

Lus A N Amaral

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4197482/luis-a-n-amaral-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
200	The first step is recognizing there is a problem: a methodology for adjusting for variability in disease severity when estimating clinician performance.. <i>BMC Medical Research Methodology</i> , 2022 , 22, 69	4.7	
199	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
198	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
197	Fly-QMA: Automated analysis of mosaic imaginal discs in Drosophila. <i>PLoS Computational Biology</i> , 2020 , 16, e1007406	5	1
196	How to build a more open justice system. <i>Science</i> , 2020 , 369, 134-136	33.3	6
195	COVID-19 research risks ignoring important host genes due to pre-established research patterns. <i>ELife</i> , 2020 , 9,	8.9	7
194	Centrality anomalies in complex networks as a result of model over-simplification. <i>New Journal of Physics</i> , 2020 , 22, 013043	2.9	4
193	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	0
192	Fly-QMA: Automated analysis of mosaic imaginal discs in Drosophila 2020 , 16, e1007406		
191	Fly-QMA: Automated analysis of mosaic imaginal discs in Drosophila 2020 , 16, e1007406		
190	Fly-QMA: Automated analysis of mosaic imaginal discs in Drosophila 2020 , 16, e1007406		
189	Fly-QMA: Automated analysis of mosaic imaginal discs in Drosophila 2020 , 16, e1007406		
188	Long-term patterns of gender imbalance in an industry without ability or level of interest differences 2020 , 15, e0229662		
187	Long-term patterns of gender imbalance in an industry without ability or level of interest differences 2020 , 15, e0229662		
186	Long-term patterns of gender imbalance in an industry without ability or level of interest differences 2020 , 15, e0229662		
185	Long-term patterns of gender imbalance in an industry without ability or level of interest differences 2020 , 15, e0229662		

184	Long-term patterns of gender imbalance in an industry without ability or level of interest differences 2020 , 15, e0229662		
183	Long-term patterns of gender imbalance in an industry without ability or level of interest differences 2020 , 15, e0229662		
182	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
181	Large-scale analysis of micro-level citation patterns reveals nuanced selection criteria. <i>Nature Human Behaviour</i> , 2019 , 3, 568-575	12.8	7
180	Repressive Gene Regulation Synchronizes Development with Cellular Metabolism. <i>Cell</i> , 2019 , 178, 980-992.e1717	9.1	17
179	Reply to: Four personality types may be neither robust nor exhaustive. <i>Nature Human Behaviour</i> , 2019 , 3, 1047-1048	12.8	2
178	A universal information theoretic approach to the identification of stopwords. <i>Nature Machine Intelligence</i> , 2019 , 1, 606-612	22.5	11
177	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
176	A quantitative approach for the analysis of clinician recognition of acute respiratory distress syndrome using electronic health record data 2019 , 14, e0222826		
175	A quantitative approach for the analysis of clinician recognition of acute respiratory distress syndrome using electronic health record data 2019 , 14, e0222826		
174	A quantitative approach for the analysis of clinician recognition of acute respiratory distress syndrome using electronic health record data 2019 , 14, e0222826		
173	A quantitative approach for the analysis of clinician recognition of acute respiratory distress syndrome using electronic health record data 2019 , 14, e0222826		
172	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
171	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
170	Within-Genome Shine-Dalgarno Sequences Are Not Selected for Function. <i>Molecular Biology and Evolution</i> , 2018 , 35, 2487-2498	8.3	6
169	Reply to "Far away from the lamppost". <i>PLoS Biology</i> , 2018 , 16, e3000075	9.7	2
168	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
167	Large-scale investigation of the reasons why potentially important genes are ignored. <i>PLoS Biology</i> , 2018 , 16, e2006643	9.7	107

166	Economic insecurity and the rise in gun violence at US schools. <i>Nature Human Behaviour</i> , 2017 , 1,	12.8	16
165	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
164	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
163	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
162	A network approach to discerning the identities of <i>C. elegans</i> in a free moving population. <i>Scientific Reports</i> , 2016 , 6, 34859	4.9	6
161	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
160	Differences in Collaboration Patterns across Discipline, Career Stage, and Gender. <i>PLoS Biology</i> , 2016 , 14, e1002573	9.7	56
159	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
158	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
157	Scaling and optimal synergy: Two principles determining microbial growth in complex media. <i>Physical Review E</i> , 2015 , 91, 062703	2.4	1
156	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
155	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
154	High-Reproducibility and High-Accuracy Method for Automated Topic Classification. <i>Physical Review X</i> , 2015 , 5,	9.1	28
153	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
152	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
151	Dynamics and heterogeneity of a fate determinant during transition towards cell differentiation. <i>ELife</i> , 2015 , 4,	8.9	25
150	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
149	User Behavior and Change 2014 ,		1

