Harry Eugene Stanley

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8521974/publications.pdf

Version: 2024-02-01

663	94,819	336	329
papers	citations	137 h-index	287 g-index

696	696	696	43492
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PhysioBank, PhysioToolkit, and PhysioNet. Circulation, 2000, 101, E215-20.	1.6	10,241
2	Catastrophic cascade of failures in interdependent networks. Nature, 2010, 464, 1025-1028.	27.8	3,326
3	Quantification of scaling exponents and crossover phenomena in nonstationary heartbeat time series. Chaos, 1995, 5, 82-87.	2.5	3,180
4	Identification of influential spreaders in complex networks. Nature Physics, 2010, 6, 888-893.	16.7	2,386
5	Fractal dynamics in physiology: Alterations with disease and aging. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2466-2472.	7.1	1,731
6	The relationship between liquid, supercooled and glassy water. Nature, 1998, 396, 329-335.	27.8	1,701
7	Phase behaviour of metastable water. Nature, 1992, 360, 324-328.	27.8	1,652
8	Scaling behaviour in the dynamics of an economic index. Nature, 1995, 376, 46-49.	27.8	1,560
9	Multifractality in human heartbeat dynamics. Nature, 1999, 399, 461-465.	27.8	1,474
10	The web of human sexual contacts. Nature, 2001, 411, 907-908.	27.8	1,384
11	Optimizing the success of random searches. Nature, 1999, 401, 911-914.	27.8	1,370
12	The spreading of misinformation online. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 554-559.	7.1	1,318
13	Detrended Cross-Correlation Analysis: A New Method for Analyzing Two Nonstationary Time Series. Physical Review Letters, 2008, 100, 084102.	7.8	1,206
14	Effect of trends on detrended fluctuation analysis. Physical Review E, 2001, 64, 011114.	2.1	1,070
15	A theory of power-law distributions in financial market fluctuations. Nature, 2003, 423, 267-270.	27.8	1,059
16	Networks formed from interdependent networks. Nature Physics, 2012, 8, 40-48.	16.7	961
17	Universal and Nonuniversal Properties of Cross Correlations in Financial Time Series. Physical Review Letters, 1999, 83, 1471-1474.	7.8	913
18	Interpretation of the unusual behavior of H2O and D2O at low temperatures: Tests of a percolation model. Journal of Chemical Physics, 1980, 73, 3404-3422.	3.0	797

#	Article	IF	Citations
19	Effect of nonstationarities on detrended fluctuation analysis. Physical Review E, 2002, 65, 041107.	2.1	792
20	Random matrix approach to cross correlations in financial data. Physical Review E, 2002, 65, 066126.	2.1	758
21	Scaling of the distribution of fluctuations of financial market indices. Physical Review E, 1999, 60, 5305-5316.	2.1	745
22	Scaling, universality, and renormalization: Three pillars of modern critical phenomena. Reviews of Modern Physics, 1999, 71, S358-S366.	45.6	743
23	Revisiting LÃ©vy flight search patterns of wandering albatrosses, bumblebees and deer. Nature, 2007, 449, 1044-1048.	27.8	736
24	Stochastic Process with Ultraslow Convergence to a Gaussian: The Truncated LÃ©vy Flight. Physical Review Letters, 1994, 73, 2946-2949.	7.8	731
25	Quantifying Trading Behavior in Financial Markets Using Google Trends. Scientific Reports, 2013, 3, 1684.	3.3	644
26	Scaling behaviour in the growth of companies. Nature, 1996, 379, 804-806.	27.8	637
27	Statistical properties of the volatility of price fluctuations. Physical Review E, 1999, 60, 1390-1400.	2.1	631
28	Water: A Tale of Two Liquids. Chemical Reviews, 2016, 116, 7463-7500.	47.7	627
29	Multifractal phenomena in physics and chemistry. Nature, 1988, 335, 405-409.	27.8	604
30	Fractal growth viscous fingers: quantitative characterization of a fluid instability phenomenon. Nature, 1985, 314, 141-144.	27.8	595
31	Cross-correlations between volume change and price change. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22079-22084.	7.1	590
32	Decompression-induced melting of ice IV and the liquidâ€“liquid transition in water. Nature, 1998, 392, 164-168.	27.8	509
33	Robustness of a Network of Networks. Physical Review Letters, 2011, 107, 195701.	7.8	509
34	Scaling behaviour of heartbeat intervals obtained by wavelet-based time-series analysis. Nature, 1996, 383, 323-327.	27.8	477
35	Supercooled and Glassy Water. Physics Today, 2003, 56, 40-46.	0.3	470
36	Scaling of the distribution of price fluctuations of individual companies. Physical Review E, 1999, 60, 6519-6529.	2.1	466

#	Article	IF	Citations
37	The H-index of a network node and its relation to degree and coreness. Nature Communications, 2016, 7, 10168.	12.8	447
38	Large-cell Monte Carlo renormalization group for percolation. Physical Review B, 1980, 21, 1223-1245.	3.2	439
39	From 1/f noise to multifractal cascades in heartbeat dynamics. Chaos, 2001, 11, 641-652.	2.5	431
40	Effect of Hydrogen Bonds on the Thermodynamic Behavior of Liquid Water. Physical Review Letters, 1994, 73, 1632-1635.	7.8	409
41	Robustness of interdependent networks under targeted attack. Physical Review E, 2011, 83, 065101.	2.1	408
42	Modelling urban growth patterns. Nature, 1995, 377, 608-612.	27.8	392
43	Tip splitting without interfacial tension and dendritic growth patterns arising from molecular anisotropy. Nature, 1986, 321, 663-668.	27.8	389
44	Statistical tests for power-law cross-correlated processes. Physical Review E, 2011, 84, 066118.	2.1	389
45	Generic mechanism for generating a liquidâ€“liquid phase transition. Nature, 2001, 409, 692-695.	27.8	367
46	Magnitude and Sign Correlations in Heartbeat Fluctuations. Physical Review Letters, 2001, 86, 1900-1903.	7.8	361
47	Method for generating long-range correlations for large systems. Physical Review E, 1996, 53, 5445-5449.	2.1	355
48	Percolation transition in dynamical traffic network with evolving critical bottlenecks. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 669-672.	7.1	349
49	Effect of defects on molecular mobility in liquid water. Nature, 1991, 354, 218-221.	27.8	339
50	Spontaneous stratification in granular mixtures. Nature, 1997, 386, 379-382.	27.8	335
51	Statistical physics and physiology: Monofractal and multifractal approaches. Physica A: Statistical Mechanics and Its Applications, 1999, 270, 309-324.	2.6	323
52	Configurational entropy and diffusivity of supercooled water. Nature, 2000, 406, 166-169.	27.8	323
53	Turbulence and financial markets. Nature, 1996, 383, 587-588.	27.8	318
54	Cascade of failures in coupled network systems with multiple support-dependence relations. Physical Review E, 2011, 83, 036116.	2.1	315

