics and economics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 1-15	3.3	63

130	Scaling behavior in economics: The problem of quantifying company growth. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 244, 1-24	3.3	59
129	Self-organized complexity in economics and finance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99 Suppl 1, 2561-5	11.5	57
128	Environmental Changes, Coextinction, and Patterns in the Fossil Record. <i>Physical Review Letters</i> , 1999 , 82, 652-655	7.4	56
127	Differences in Collaboration Patterns across Discipline, Career Stage, and Gender. <i>PLoS Biology</i> , 2016 , 14, e1002573	9.7	56
126	Education. Complex systems view of educational policy research. <i>Science</i> , 2010 , 330, 38-9	33.3	55
125	Efficient system-wide coordination in noisy environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12085-90	11.5	51
124	Avalanches and the directed percolation depinning model: Experiments, simulations, and theory. <i>Physical Review E</i> , 1995 , 51, 4655-4673	2.4	51
123	Canalizing Kauffman networks: nonergodicity and its effect on their critical behavior. <i>Physical Review Letters</i> , 2005 , 94, 218702	7.4	50
122	Different scaling behaviors of commodity spot and future prices. <i>Physical Review E</i> , 2002 , 66, 045103	2.4	50
121	A network-based method for target selection in metabolic networks. <i>Bioinformatics</i> , 2007 , 23, 1616-22	7.2	47
120	The role of body mass in diet contiguity and food-web structure. <i>Journal of Animal Ecology</i> , 2011 , 80, 632-9	4.7	46
119	A model for the growth dynamics of economic organizations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 127-136	3.3	46
118	Analytical solution of a model for complex food webs. <i>Physical Review E</i> , 2002 , 65, 030901	2.4	45
117	Quantitative analysis of the local structure of food webs. <i>Journal of Theoretical Biology</i> , 2007 , 246, 260-82.3	8.3	41
116	Asymmetrical singularities in real-world signals. <i>Physical Review E</i> , 2003 , 68, 065204	2.4	41
115	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	6.4	40
114	New exponent characterizing the effect of evaporation on imbibition experiments. <i>Physical Review Letters</i> , 1994 , 72, 641-644	7.4	40
113	A truer measure of our ignorance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6795-6	11.5	38

112	Complex systems and networks: challenges and opportunities for chemical and biological engineers. <i>Chemical Engineering Science</i> , 2004 , 59, 1653-1666	4.4	38
111	Detection of node group membership in networks with group overlap. <i>European Physical Journal B</i> , 2009 , 67, 277-284	1.2	37
110	Heuristic segmentation of a nonstationary time series. <i>Physical Review E</i> , 2004 , 69, 021108	2.4	37
109	Mesoscopic modeling for nucleic acid chain dynamics. <i>Physical Review E</i> , 2005 , 71, 051902	2.4	37
108	Scale invariance and universality of economic fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 283, 31-41	3.3	37
107	Scaling and universality in animate and inanimate systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 231, 20-48	3.3	36
106	Virtual Round Table on ten leading questions for network research. <i>European Physical Journal B</i> , 2004 , 38, 143-145	1.2	35
105	Extremum statistics in scale-free network models. <i>Physical Review Letters</i> , 2002 , 89, 268703	7.4	33
104	Collective behavior of stock price movements—random matrix theory approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 175-180	3.3	32
103	Self-organized criticality in a rice-pile model. <i>Physical Review E</i> , 1996 , 54, R4512-R4515	2.4	32
102	CAN STATISTICAL PHYSICS CONTRIBUTE TO THE SCIENCE OF ECONOMICS?. <i>Fractals</i> , 1996 , 04, 415-425	3.2	30
101	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, 627-33	5.8	29
100	High-Reproducibility and High-Accuracy Method for Automated Topic Classification. <i>Physical Review X</i> , 2015 , 5,	9.1	28
99	Price fluctuations and market activity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 137-143	3.3	27
98	Rationality, irrationality and escalating behavior in lowest unique bid auctions. <i>PLoS ONE</i> , 2012 , 7, e299107	9.7	26
97	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, 1281-6	11.5	25
96	Adoption of a High-Impact Innovation in a Homogeneous Population. <i>Physical Review X</i> , 2014 , 4, 041008	9.1	25
95	Price dynamics in political prediction markets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 679-84	11.5	25