148	Quantifying position-dependent codon usage bias. <i>Molecular Biology and Evolution</i> , 2014 , 31, 1880-93	8.3	24
147	Adoption of a High-Impact Innovation in a Homogeneous Population. <i>Physical Review X</i> , 2014 , 4, 041008	9.1	25
146	Drosophila Eye Nuclei Segmentation Based on Graph Cut and Convex Shape Prior	2013 , 670-674	5
145	Use of a global metabolic network to curate organismal metabolic networks. <i>Scientific Reports</i> , 2013 , 3, 1695	4.9	10
144	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
143	The impact of individual biases on consensus formation. <i>PLoS ONE</i> , 2013 , 8, e58989	3.7	5
142	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
141	A solution to the challenge of optimization on "golf-course"-like fitness landscapes. <i>PLoS ONE</i> , 2013 , 8, e78401	3.7	2
140	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
139	Rationality, irrationality and escalating behavior in lowest unique bid auctions. <i>PLoS ONE</i> , 2012 , 7, e29910	3.7	26
138	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
137	Phenomenological model for predicting the catabolic potential of an arbitrary nutrient. <i>PLoS Computational Biology</i> , 2012 , 8, e1002762	5	2
136	Duality between time series and networks. <i>PLoS ONE</i> , 2011 , 6, e23378	3.7	135
135	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
134	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
133	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
132	The role of mentorship in prototyping performance. <i>Nature</i> , 2010 , 465, 622-6	50.4	92
131	Quantifying the performance of individual players in a team activity. <i>PLoS ONE</i> , 2010 , 5, e10937	3.7	179

130	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
129	Education. Complex systems view of educational policy research. <i>Science</i> , 2010 , 330, 38-9	33.3	55
128	Origin of compartmentalization in food webs. <i>Ecology</i> , 2010 , 91, 2941-51	4.6	94
127	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
126	Levels of complexity in scale-invariant neural signals. <i>Physical Review E</i> , 2009 , 79, 041920	2.4	96
125	On universality in human correspondence activity. <i>Science</i> , 2009 , 325, 1696-700	33.3	146
124	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
123	Micro-bias and macro-performance. <i>European Physical Journal B</i> , 2009 , 67, 369-375	1.2	9
122	Detection of node group membership in networks with group overlap. <i>European Physical Journal B</i> , 2009 , 67, 277-284	1.2	37
121	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
120	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
119	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
118	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
117	Effectiveness of journal ranking schemes as a tool for locating information. <i>PLoS ONE</i> , 2008 , 3, e1683	3.7	109
116	Ecological engineering and sustainability: A new opportunity for chemical engineering. <i>AIChE Journal</i> , 2008 , 54, 3040-3047	3.6	6
115	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
114	Small-world networks and management science research: a review. <i>European Management Review</i> , 2007 , 4, 77-91	2.1	135
113	Quantitative analysis of the local structure of food webs. <i>Journal of Theoretical Biology</i> , 2007 , 246, 260-82.3		41

112	Classes of complex networks defined by role-to-role connectivity profiles. <i>Nature Physics</i> , 2007 , 3, 63-69	16.2	293
111	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
110	Complex fluctuations and robustness in stylized signalling networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, P01013-P01013	1.9	3
109	Module identification in bipartite and directed networks. <i>Physical Review E</i> , 2007 , 76, 036102	2.4	269
108	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
107	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
106	A network-based method for target selection in metabolic networks. <i>Bioinformatics</i> , 2007 , 23, 1616-22	7.2	47
105	Evolution of protein families: is it possible to distinguish between domains of life?. <i>Gene</i> , 2007 , 402, 81-93	3.8	4
104	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
103	Team assembly mechanisms determine collaboration network structure and team performance. <i>Science</i> , 2005 , 308, 697-702	33.3	660
102	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
101	QUANTITATIVE PATTERNS IN THE STRUCTURE OF MODEL AND EMPIRICAL FOOD WEBS. <i>Ecology</i> , 2005 , 86, 1301-1311	4.6	129
100	Cartography of complex networks: modules and universal roles. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005 , 2005, nihpa35573	1.9	365
99	Functional cartography of complex metabolic networks. <i>Nature</i> , 2005 , 433, 895-900	50.4	2293
98	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
97	Canalizing Kauffman networks: nonergodicity and its effect on their critical behavior. <i>Physical Review Letters</i> , 2005 , 94, 218702	7.4	50
96	Mesosopic modeling for nucleic acid chain dynamics. <i>Physical Review E</i> , 2005 , 71, 051902	2.4	37
95	Heuristic segmentation of a nonstationary time series. <i>Physical Review E</i> , 2004 , 69, 021108	2.4	37