#	Article	IF	Citations
55	Toward link predictability of complex networks. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2325-2330.	7.1	315
56	Behavioral-Independent Features of Complex Heartbeat Dynamics. Physical Review Letters, 2001, 86, 6026-6029.	7.8	305
57	Correlations in economic time series. Physica A: Statistical Mechanics and Its Applications, 1997, 245, 437-440.	2.6	292
58	Discrete molecular dynamics studies of the folding of a protein-like model. Folding & Design, 1998, 3, 577-587.	4.5	283
59	Liquid-Liquid Phase Transition: Evidence from Simulations. Physical Review Letters, 1997, 78, 2409-2412.	7.8	270
60	Statistical properties of share volume traded in financial markets. Physical Review E, 2000, 62, R4493-R4496.	2.1	268
61	Avalanches and power-law behaviour in lung inflation. Nature, 1994, 368, 615-618.	27.8	267
62	Zipf plots and the size distribution of firms. Economics Letters, 1995, 49, 453-457.	1.9	267
63	Effect of hydrogen bond cooperativity on the behavior of water. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1301-1306.	7.1	263
64	Phase transitions in confined water nanofilms. Nature Physics, 2010, 6, 685-689.	16.7	261
65	Network defects and molecular mobility in liquid water. Journal of Chemical Physics, 1992, 96, 3857-3865.	3.0	255
66	Quantifying signals with power-law correlations: A comparative study of detrended fluctuation analysis and detrended moving average techniques. Physical Review E, 2005, 71, 051101.	2.1	254
67	Mechanism for the ?-helix to ?-hairpin transition. Proteins: Structure, Function and Bioinformatics, 2003, 53, 220-228.	2.6	252
68	Spontaneous recovery in dynamical networks. Nature Physics, 2014, 10, 34-38.	16.7	251
69	Quantifying Fractal Dynamics of Human Respiration: Age and Gender Effects. Annals of Biomedical Engineering, 2002, 30, 683-692.	2.5	247
70	Unification of theoretical approaches for epidemic spreading on complex networks. Reports on Progress in Physics, 2017, 80, 036603.	20.1	244
71	Finding a Better Immunization Strategy. Physical Review Letters, 2008, 101, 058701.	7.8	237
72	The science of science: From the perspective of complex systems. Physics Reports, 2017, 714-715, 1-73.	25.6	234

#	Article	IF	Citations
73	Spontaneously ordered motion of self-propelled particles. Journal of Physics A, 1997, 30, 1375-1385.	1.6	233
74	Power Law Scaling for a System of Interacting Units with Complex Internal Structure. Physical Review Letters, 1998, 80, 1385-1388.	7.8	231
75	Common scale-invariant patterns of sleep-wake transitions across mammalian species. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17545-17548.	7.1	231
76	Scaling and memory in volatility return intervals in financial markets. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9424-9428.	7.1	229
77	Quantifying Wikipedia Usage Patterns Before Stock Market Moves. Scientific Reports, 2013, 3, .	3.3	226
78	Universal Features in the Growth Dynamics of Complex Organizations. Physical Review Letters, 1998, 81, 3275-3278.	7.8	225
79	Interplay between Time-Temperature Transformation and the Liquid-Liquid Phase Transition in Water. Physical Review Letters, 2002, 88, 195701.	7.8	225
80	Scale Invariance in the Nonstationarity of Human Heart Rate. Physical Review Letters, 2001, 87, 168105.	7.8	222
81	Reputation and impact in academic careers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15316-15321.	7.1	222
82	Appearance of a fractional Stokesâ€“Einstein relation in water and a structural interpretation ofÂits onset. Nature Physics, 2009, 5, 565-569.	16.7	219
83	Effect of nonlinear filters on detrended fluctuation analysis. Physical Review E, 2005, 71, 011104.	2.1	215
84	Dynamics of simulated water under pressure. Physical Review E, 1999, 60, 6757-6768.	2.1	213
85	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
86	Fast and Slow Dynamics of Hydrogen Bonds in Liquid Water. Physical Review Letters, 1999, 82, 2294-2297.	7.8	211
87	Cascading Failures in Interdependent Lattice Networks: The Critical Role of the Length of Dependency Links. Physical Review Letters, 2012, 108, 228702.	7.8	211
88	Economic fluctuations and anomalous diffusion. Physical Review E, 2000, 62, R3023-R3026.	2.1	210
89	First-Order Transition in the Breakdown of Disordered Media. Physical Review Letters, 1997, 78, 1408-1411.	7.8	207
90	Complex dynamics of our economic life on different scales: insights from search engine query data. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5707-5719.	3.4	207

#	Article	IF	Citations
91	Thermodynamics, structure, and dynamics of water confined between hydrophobic plates. Physical Review E, 2005, 72, 051503.	2.1	206
92	Modeling urban growth patterns with correlated percolation. Physical Review E, 1998, 58, 7054-7062.	2.1	205
93	Elucidating Amyloid Î²-Protein Folding and Assembly:â€‰ A Multidisciplinary Approach. Accounts of Chemical Research, 2006, 39, 635-645.	15.6	203
94	Spinodal of liquid water. Physical Review E, 1993, 48, 3799-3817.	2.1	199
95	Plasticity and avalanche behaviour in microfracturing phenomena. Nature, 1997, 388, 658-660.	27.8	197
96	Transport properties of glass-forming liquids suggest that dynamic crossover temperature is as important as the glass transition temperature. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22457-22462.	7.1	197
97	Gravity model in the Korean highway. Europhysics Letters, 2008, 81, 48005.	2.0	194
98	Volatility distribution in the S&P500 stock index. Physica A: Statistical Mechanics and Its Applications, 1997, 245, 441-445.	2.6	193
99	Viscous fingering of HCI through gastric mucin. Nature, 1992, 360, 458-461.	27.8	192
100	Metalâ€“insulator transition in chains with correlated disorder. Nature, 2002, 418, 955-959.	27.8	192
101	Liquid-State Anomalies and the Stell-Hemmer Core-Softened Potential. Physical Review Letters, 1998, 81, 4895-4898.	7.8	188
102	Quantifying stock-price response to demand fluctuations. Physical Review E, 2002, 66, 027104.	2.1	186
103	Dynamics of spreading phenomena in two-dimensional Ising models. Physical Review Letters, 1987, 59, 2326-2328.	7.8	185
104	Building Blocks of Percolation Clusters: Volatile Fractals. Physical Review Letters, 1984, 53, 1121-1124.	7.8	183
105	Phase diagram for amorphous solid water. Physical Review E, 1993, 48, 4605-4610.	2.1	181
106	Stochastic Model for Surface Erosion via Ion Sputtering: Dynamical Evolution from Ripple Morphology to Rough Morphology. Physical Review Letters, 1995, 75, 4464-4467.	7.8	179
107	Detrended partial cross-correlation analysis of two nonstationary time series influenced by common external forces. Physical Review E, 2015, 91, 062816.	2.1	178
108	Quantitative and empirical demonstration of the Matthew effect in a study of career longevity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18-23.	7.1	177