94	Similarities between communication dynamics in the Internet and the autonomic nervous system. <i>Europhysics Letters</i> , 2003 , 62, 189-195	1.6	25
93	Dynamics and heterogeneity of a fate determinant during transition towards cell differentiation. <i>ELife</i> , 2015 , 4,	8.9	25
92	Quantifying position-dependent codon usage bias. <i>Molecular Biology and Evolution</i> , 2014 , 31, 1880-93	8.3	24
91	Macro-level modeling of the response of <i>C. elegans</i> reproduction to chronic heat stress. <i>PLoS Computational Biology</i> , 2012 , 8, e1002338	5	23
90	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, 2186-95	3.8	23
89	Scaling phenomena in the growth dynamics of scientific output. <i>Journal of the Association for Information Science and Technology</i> , 2005 , 56, 893-902		23
88	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	3.7	21
87	Dynamics of surface roughening with quenched disorder. <i>Physical Review Letters</i> , 1995 , 74, 4205-4208	7.4	21
86	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	4.1	19
85	Universality classes for rice-pile models. <i>Physical Review E</i> , 1997 , 56, 231-234	2.4	18
84	Quantifying fluctuations in economic systems by adapting methods of statistical physics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 287, 339-361	3.3	18
83	Repressive Gene Regulation Synchronizes Development with Cellular Metabolism. <i>Cell</i> , 2019 , 178, 980-990. 2019	9.1	17
82	Energy avalanches in a rice-pile model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 231, 608-614	3.3	17
81	Economic insecurity and the rise in gun violence at US schools. <i>Nature Human Behaviour</i> , 2017 , 1,	12.8	16
80	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,	7	16
79	Long-range correlations and fractal dynamics in <i>C. elegans</i> : Changes with aging and stress. <i>Physical Review E</i> , 2017 , 96, 022417	2.4	12
78	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	2.8	12
77	Changes in task-related functional connectivity across multiple spatial scales are related to reading performance. <i>PLoS ONE</i> , 2013 , 8, e59204	3.7	12

76	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	1.6	12
75	THE DISTRIBUTION OF RETURNS OF STOCK PRICES. <i>International Journal of Theoretical and Applied Finance</i> , 2000 , 03, 365-369	0.5	12
74	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	12
73	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	2.7	11
72	Sexual contacts and epidemic thresholds. <i>Nature</i> , 2003 , 423, 606-606	50.4	11
71	A universal information theoretic approach to the identification of stopwords. <i>Nature Machine Intelligence</i> , 2019 , 1, 606-612	22.5	11
70	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	8.3	10
69	Use of a global metabolic network to curate organismal metabolic networks. <i>Scientific Reports</i> , 2013 , 3, 1695	4.9	10
68	Application of statistical physics methods and concepts to the study of science & technology systems. <i>Scientometrics</i> , 2001 , 51, 9-36	3	10
67	SCALING AND UNIVERSALITY IN LIVING SYSTEMS. <i>Fractals</i> , 1996 , 04, 427-451	3.2	10
66	Depletion of Shine-Dalgarno Sequences Within Bacterial Coding Regions Is Expression Dependent. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 3467-3474	3.2	10
65	Move-by-move dynamics of the advantage in chess matches reveals population-level learning of the game. <i>PLoS ONE</i> , 2013 , 8, e54165	3.7	9
64	Physically grounded approach for estimating gene expression from microarray data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13690-5	11.5	9
63	Micro-bias and macro-performance. <i>European Physical Journal B</i> , 2009 , 67, 369-375	1.2	9
62	Impurity-induced diffusion bias in epitaxial growth. <i>Physical Review E</i> , 1997 , 55, 7785-7788	2.4	9
61	Comment on Kinetic Roughening in Slow Combustion of Paper. <i>Physical Review Letters</i> , 1998 , 80, 5706-5706	0.6	9
60	Scale-invariant correlations in the biological and social sciences. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998 , 77, 1373-1388		9
59	NullSeq: A Tool for Generating Random Coding Sequences with Desired Amino Acid and GC Contents. <i>PLoS Computational Biology</i> , 2016 , 12, e1005184	5	9