94	Modularity from fluctuations in random graphs and complex networks. <i>Physical Review E</i> , 2004 , 70, 025101	11.5	550
93	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
92	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
91	Virtual Round Table on ten leading questions for network research. <i>European Physical Journal B</i> , 2004 , 38, 143-145	1.2	35
90	Complex networks. <i>European Physical Journal B</i> , 2004 , 38, 147-162	1.2	298
89	Modeling the world-wide airport network. <i>European Physical Journal B</i> , 2004 , 38, 381-385	1.2	290
88	Complex systems and networks: challenges and opportunities for chemical and biological engineers. <i>Chemical Engineering Science</i> , 2004 , 59, 1653-1666	4.4	38
87	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
86	Statistical Properties of Commodity Price Fluctuations 2004 , 192-197		
85	Similarities between communication dynamics in the Internet and the autonomic nervous system. <i>Europhysics Letters</i> , 2003 , 62, 189-195	1.6	25
84	Sexual networks: implications for the transmission of sexually transmitted infections. <i>Microbes and Infection</i> , 2003 , 5, 189-96	9.3	190
83	Sexual contacts and epidemic thresholds. <i>Nature</i> , 2003 , 423, 606-606	50.4	11
82	Asymmetrical singularities in real-world signals. <i>Physical Review E</i> , 2003 , 68, 065204	2.4	41
81	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
80	Analytical solution of a model for complex food webs. <i>Physical Review E</i> , 2002 , 65, 030901	2.4	45
79	Dynamics of sleep-wake transitions during sleep. <i>Europhysics Letters</i> , 2002 , 57, 625-631	1.6	137
78	Extremum statistics in scale-free network models. <i>Physical Review Letters</i> , 2002 , 89, 268703	7.4	33
77	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

76	A Random Matrix Theory Approach to Quantifying Collective Behavior of Stock Price Fluctuations 2002 , 35-40		2
75	Scale invariance and universality in economic phenomena. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2121-2131	1.8	2
74	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
73	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
72	Robust patterns in food web structure. <i>Physical Review Letters</i> , 2002 , 88, 228102	7.4	207
71	Different scaling behaviors of commodity spot and future prices. <i>Physical Review E</i> , 2002 , 66, 045103	2.4	50
70	Random matrix approach to cross correlations in financial data. <i>Physical Review E</i> , 2002 , 65, 066126	2.4	581
69	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
68	Quantifying Empirical Economic Fluctuations using the Organizing Principles of Scale Invariance and Universality 2002 , 3-11		
67	Price fluctuations and Market Activity 2002 , 12-17		
66	Modelling the Growth Statistics of Economic Organizations 2002 , 313-320		
65	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
64	Price fluctuations and market activity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 137-143	3.3	27
63	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
62	Similarities and differences between physics and economics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 1-15	3.3	63
61	Quantifying economic fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 302, 126-137	3.3	8
60	Application of statistical physics methods and concepts to the study of science & technology systems. <i>Scientometrics</i> , 2001 , 51, 9-36	3	10
59	The web of human sexual contacts. <i>Nature</i> , 2001 , 411, 907-8	50.4	1175

58	From 1/f noise to multifractal cascades in heartbeat dynamics. <i>Chaos</i> , 2001 , 11, 641-652	3.3	328
57	Behavioral-independent features of complex heartbeat dynamics. <i>Physical Review Letters</i> , 2001 , 86, 6026-9	7.4	219
56	Scale invariance in the nonstationarity of human heart rate. <i>Physical Review Letters</i> , 2001 , 87, 168105	7.4	165
55	Price fluctuations, market activity and trading volume. <i>Quantitative Finance</i> , 2001 , 1, 262-269	1.6	86
54	Small-world networks and the conformation space of a short lattice polymer chain. <i>Europhysics Letters</i> , 2001 , 55, 594-600	1.6	70
53	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
52	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
51	Scale invariance and universality of economic fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 283, 31-41	3.3	37
50	Scaling and correlation in financial time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 287, 362-373	3.3	107
49	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
48	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
47	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
46	ECONOPHYSICS: WHAT CAN PHYSICISTS CONTRIBUTE TO ECONOMICS?. <i>International Journal of Theoretical and Applied Finance</i> , 2000 , 03, 335-346	0.5	7
45	THE DISTRIBUTION OF RETURNS OF STOCK PRICES. <i>International Journal of Theoretical and Applied Finance</i> , 2000 , 03, 365-369	0.5	12
44	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
43	PhysioBank, PhysioToolkit, and PhysioNet: components of a new research resource for complex physiologic signals. <i>Circulation</i> , 2000 , 101, E215-20	16.7	6573
42	Economic fluctuations and anomalous diffusion. <i>Physical Review E</i> , 2000 , 62, R3023-6	2.4	173
41	Fluctuations and their correlations in econophysics 1999 , 197-210		0