#	Article	IF	Citations
109	Anatomy of news consumption on Facebook. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3035-3039.	7.1	175
110	Extreme risk spillover network: application to financial institutions. Quantitative Finance, 2017, 17, 1417-1433.	1.7	175
111	Truncation of Power Law Behavior in â€œScale-Freeâ€•Network Models due to Information Filtering. Physical Review Letters, 2002, 88, 138701.	7.8	172
112	Structural and dynamical properties of long-range correlated percolation. Physical Review A, 1992, 46, R1724-R1727.	2.5	170
113	The growth of business firms: Theoretical framework and empirical evidence. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18801-18806.	7.1	168
114	Robustness of network of networks under targeted attack. Physical Review E, 2013, 87, 052804.	2.1	167
115	Connection of translational and rotational dynamical heterogeneities with the breakdown of the Stokes-Einstein and Stokes-Einstein-Debye relations in water. Physical Review E, 2007, 76, 031203.	2.1	166
116	Scaling Behavior in Economics: I. Empirical Results for Company Growth. Journal De Physique, I, 1997, 7, 621-633.	1.2	164
117	Quantifying the Behavior of Stock Correlations Under Market Stress. Scientific Reports, 2012, 2, 752.	3.3	164
118	Assortativity decreases the robustness of interdependent networks. Physical Review E, 2012, 86, 066103.	2.1	163
119	Characterization of sleep stages by correlations in the magnitude and sign of heartbeat increments. Physical Review E, 2002, 65, 051908.	2.1	161
120	Optimal Paths in Disordered Complex Networks. Physical Review Letters, 2003, 91, 168701.	7.8	160
121	Identifying States of a Financial Market. Scientific Reports, 2012, 2, 644.	3.3	160
122	Dynamics of North American breeding bird populations. Nature, 1998, 393, 257-260.	27.8	158
123	Molecular Dynamics Simulation of the SH3 Domain Aggregation Suggests a Generic Amyloidogenesis Mechanism. Journal of Molecular Biology, 2002, 324, 851-857.	4.2	157
124	A stochastic model of human gait dynamics. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 662-670.	2.6	157
125	Languages cool as they expand: Allometric scaling and the decreasing need for new words. Scientific Reports, 2012, 2, 943.	3.3	157
126	Cascading Failures in Bi-partite Graphs: Model for Systemic Risk Propagation. Scientific Reports, 2013, 3, 1219.	3.3	155

#	Article	IF	Citations
127	Hydrogen-bond dynamics for the extended simple point-charge model of water. Physical Review E, 2000, 62, 579-587.	2.1	154
128	Quantifying and interpreting collective behavior in financial markets. Physical Review E, 2001, 64, 035106.	2.1	154
129	Thermodynamics and dynamics of the two-scale spherically symmetric Jagla ramp model of anomalous liquids. Physical Review E, 2006, 74, 031108.	2.1	154
130	Interconnectedness and systemic risk of China's financial institutions. Emerging Markets Review, 2018, 35, 1-18.	4.4	154
131	Equation of state of supercooled water simulated using the extended simple point charge intermolecular potential. Journal of Chemical Physics, 1997, 107, 7443-7450.	3.0	152
132	Correlation Structure and Evolution of World Stock Markets: Evidence from Pearson and Partial Correlation-Based Networks. Computational Economics, 2018, 51, 607-635.	2.6	150
133	Effect of the interconnected network structure on the epidemic threshold. Physical Review E, 2013, 88, 022801.	2.1	148
134	Similarities between the growth dynamics of university research and of competitive economic activities. Nature, 1999, 400, 433-437.	27.8	147
135	Enhanced Density Fluctuations in SupercooledH2O,D2O, and Ethanol-Water Solutions: Evidence from Small-Angle X-Ray Scattering. Physical Review Letters, 1981, 46, 597-600.	7.8	146
136	Non-random fluctuations and multi-scale dynamics regulation of human activity. Physica A: Statistical Mechanics and Its Applications, 2004, 337, 307-318.	2.6	146
137	Quantifying the semantics of search behavior before stock market moves. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11600-11605.	7.1	144
138	Levels of complexity in scale-invariant neural signals. Physical Review E, 2009, 79, 041920.	2.1	143
139	Structural Order for One-Scale and Two-Scale Potentials. Physical Review Letters, 2005, 95, 130604.	7.8	142
140	Lifetime of the bond network and gel-like anomalies in supercooled water. Physical Review Letters, 1990, 64, 1686-1689.	7.8	141
141	Scaling and memory of intraday volatility return intervals in stock markets. Physical Review E, 2006, 73, 026117.	2.1	140
142	Quantifying the Advantage of Looking Forward. Scientific Reports, 2012, 2, 350.	3.3	140
143	Low-Density "Patches" in the Hydrogen-Bond Network of Liquid Water: Evidence from Molecular-Dynamics Computer Simulations. Physical Review Letters, 1982, 49, 1749-1752.	7.8	138
144	Simple spatial scaling rules behind complex cities. Nature Communications, 2017, 8, 1841.	12.8	137

#	Article	IF	Citations
145	Static and dynamic properties of stretched water. Journal of Chemical Physics, 2001, 115, 344-348.	3.0	136
146	Percolation of localized attack on complex networks. New Journal of Physics, 2015, 17, 023049.	2.9	135
147	Direct Molecular Dynamics Observation of Protein Folding Transition State Ensemble. Biophysical Journal, 2002, 83, 3525-3532.	0.5	133
148	Endogenous circadian rhythm in an index of cardiac vulnerability independent of changes in behavior. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 18223-18227.	7.1	132
149	Transport in Weighted Networks: Partition into Superhighways and Roads. Physical Review Letters, 2006, 96, 148702.	7.8	130
150	The Widom line of supercooled water. Journal of Physics Condensed Matter, 2007, 19, 205126.	1.8	130
151	Modeling long-range cross-correlations in two-component ARFIMA and FIARCH processes. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3954-3959.	2.6	130
152	Going supercritical. Nature Physics, 2010, 6, 479-480.	16.7	127
153	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
154	Scale-Independent Measures and Pathologic Cardiac Dynamics. Physical Review Letters, 1998, 81, 2388-2391.	7.8	126
155	Modeling confirmation bias and polarization. Scientific Reports, 2017, 7, 40391.	3.3	126
156	Structural bottlenecks for communication in networks. Physical Review E, 2007, 75, 036105.	2.1	125
157	Complex interdependent supply chain networks: Cascading failure and robustness. Physica A: Statistical Mechanics and Its Applications, 2016, 443, 58-69.	2.6	125
158	Flexibility of thought in high creative individuals represented by percolation analysis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 867-872.	7.1	125
159	Isochoric differential scattering functions in liquid water: The fifth neighbor as a network defect. Physical Review Letters, 1990, 65, 3452-3455.	7.8	124
160	Persistence and uncertainty in the academic career. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5213-5218.	7.1	124
161	Glass-Transition Temperature of Water: A Simulation Study. Physical Review Letters, 2004, 93, 047801.	7.8	123
162	Partial correlation analysis: applications for financial markets. Quantitative Finance, 2015, 15, 569-578.	1.7	123

#	Article	IF	Citations
163	Folding events in the 21-30 region of amyloid Â-protein (AÂ) studied in silico. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6015-6020.	7.1	122
164	Dynamic Opinion Model and Invasion Percolation. Physical Review Letters, 2009, 103, 018701.	7.8	122
165	Species independence of mutual information in coding and noncoding DNA. Physical Review E, 2000, 61, 5624-5629.	2.1	120
166	Connection between Adam-Gibbs Theory and Spatially Heterogeneous Dynamics. Physical Review Letters, 2003, 90, 085506.	7.8	120
167	Relation between Rotational and Translational Dynamic Heterogeneities in Water. Physical Review Letters, 2006, 96, 057803.	7.8	120
168	Switching processes in financial markets. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7674-7678.	7.1	120
169	Breakdown of interdependent directed networks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1138-1143.	7.1	120
170	Breakdown of Alexander-Orbach conjecture for percolation: Exact enumeration of random walks on percolation backbones. Physical Review B, 1984, 30, 4083-4086.	3.2	119
171	Territory covered by N diffusing particles. Nature, 1992, 355, 423-426.	27.8	119
172	Endogenous circadian rhythm in human motor activity uncoupled from circadian influences on cardiac dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20702-20707.	7.1	119
173	Suppressing disease spreading by using information diffusion on multiplex networks. Scientific Reports, 2016, 6, 29259.	3.3	118
174	Dynamics of a Ferromagnetic Domain Wall and the Barkhausen Effect. Physical Review Letters, 1997, 79, 4669-4672.	7.8	117
175	Finding Borders between Coding and Noncoding DNA Regions by an Entropic Segmentation Method. Physical Review Letters, 2000, 85, 1342-1345.	7.8	115
176	Microscopic mechanism of protein cryopreservation in an aqueous solution with trehalose. Scientific Reports, 2013, 3, 1218.	3.3	115
177	Application of fractal concepts to polymer statistics and to anomalous transport in randomly porous media. Journal of Statistical Physics, 1984, 36, 843-860.	1.2	114
178	Solvent and mutation effects on the nucleation of amyloid Â-protein folding. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18258-18263.	7.1	113
179	Structure of shells in complex networks. Physical Review E, 2009, 80, 036105.	2.1	112
180	Stock market dynamics and turbulence: parallel analysis of fluctuation phenomena. Physica A: Statistical Mechanics and Its Applications, 1997, 239, 255-266.	2.6	110