58	Comparison of methods for the detection of node group membership in bipartite networks. <i>European Physical Journal B</i> , 2009 , 72, 671-677	1.2	8
57	Quantifying economic fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 302, 126-137	3.7	8
56	ANOMALOUS INTERFACE ROUGHENING: THE ROLE OF A GRADIENT IN THE DENSITY OF PINNING SITES. <i>Fractals</i> , 1993 , 01, 818-826	3.2	8
55	Large-scale analysis of micro-level citation patterns reveals nuanced selection criteria. <i>Nature Human Behaviour</i> , 2019 , 3, 568-575	12.8	7
54	Impact of heterogeneity and socioeconomic factors on individual behavior in decentralized sharing ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15322-7	11.5	7
53	ECONOPHYSICS: WHAT CAN PHYSICISTS CONTRIBUTE TO ECONOMICS?. <i>International Journal of Theoretical and Applied Finance</i> , 2000 , 03, 335-346	0.5	7
52	COVID-19 research risks ignoring important host genes due to pre-established research patterns. <i>ELife</i> , 2020 , 9,	8.9	7
51	How to build a more open justice system. <i>Science</i> , 2020 , 369, 134-136	33.3	6
50	A network approach to discerning the identities of C. elegans in a free moving population. <i>Scientific Reports</i> , 2016 , 6, 34859	4.9	6
49	Within-Gene Shine-Dalgarno Sequences Are Not Selected for Function. <i>Molecular Biology and Evolution</i> , 2018 , 35, 2487-2498	8.3	6
48	Ecological engineering and sustainability: A new opportunity for chemical engineering. <i>AIChE Journal</i> , 2008 , 54, 3040-3047	3.6	6
47	Dynamics of temporal correlation in daily Internet traffic		6
46	Drosophila Eye Nuclei Segmentation Based on Graph Cut and Convex Shape Prior 2013 , 670-674		5
45	The impact of individual biases on consensus formation. <i>PLoS ONE</i> , 2013 , 8, e58989	3.7	5
44	A novel framework for evaluating the performance of codon usage bias metrics. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	4
43	Evolution of protein families: is it possible to distinguish between domains of life?. <i>Gene</i> , 2007 , 402, 81-93	3.8	4
42	AVALANCHES IN THE DIRECTED PERCOLATION DEPINNING AND SELF-ORGANIZED DEPINNING MODELS OF INTERFACE ROUGHENING. <i>Fractals</i> , 1996 , 04, 307-319	3.2	4
41	Centrality anomalies in complex networks as a result of model over-simplification. <i>New Journal of Physics</i> , 2020 , 22, 013043	2.9	4

40	Complex fluctuations and robustness in stylized signalling networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, P01013-P01013	1.9	3
39	Application of computational statistical physics to scale invariance and universality in economic phenomena. <i>Computer Physics Communications</i> , 2002 , 146, 84-92	4.2	3
38	Monte Carlo simulation of the methylchloride liquid-vapour interface. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 1919-1934	1.8	3
37	Aging is associated with a systemic length-driven transcriptome imbalance		3
36	A quantitative approach for the analysis of clinician recognition of acute respiratory distress syndrome using electronic health record data. <i>PLoS ONE</i> , 2019 , 14, e0222826	3.7	2
35	Moving the Science of Quality Improvement in Critical Care Medicine Forward. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011 , 184, 383-384	10.2	2
34	Phenomenological model for predicting the catabolic potential of an arbitrary nutrient. <i>PLoS Computational Biology</i> , 2012 , 8, e1002762	5	2
33	A Random Matrix Theory Approach to Quantifying Collective Behavior of Stock Price Fluctuations 2002 , 35-40		2
32	Scale invariance and universality in economic phenomena. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2121-2131	1.8	2
31	The characteristics of early-stage research into human genes are substantially different from subsequent research.. <i>PLoS Biology</i> , 2022 , 20, e3001520	9.7	2
30	A solution to the challenge of optimization on "golf-course"-like fitness landscapes. <i>PLoS ONE</i> , 2013 , 8, e78401	3.7	2
29	Reply to: Four personality types may be neither robust nor exhaustive. <i>Nature Human Behaviour</i> , 2019 , 3, 1047-1048	12.8	2
28	Conformational stability of the bacterial adhesin, FimH, with an inactivating mutation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021 , 89, 276-288	4.2	2
27	Reply to "Far away from the lamppost". <i>PLoS Biology</i> , 2018 , 16, e3000075	9.7	2
26	Scaling and optimal synergy: Two principles determining microbial growth in complex media. <i>Physical Review E</i> , 2015 , 91, 062703	2.4	1
25	Fly-QMA: Automated analysis of mosaic imaginal discs in <i>Drosophila</i> . <i>PLoS Computational Biology</i> , 2020 , 16, e1007406	5	1
24	User Behavior and Change 2014 ,		1
23	Ratio-based sensing of two transcription factors regulates the transit to differentiation		1

22	Spreader events and the limitations of projected networks for capturing dynamics on multipartite networks. <i>Physical Review E</i> , 2021 , 103, 022320	2.4	1
21	Fluctuations and their correlations in econophysics 1999 , 197-210		o
20	Long-term patterns of gender imbalance in an industry without ability or level of interest differences. <i>PLoS ONE</i> , 2020 , 15, e0229662	3.7	o
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