40	Environmental Changes, Coextinction, and Patterns in the Fossil Record. <i>Physical Review Letters</i> , 1999 , 82, 652-655	7.4	56
39	Small-World Networks: Evidence for a Crossover Picture. <i>Physical Review Letters</i> , 1999 , 82, 3180-3183	7.4	199
38	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
37	Application of statistical physics to heartbeat diagnosis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 274, 99-110	3.3	96
36	Statistical physics and physiology: monofractal and multifractal approaches. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 270, 309-24	3.3	257
35	Multifractality in human heartbeat dynamics. <i>Nature</i> , 1999 , 399, 461-5	50.4	1214
34	Similarities between the growth dynamics of university research and of competitive economic activities. <i>Nature</i> , 1999 , 400, 433-437	50.4	124
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	1.6	197
32	Universal and Nonuniversal Properties of Cross Correlations in Financial Time Series. <i>Physical Review Letters</i> , 1999 , 83, 1471-1474	7.4	764
31	Scaling of the distribution of price fluctuations of individual companies. <i>Physical Review E</i> , 1999 , 60, 6519-29	12.4	402
30	Scaling of the distribution of fluctuations of financial market indices. <i>Physical Review E</i> , 1999 , 60, 5305-16	16.4	610
29	Scaling the volatility of GDP growth rates. <i>Economics Letters</i> , 1998 , 60, 335-341	1.3	114
28	Inverse cubic law for the distribution of stock price variations. <i>European Physical Journal B</i> , 1998 , 3, 139-140	14.0	389
27	Stochastic feedback and the regulation of biological rhythms. <i>Europhysics Letters</i> , 1998 , 43, 363-8	1.6	183
26	Universal Features in the Growth Dynamics of Complex Organizations. <i>Physical Review Letters</i> , 1998 , 81, 3275-3278	7.4	194
25	Comment on Kinetic Roughening in Slow Combustion of Paper□ <i>Physical Review Letters</i> , 1998 , 80, 5706-5706	7.4	9
24	Scale-independent measures and pathologic cardiac dynamics. <i>Physical Review Letters</i> , 1998 , 81, 2388-91	7.4	115
23	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

22	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
21	Universality classes for rice-pile models. <i>Physical Review E</i> , 1997 , 56, 231-234	2.4 18
20	Impurity-induced diffusion bias in epitaxial growth. <i>Physical Review E</i> , 1997 , 55, 7785-7788	2.4 9
19	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
18	CAN STATISTICAL PHYSICS CONTRIBUTE TO THE SCIENCE OF ECONOMICS?. <i>Fractals</i> , 1996 , 04, 415-425	3.2 30
17	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
16	Scaling and universality in animate and inanimate systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 231, 20-48	3.3 36
15	Energy avalanches in a rice-pile model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 231, 608-614	3.3 17
14	Scaling behaviour in the growth of companies. <i>Nature</i> , 1996 , 379, 804-806	50.4 534
13	AVALANCHES IN THE DIRECTED PERCOLATION DEPINNING AND SELF-ORGANIZED DEPINNING MODELS OF INTERFACE ROUGHENING. <i>Fractals</i> , 1996 , 04, 307-319	3.2 4
12	Self-organized criticality in a rice-pile model. <i>Physical Review E</i> , 1996 , 54, R4512-R4515	2.4 32
11	SCALING AND UNIVERSALITY IN LIVING SYSTEMS. <i>Fractals</i> , 1996 , 04, 427-451	3.2 10
10	Avalanches and the directed percolation depinning model: Experiments, simulations, and theory. <i>Physical Review E</i> , 1995 , 51, 4655-4673	2.4 51
9	Scaling properties of driven interfaces in disordered media. <i>Physical Review E</i> , 1995 , 52, 4087-4104	2.4 75
8	Dynamics of surface roughening with quenched disorder. <i>Physical Review Letters</i> , 1995 , 74, 4205-4208	7.4 21
7	New exponent characterizing the effect of evaporation on imbibition experiments. <i>Physical Review Letters</i> , 1994 , 72, 641-644	7.4 40
6	Universality classes for interface growth with quenched disorder. <i>Physical Review Letters</i> , 1994 , 73, 62-65	7.4 95
5	ANOMALOUS INTERFACE ROUGHENING: THE ROLE OF A GRADIENT IN THE DENSITY OF PINNING SITES. <i>Fractals</i> , 1993 , 01, 818-826	3.2 8

4	Monte Carlo simulation of the methylchloride liquid-vapour interface. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 1919-1934	1.8	3
3	Dynamics of temporal correlation in daily Internet traffic		6
2	Ratio-based sensing of two transcription factors regulates the transit to differentiation		1
1	Aging is associated with a systemic length-driven transcriptome imbalance		3