#	Article	IF	Citations
181	Continuum percolation threshold for interpenetrating squares and cubes. Physical Review E, 2002, 66, 046136.	2.1	109
182	Structure of the first- and second-neighbor shells of simulated water: Quantitative relation to translational and orientational order. Physical Review E, 2007, 76, 051201.	2.1	109
183	Quantifying and modeling long-range cross correlations in multiple time series with applications to world stock indices. Physical Review E, 2011, 83, 046121.	2.1	109
184	Slow Dynamics of Water under Pressure. Physical Review Letters, 1999, 82, 3629-3632.	7.8	108
185	Directed-polymer and ballistic-deposition growth with correlated noise. Physical Review A, 1991, 44, R2239-R2242.	2.5	107
186	Two-phase behaviour of financial markets. Nature, 2003, 421, 130-130.	27.8	106
187	Dynamical Robustness of LÃ©vy Search Strategies. Physical Review Letters, 2003, 91, 240601.	7.8	106
188	Family of tunable spherically symmetric potentials that span the range from hard spheres to waterlike behavior. Physical Review E, 2006, 73, 051204.	2.1	106
189	Limits of stability of the liquid phase in a lattice model with waterâ€like properties. Journal of Chemical Physics, 1993, 98, 9863-9872.	3.0	105
190	Intramolecular coupling as a mechanism for a liquid-liquid phase transition. Physical Review E, 2003, 67, 011103.	2.1	105
191	Scaling features of noncoding DNA. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 1-18.	2.6	104
192	Percolation of partially interdependent scale-free networks. Physical Review E, 2013, 87, 052812.	2.1	103
193	Percolation of a general network of networks. Physical Review E, 2013, 88, 062816.	2.1	103
194	Avalanches in breakdown and fracture processes. Physical Review E, 1999, 59, 5049-5057.	2.1	102
195	Static and dynamic anomalies in a repulsive spherical ramp liquid: Theory and simulation. Physical Review E, 2005, 72, 021501.	2.1	102
196	Scaling Behavior in Economics: II. Modeling of Company Growth. Journal De Physique, I, 1997, 7, 635-650.	1.2	100
197	Switch between critical percolation modes in city traffic dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23-28.	7.1	100
198	A tetrahedral entropy for water. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22130-22134.	7.1	98

#	Article	IF	Citations
199	Energy landscape in protein folding and unfolding. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3159-3163.	7.1	98
200	The robustness of interdependent clustered networks. Europhysics Letters, 2013, 101, 18002.	2.0	97
201	Eradicating catastrophic collapse in interdependent networks via reinforced nodes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3311-3315.	7.1	97
202	Role of the solvent in the dynamical transitions of proteins: The case of the lysozyme-water system. Journal of Chemical Physics, 2007, 127, 045104.	3.0	96
203	Tests of Universality of Percolation Exponents for a Three-Dimensional Continuum System of Interacting Waterlike Particles. Physical Review Letters, 1982, 49, 1895-1898.	7.8	95
204	Possible Mechanism for Cold Denaturation of Proteins at High Pressure. Physical Review Letters, 2003, 91, 138103.	7.8	95
205	LÃ©vy flight random searches in biological phenomena. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 208-213.	2.6	94
206	Water-like solvation thermodynamics in a spherically symmetric solvent model with two characteristic lengths. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20177-20182.	7.1	93
207	Deviations from uniform power law scaling in nonstationary time series. Physical Review E, 1997, 55, 845-849.	2.1	92
208	Traveling time and traveling length in critical percolation clusters. Physical Review E, 1999, 60, 3425-3428.	2.1	92
209	Scale-free resilience of real traffic jams. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8673-8678.	7.1	92
210	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.gif" display="inline" overflow="scroll"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>f</mml:mi></mml:math> 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
211	Number of distinct sites visited byNrandom walkers. Physical Review A, 1992, 45, 7128-7138.	2.5	90
212	Model for complex heart rate dynamics in health and diseases. Physical Review E, 2005, 72, 041904.	2.1	90
213	A singular thermodynamically consistent temperature at the origin of the anomalous behavior of liquid water. Scientific Reports, 2012, 2, 993.	3.3	90
214	Scaling properties of extreme price fluctuations in Bitcoin markets. Physica A: Statistical Mechanics and Its Applications, 2018, 510, 400-406.	2.6	90
215	Multiscale aspects of cardiac control. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 685-704.	2.6	89
216	Fractionally integrated process for transition economics. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 465-470.	2.6	89

#	Article	IF	Citations
217	Statistical Laws Governing Fluctuations in Word Use from Word Birth to Word Death. Scientific Reports, 2012, 2, 313.	3.3	89
218	Liquid-liquid critical point in a Hamiltonian model for water: analytic solution. Journal of Physics Condensed Matter, 2002, 14, 2201-2209.	1.8	88
219	Robustness of onionlike correlated networks against targeted attacks. Physical Review E, 2012, 85, 046109.	2.1	87
220	Correlation between centrality metrics and their application to the opinion model. European Physical Journal B, 2015, 88, 1.	1.5	87
221	A statistical physics view of financial fluctuations: Evidence for scaling and universality. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3967-3981.	2.6	85
222	Universality in sandpiles. Physical Review E, 1999, 59, R12-R15.	2.1	84
223	Dynamic instabilities in the inflating lung. Nature, 2002, 417, 809-811.	27.8	84
224	Anomalous Transport in Scale-Free Networks. Physical Review Letters, 2005, 94, 248701.	7.8	84
225	Dynamical Crossover and Breakdown of the Stokesâ^'Einstein Relation in Confined Water and in Methanol-Diluted Bulk Water. Journal of Physical Chemistry B, 2010, 114, 1870-1878.	2.6	84
226	Liquid-liquid phase transition for an attractive isotropic potential with wide repulsive range. Physical Review E, 2005, 71, 061504.	2.1	83
227	Resilience of networks with community structure behaves as if under an external field. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6911-6915.	7.1	82
228	Universality Classes for Spreading Phenomena: A New Model with Fixed Static but Continuously Tunable Kinetic Exponents. Physical Review Letters, 1985, 55, 653-656.	7.8	81
229	On the origin of power-law fluctuations in stock prices. Quantitative Finance, 2004, 4, 11-15.	1.7	81
230	Locating the source of diffusion in complex networks by time-reversal backward spreading. Physical Review E, 2016, 93, 032301.	2.1	81
231	More than one dynamic crossover in protein hydration water. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19873-19878.	7.1	79
232	Multiple tipping points and optimal repairing in interacting networks. Nature Communications, 2016, 7, 10850.	12.8	79
233	Thermodynamic and structural aspects of the potential energy surface of simulated water. Physical Review E, 2001, 63, 041201.	2.1	78
234	Predictions of Dynamic Behavior under Pressure for Two Scenarios to Explain Water Anomalies. Physical Review Letters, 2008, 100, 105701.	7.8	78

#	Article	IF	Citations
235	Competing for Attention in Social Media under Information Overload Conditions. PLoS ONE, 2015, 10, e0126090.	2.5	78
236	A monatomic system with a liquid-liquid critical point and two distinct glassy states. Journal of Chemical Physics, 2009, 130, 054505.	3.0	77
237	Systemic risk and spatiotemporal dynamics of the US housing market. Scientific Reports, 2014, 4, 3655.	3.3	77
238	Clustering Dynamics in Water/Methanol Mixtures: A Nuclear Magnetic Resonance Study at 205 K < T < 295 K. Journal of Physical Chemistry B, 2008, 112, 10449-10454.	2.6	76
239	Structure of supercooled and glassy water under pressure. Physical Review E, 1999, 60, 1084-1087.	2.1	75
240	Methods for measuring the citations and productivity of scientists across time and discipline. Physical Review E, 2010, 81, 036114.	2.1	75
241	Increasing trend of scientists to switch between topics. Nature Communications, 2019, 10, 3439.	12.8	75
242	Dynamics of granular stratification. Physical Review E, 1998, 58, 3357-3367.	2.1	74
243	Waterlike anomalies for core-softened models of fluids: One dimension. Physical Review E, 1999, 60, 6714-6721.	2.1	74
244	Fractionally integrated process with power-law correlations in variables and magnitudes. Physical Review E, 2005, 72, 026121.	2.1	74
245	Switching Phenomena in a System with No Switches. Journal of Statistical Physics, 2010, 138, 431-446.	1.2	74
246	Quantifying fluctuations in market liquidity: Analysis of the bid-ask spread. Physical Review E, 2005, 71, 046131.	2.1	73
247	Molecular dynamics study of orientational cooperativity in water. Physical Review E, 2006, 73, 041505.	2.1	72
248	Herd behavior in a complex adaptive system. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15058-15063.	7.1	72
249	Liquidâ˜'Liquid Phase Transition in Confined Water:Â A Monte Carlo Studyâ€¡. Journal of Physical Chemistry B, 1999, 103, 9728-9730.	2.6	71
250	Bankruptcy risk model and empirical tests. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18325-18330.	7.1	71
251	Robustness of a partially interdependent network formed of clustered networks. Physical Review E, 2014, 89, 032812.	2.1	71
252	Skill complementarity enhances heterophily in collaboration networks. Scientific Reports, 2016, 6, 18727.	3.3	71

#	Article	IF	Citations
253	Tests of scaling and universality of the distributions of trade size and share volume: Evidence from three distinct markets. Physical Review E, 2007, 76, 046109.	2.1	69
254	On the size distribution of business firms. Economics Letters, 2008, 98, 207-212.	1.9	69
255	Quantifying the Digital Traces of Hurricane Sandy on Flickr. Scientific Reports, 2013, 3, 3141.	3.3	69
256	Local floods induce large-scale abrupt failures of road networks. Nature Communications, 2019, 10, 2114.	12.8	69
257	Scaling behavior in economics: The problem of quantifying company growth. Physica A: Statistical Mechanics and Its Applications, 1997, 244, 1-24.	2.6	68
258	Universal behavior of cascading failures in interdependent networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22452-22457.	7.1	68
259	Flow between two sites on a percolation cluster. Physical Review E, 2000, 62, 8270-8281.	2.1	67
260	Relation between the High Density Phase and the Very-High Density Phase of Amorphous Solid Water. Physical Review Letters, 2005, 94, 107803.	7.8	67
261	Betweenness centrality of fractal and nonfractal scale-free model networks and tests on real networks. Physical Review E, 2007, 75, 056115.	2.1	67
262	Dynamical macroprudential stress testing using network theory. Journal of Banking and Finance, 2015, 59, 164-181.	2.9	67
263	Supercooled water reveals its secrets. Science, 2017, 358, 1543-1544.	12.6	67
264	Effect of water-wall interaction potential on the properties of nanoconfined water. Physical Review E, 2007, 75, 011202.	2.1	66
265	Asymmetric Levy flight in financial ratios. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17883-17888.	7.1	66
266	Disequilibrium silicate mineral textures: fractal and non-fractal features. Nature, 1989, 341, 134-138.	27.8	65
267	Ab initio Discrete Molecular Dynamics Approach to Protein Folding and Aggregation. Methods in Enzymology, 2006, 412, 314-338.	1.0	65
268	OPTIMAL PATH AND MINIMAL SPANNING TREES IN RANDOM WEIGHTED NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2215-2255.	1.7	65
269	Percolation of interdependent network of networks. Chaos, Solitons and Fractals, 2015, 72, 4-19.	5.1	65
270	Quantitative relations between corruption and economic factors. European Physical Journal B, 2007, 56, 157-166.	1.5	64

#	Article	IF	Citations
271	Possible relation of water structural relaxation to water anomalies. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4899-4904.	7.1	64
272	Local structure can identify and quantify influential global spreaders in large scale social networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7468-7472.	7.1	64
273	Market dynamics immediately before and after financial shocks: Quantifying the Omori, productivity, and Bath laws. Physical Review E, 2010, 82, 036114.	2.1	63
274	Extreme risk spillover effects in world gold markets and the global financial crisis. International Review of Economics and Finance, 2016, 46, 55-77.	4.5	63
275	How breadth of degree distribution influences network robustness: Comparing localized and random attacks. Physical Review E, 2015, 92, 032122.	2.1	62
276	Tracer dispersion in a percolation network with spatial correlations. Physical Review E, 2000, 61, 583-586.	2.1	61
277	Search for a liquid-liquid critical point in models of silica. Journal of Chemical Physics, 2014, 140, 224502.	3.0	61
278	Emergence of statistically validated financial intraday lead-lag relationships. Quantitative Finance, 2015, 15, 1375-1386.	1.7	61
279	Optimal resource diffusion for suppressing disease spreading in multiplex networks. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 053501.	2.3	61
280	Different scaling behaviors of commodity spot and future prices. Physical Review E, 2002, 66, 045103.	2.1	60
281	Anomalous diffusion and multifractality enhance mating encounters in the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2206-2211.	7.1	60
282	Multifractal properties of price change and volume change of stock market indices. Physica A: Statistical Mechanics and Its Applications, 2015, 428, 46-51.	2.6	60
283	Dynamic Heterogeneities in Supercooled Water. Journal of Physical Chemistry B, 2004, 108, 6655-6662.	2.6	59
284	Hidden interactions in financial markets. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10646-10651.	7.1	58
285	Crystal stability limits at positive and negative pressures, and crystal-to-glass transitions. Physical Review E, 1995, 52, 6484-6491.	2.1	57
286	Transitions between inherent structures in water. Physical Review E, 2002, 65, 041502.	2.1	57
287	A theory for discriminating the mechanism responsible for the water density anomaly. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 508-513.	2.6	57
288	MULTIFRACTAL CROSS WAVELET ANALYSIS. Fractals, 2017, 25, 1750054.	3.7	57

#	Article	IF	Citations
289	Relation between volatility correlations in financial markets and Omori processes occurring on all scales. Physical Review E, 2007, 76, 016109.	2.1	56
290	Statistical regularities in the rank-citation profile of scientists. Scientific Reports, 2011, 1, 181.	3.3	56
291	Stock market as temporal network. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 1104-1112.	2.6	56
292	The salesman and the tourist. Nature, 2001, 413, 373-374.	27.8	55
293	Configuration Space Connectivity across the Fragile-to-Strong Transition in Silica. Physical Review Letters, 2002, 88, 035501.	7.8	55
294	Cross-correlation of instantaneous phase increments in pressure-flow fluctuations: Applications to cerebral autoregulation. Physical Review E, 2006, 73, 031915.	2.1	55
295	Thermodynamics and Folding Kinetics Analysis of the SH3 Domain form Discrete Molecular Dynamics. Journal of Molecular Biology, 2002, 318, 863-876.	4.2	54
296	Resilience of complex networks to random breakdown. Physical Review E, 2005, 72, 056130.	2.1	54
297	The Growth of Business Firms: Facts and Theory. Journal of the European Economic Association, 2007, 5, 574-584.	3.5	54
298	Indication of multiscaling in the volatility return intervals of stock markets. Physical Review E, 2008, 77, 016109.	2.1	54
299	Phase diagram of amorphous solid water: Low-density, high-density, and very-high-density amorphous ices. Physical Review E, 2005, 72, 031510.	2.1	53
300	Model of brain activation predicts the neural collective influence map of the brain. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3849-3854.	7.1	53
301	Avalanches in the Lung: A Statistical Mechanical Model. Physical Review Letters, 1996, 76, 2192-2195.	7.8	52
302	Scaling of the Distribution of Shortest Paths in Percolation. Journal of Statistical Physics, 1998, 93, 603-613.	1.2	52
303	Noise Effects on the Complex Patterns of Abnormal Heartbeats. Physical Review Letters, 2001, 87, 068104.	7.8	52
304	Spurious detection of phase synchronization in coupled nonlinear oscillators. Physical Review E, 2006, 73, 065201.	2.1	52
305	Relation of water anomalies to the excess entropy. Physical Review E, 2008, 78, 051201.	2.1	52
306	Correspondence between phase diagrams of the TIP5P water model and a spherically symmetric repulsive ramp potential with two characteristic length scales. Physical Review E, 2008, 77, 042201.	2.1	52

#	Article	IF	Citations
307	Unsolved Mysteries of Water in Its Liquid and Glass States. MRS Bulletin, 1999, 24, 22-30.	3.5	51
308	Percolation threshold, Fisher exponent, and shortest path exponent for four and five dimensions. Physical Review E, 2001, 64, 026115.	2.1	51
309	Behavior of the Widom Line in Critical Phenomena. Physical Review Letters, 2014, 112, 135701.	7.8	51
310	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math>-core percolation on complex networks: Comparing random, localized, and targeted attacks. Physical Review E, 2016, 93, 062302.	2.1	51
311	Network resilience. Physics Reports, 2022, 971, 1-108.	25.6	51
312	Liquid-liquid phase transition in one-component fluids. Journal of Physics Condensed Matter, 2002, 14, 2193-2200.	1.8	50
313	Relating Airway Diameter Distributions to Regular Branching Asymmetry in the Lung. Physical Review Letters, 2005, 95, 168101.	7.8	50
314	Optimal paths in complex networks with correlated weights: The worldwide airport network. Physical Review E, 2006, 74, 056104.	2.1	50
315	Fractal boundaries of complex networks. Europhysics Letters, 2008, 84, 48004.	2.0	50
316	Stock return distributions: Tests of scaling and universality from three distinct stock markets. Physical Review E, 2008, 77, 037101.	2.1	50
317	Controlling nanostructures. Nature, 1994, 368, 22-22.	27.8	49
318	Static and dynamic heterogeneities in water. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 509-523.	3.4	49
319	Lack of exercise leads to significant and reversible loss of scale invariance in both aged and young mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2320-2324.	7.1	49
320	Structural order in glassy water. Physical Review E, 2005, 71, 061505.	2.1	48
321	Potential-Energy Landscape Study of the Amorphous-Amorphous Transformation inH2O. Physical Review Letters, 2003, 91, 115504.	7.8	47
322	Heuristic segmentation of a nonstationary time series. Physical Review E, 2004, 69, 021108.	2.1	47
323	Dynamics and thermodynamics of water. Journal of Physics Condensed Matter, 2008, 20, 244114.	1.8	47
324	Possible Origin of Efficient Navigation in Small Worlds. Physical Review Letters, 2011, 106, 108701.	7.8	47

#	Article	IF	Citations
325	The Boson peak in supercooled water. Scientific Reports, 2013, 3, 1980.	3.3	47
326	Waterlike glass polyamorphism in a monoatomic isotropic Jagla model. Journal of Chemical Physics, 2011, 134, 064507.	3.0	46
327	Non-consensus Opinion Models on Complex Networks. Journal of Statistical Physics, 2013, 151, 92-112.	1.2	46
328	Spatial reciprocity in the evolution of cooperation. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190041.	2.6	46
329	Distribution of Base Pair Repeats in Coding and Noncoding DNA Sequences. Physical Review Letters, 1997, 79, 5182-5185.	7.8	44
330	Large Decrease of Fluctuations for Supercooled Water in Hydrophobic Nanoconfinement. Physical Review Letters, 2011, 106, 145701.	7.8	44
331	A Possible Role of Water in the Protein Folding Process. Journal of Physical Chemistry B, 2011, 115, 14280-14294.	2.6	44
332	Confidence and the Stock Market: An Agent-Based Approach. PLoS ONE, 2014, 9, e83488.	2.5	44
333	Collective excitations in liquid water at low frequency and large wave vector. Journal of Chemical Physics, 1991, 95, 7775-7776.	3.0	43
334	Power-law correlated processes with asymmetric distributions. Physical Review E, 2005, 71, 025104.	2.1	43
335	Preferential attachment and growth dynamics in complex systems. Physical Review E, 2006, 74, 035103.	2.1	43
336	Thermal Conductivity Minimum: A New Water Anomaly. Journal of Physical Chemistry B, 2011, 115, 14269-14273.	2.6	43
337	Earthquake networks based on similar activity patterns. Physical Review E, 2012, 86, 046107.	2.1	43
338	Robustness of assembly supply chain networks by considering risk propagation and cascading failure. Physica A: Statistical Mechanics and Its Applications, 2016, 459, 129-139.	2.6	43
339	Quasicrystals in a monodisperse system. Physical Review E, 1999, 60, 2664-2669.	2.1	42
340	Clusters of mobile molecules in supercooled water. Physical Review E, 2005, 72, 011202.	2.1	42
341	Current flow in random resistor networks: The role of percolation in weak and strong disorder. Physical Review E, 2005, 71, 045101.	2.1	42
342	The influence of water on protein properties. Journal of Chemical Physics, 2014, 141, 165104.	3.0	42

#	Article	IF	Citations
343	Multifractal analysis of managed and independent float exchange rates. Physica A: Statistical Mechanics and Its Applications, 2015, 428, 13-18.	2.6	42
344	Multiscale multifractal detrended-fluctuation analysis of two-dimensional surfaces. Physical Review E, 2016, 93, 042213.	2.1	42
345	An approach for cascading effects within critical infrastructure systems. Physica A: Statistical Mechanics and Its Applications, 2018, 510, 164-177.	2.6	42
346	Multilayer information spillover networks: measuring interconnectedness of financial institutions. Quantitative Finance, 2021, 21, 1163-1185.	1.7	42
347	Predicting the epidemic threshold of the susceptible-infected-recovered model. Scientific Reports, 2016, 6, 24676.	3.3	41
348	Optimal resilience of modular interacting networks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	41
349	Avalanche Dynamics of Crackle Sound in the Lung. Physical Review Letters, 2001, 87, 088101.	7.8	40
350	Optimization of network robustness to random breakdowns. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 854-862.	2.6	40
351	The thermodynamical response functions and the origin of the anomalous behavior of liquid water. Faraday Discussions, 2013, 167, 95.	3.2	40
352	Emergence of communities and diversity in social networks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2887-2891.	7.1	40
353	Dispersity-Driven Melting Transition in Two-Dimensional Solids. Physical Review Letters, 1997, 79, 3206-3209.	7.8	39
354	Multifactor analysis of multiscaling in volatility return intervals. Physical Review E, 2009, 79, 016103.	2.1	39
355	Carbon-dioxide emissions trading and hierarchical structure in worldwide finance and commodities markets. Physical Review E, 2013, 87, 012814.	2.1	39
356	Topological analyses in APP/PS1 mice reveal that astrocytes do not migrate to amyloid-Î² plaques. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15556-15561.	7.1	39
357	The cost of attack in competing networks. Journal of the Royal Society Interface, 2015, 12, 20150770.	3.4	39
358	Multiple Folding Pathways of the SH3 Domain. Biophysical Journal, 2004, 87, 521-533.	0.5	38
359	Size-dependent standard deviation for growth rates: Empirical results and theoretical modeling. Physical Review E, 2008, 77, 056102.	2.1	38
360	Hydrogen-bond dynamics of water in a quasi-two-dimensional hydrophobic nanopore slit. Physical Review E, 2009, 79, 041202.	2.1	38

#	Article	IF	Citations
361	CAN STATISTICAL PHYSICS CONTRIBUTE TO THE SCIENCE OF ECONOMICS?. Fractals, 1996, 04, 415-425.	3.7	37
362	Universality classes for self-avoiding walks in a strongly disordered system. Physical Review E, 2002, 65, 056128.	2.1	36
363	Universal Behavior of Optimal Paths in Weighted Networks with General Disorder. Physical Review Letters, 2006, 96, 068702.	7.8	36
364	Computer Simulations of Alzheimers Amyloid β-Protein Folding and Assembly. Current Alzheimer Research, 2006, 3, 493-504.	1.4	36
365	Quantitative law describing market dynamics before and after interest-rate change. Physical Review E, 2010, 81, 066121.	2.1	36
366	Financial factor influence on scaling and memory of trading volume in stock market. Physical Review E, 2011, 84, 046112.	2.1	36
367	Multiple metastable network states in urban traffic. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17528-17534.	7.1	36
368	Dynamics of cross-correlations in the stock market. Physica A: Statistical Mechanics and Its Applications, 2003, 324, 241-246.	2.6	35
369	Relationship between the liquidâ€“liquid phase transition and dynamic behaviour in the Jagla model. Journal of Physics Condensed Matter, 2006, 18, S2239-S2246.	1.8	35
370	Statistical analysis of the overnight and daytime return. Physical Review E, 2009, 79, 056109.	2.1	35
371	Thermodynamic properties of bulk and confined water. Journal of Chemical Physics, 2014, 141, 18C504.	3.0	35
372	Strategy for stopping failure cascades in interdependent networks. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 577-583.	2.6	35
373	Quantifying Stock Return Distributions in Financial Markets. PLoS ONE, 2015, 10, e0135600.	2.5	35
374	Economic Fluctuations and Statistical Physics: The Puzzle of Large Fluctuations. Nonlinear Dynamics, 2006, 44, 329-340.	5.2	34
375	Cluster Monte Carlo and numerical mean field analysis for the water liquidâ€“liquid phase transition. Computer Physics Communications, 2009, 180, 497-502.	7.5	34
376	Econophysics: Scaling and its breakdown in finance. Journal of Statistical Physics, 1997, 89, 469-479.	1.2	33
377	Scaling in the growth of geographically subdivided populations: invariant patterns from a continent-wide biological survey. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 627-633.	4.0	33
378	Complex patterns of abnormal heartbeats. Physical Review E, 2002, 66, 031901.	2.1	33

#	Article	IF	Citations
379	Percolation theory applied to measures of fragmentation in social networks. Physical Review E, 2007, 75, 046107.	2.1	33
380	Absence of a diffusion anomaly of water in the direction perpendicular to hydrophobic nanoconfining walls. Physical Review E, 2008, 77, 030201.	2.1	33
381	Network of Interdependent Networks: Overview of Theory and Applications. Understanding Complex Systems, 2014, , 3-36.	0.6	33
382	Analysis and evaluation of the entropy indices of a static network structure. Scientific Reports, 2017, 7, 9340.	3.3	33
383	Long-range correlations in permeability fluctuations in porous rock. Physical Review E, 1996, 54, 3129-3134.	2.1	32
384	Comparison between response dynamics in transition economies and developed economies. Physical Review E, 2010, 82, 046104.	2.1	32
385	Power-law distribution of degreeâ€“degree distance: A better representation of the scale-free property of complex networks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14812-14818.	7.1	32
386	FLUCTUATIONS, NOISE AND SCALING IN THE CARDIO-PULMONARY SYSTEM. Fluctuation and Noise Letters, 2003, 03, R1-R25.	1.5	31
387	Group dynamics of the Japanese market. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 537-542.	2.6	31
388	Angle restriction enhances synchronization of self-propelled objects. Physical Review E, 2011, 84, 046115.	2.1	31
389	Dynamical properties of water-methanol solutions. Journal of Chemical Physics, 2016, 144, 064506.	3.0	31
390	Fractals in Biology and Medicine: From DNA to the Heartbeat. , 1994, , 49-88.		30
391	Mathematical Modeling of the First Inflation of Degassed Lungs. Annals of Biomedical Engineering, 1998, 26, 608-617.	2.5	30
392	Thermodynamic and dynamic anomalies for dumbbell molecules interacting with a repulsive ramplike potential. Physical Review E, 2006, 73, 061504.	2.1	30
393	Anomalies of water and hydrogen bond dynamics in hydrophobic nanoconfinement. Journal of Physics Condensed Matter, 2009, 21, 504108.	1.8	30
394	Effect of hydrophobic solutes on the liquid-liquid critical point. Physical Review E, 2010, 81, 061504.	2.1	30
395	Realized Volatility and Absolute Return Volatility: A Comparison Indicating Market Risk. PLoS ONE, 2014, 9, e102940.	2.5	30
396	Social contagions with communication channel alternation on multiplex networks. Physical Review E, 2018, 98, .	2.1	30

#	Article	IF	Citations
397	Effect of disorder strength on optimal paths in complex networks. Physical Review E, 2004, 70, 046133.	2.1	29
398	Multilayer financial networks and systemic importance: Evidence from China. International Review of Financial Analysis, 2021, 78, 101882.	6.6	29
399	On the distribution of career longevity and the evolution of home-run prowess in professional baseball. Europhysics Letters, 2008, 83, 50010.	2.0	28
400	Strategy of competition between two groups based on an inflexible contrarian opinion model. Physical Review E, 2011, 84, 066101.	2.1	28
401	Theq-dependent detrended cross-correlation analysis of stock market. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 023402.	2.3	28
402	Pressure effects in supercooled water: comparison between a 2D model of water and experiments for surface water on a protein. Journal of Physics Condensed Matter, 2008, 20, 494210.	1.8	27
403	Identifying influential directors in the United States corporate governance network. Physical Review E, 2011, 84, 046101.	2.1	27
404	Universality of market superstatistics. Physical Review E, 2016, 94, 042305.	2.1	27
405	Scaling behavior in crackle sound during lung inflation. Physical Review E, 1999, 60, 4659-4663.	2.1	26
406	Cluster formation, waterlike anomalies, and re-entrant melting for a family of bounded repulsive interaction potentials. Physical Review E, 2010, 81, 031201.	2.1	26
407	Disconnected Glass-Glass Transitions and Diffusion Anomalies in a Model with Two Repulsive Length Scales. Physical Review Letters, 2010, 104, 145701.	7.8	26
408	Zipf rank approach and cross-country convergence of incomes. Europhysics Letters, 2011, 94, 48001.	2.0	26
409	The competitiveness versus the wealth of a country. Scientific Reports, 2012, 2, 678.	3.3	26
410	Effect of Strong Opinions on the Dynamics of the Majority-Vote Model. Scientific Reports, 2018, 8, 8709.	3.3	26
411	Revisiting the weak-form efficiency of the EUR/CHF exchange rate market: Evidence from episodes of different Swiss franc regimes. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 734-746.	2.6	26
412	Freezing by heating. Nature, 2000, 404, 718-719.	27.8	25
413	Structural relaxation in the glass transition region of water. Physical Review E, 2005, 72, 011203.	2.1	25
414	Optimization of the robustness of multimodal networks. Physical Review E, 2006, 74, 016125.	2.1	25

#	Article	IF	Citations
415	Analysis of percolation behaviors of clustered networks with partial supportâ€“dependence relations. Physica A: Statistical Mechanics and Its Applications, 2014, 394, 370-378.	2.6	25
416	The cascading vulnerability of the directed and weighted network. Physica A: Statistical Mechanics and Its Applications, 2015, 427, 302-325.	2.6	25
417	Sector dominance ratio analysis of financial markets. Physica A: Statistical Mechanics and Its Applications, 2015, 421, 488-509.	2.6	25
418	Forecasting innovations in science, technology, and education. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12573-12581.	7.1	25
419	Unveiling causal interactions in complex systems. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7599-7605.	7.1	25
420	Scaling phenomena in the growth dynamics of scientific output. Journal of the Association for Information Science and Technology, 2005, 56, 893-902.	2.6	24
421	Cross-correlation and the predictability of financial return series. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 290-296.	2.6	24
422	Controllability of giant connected components in a directed network. Physical Review E, 2017, 95, 042318.	2.1	24
423	Postbreakthrough behavior in flow through porous media. Physical Review E, 2003, 67, 056314.	2.1	23
424	Cooling rate, heating rate, and aging effects in glassy water. Physical Review E, 2004, 69, 050201.	2.1	23
425	Numerical evaluation of the upper critical dimension of percolation in scale-free networks. Physical Review E, 2007, 75, 066110.	2.1	23
426	Structural Interpretation of the Large Slowdown of Water Dynamics at Stacked Phospholipid Membranes for Decreasing Hydration Level: All-Atom Molecular Dynamics. Materials, 2016, 9, 319.	2.9	23
427	Identifying the peak point of systemic risk in international crude oil importing trade. Energy, 2019, 176, 281-291.	8.8	23
428	Liquid water: A very complex fluid. Pramana - Journal of Physics, 1999, 53, 53-83.	1.8	22
429	Recent results on the connection between thermodynamics and dynamics in supercooled water. Biophysical Chemistry, 2003, 105, 573-583.	2.8	22
430	Some thermodynamical aspects of protein hydration water. Journal of Chemical Physics, 2015, 142, 215103.	3.0	22
431	Community Analysis of Global Financial Markets. Risks, 2016, 4, 13.	2.4	22
432	Exact results of the limited penetrable horizontal visibility graph associated to random time series and its application. Scientific Reports, 2018, 8, 5130.	3.3	22

#	Article	IF	Citations
433	Glassy behavior of a homopolymer from molecular dynamics simulations. Physical Review E, 2002, 65, 030801.	2.1	21
434	Scale-free models for the structure of business firm networks. Physical Review E, 2010, 81, 036117.	2.1	21
435	Optimization of crystal nucleation close to a metastable fluid-fluid phase transition. Scientific Reports, 2015, 5, 11260.	3.3	21
436	Fractals in Biology and Medicine: From DNA to the Heartbeat. , 1994, , 49-88.		21
437	Optimal path in random networks with disorder: A mini review. Physica A: Statistical Mechanics and Its Applications, 2005, 346, 82-92.	2.6	20
438	Transport and percolation theory in weighted networks. Physical Review E, 2007, 75, 045103.	2.1	20
439	Hydrophobic collapse and cold denaturation in the Jagla model of water. Journal of Physics Condensed Matter, 2010, 22, 284109.	1.8	20
440	Unveiling Molecular Changes in Water by Small Luminescent Nanoparticles. Small, 2017, 13, 1700968.	10.0	20
441	The co-evolution of networks and prisonerâ€™s dilemma game by considering sensitivity and visibility. Scientific Reports, 2017, 7, 45237.	3.3	20
442	Multiscale multifractal DCCA and complexity behaviors of return intervals for Potts price model. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 889-902.	2.6	20
443	Geometric Navigation of Axons in a Cerebral Pathway: Comparing dMRI with Tract Tracing and Immunohistochemistry. Cerebral Cortex, 2018, 28, 1219-1232.	2.9	20
444	Robustness of partially interdependent networks under combined attack. Chaos, 2019, 29, 021101.	2.5	20
445	THE DISTRIBUTION OF RETURNS OF STOCK PRICES. International Journal of Theoretical and Applied Finance, 2000, 03, 365-369.	0.5	19
446	ARCHâ€“GARCH approaches to modeling high-frequency financial data. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 216-220.	2.6	19
447	Percolation theory and fragmentation measures in social networks. Physica A: Statistical Mechanics and Its Applications, 2007, 378, 11-19.	2.6	19
448	Kinetics of aggregation and gelation. Journal of Polymer Science, Polymer Symposia, 1985, 73, 19-37.	0.1	19
449	A molecular dynamics study of the equation of state and the structure of supercooled aqueous solutions of methanol. Journal of Chemical Physics, 2012, 137, 184503.	3.0	19
450	Homogeneous Crystal Nucleation Near a Metastable Fluid-Fluid Phase Transition. Physical Review Letters, 2012, 109, 095702.	7.8	19

#	Article	IF	Citations
451	High-frequency trading model for a complex trading hierarchy. Quantitative Finance, 2012, 12, 559-566.	1.7	19
452	Physics of the Jagla model as the liquid-liquid coexistence line slope varies. Journal of Chemical Physics, 2015, 142, 224501.	3.0	19
453	Social contagions on interdependent lattice networks. Scientific Reports, 2017, 7, 44669.	3.3	19
454	Effects of time-delays in the dynamics of social contagions. New Journal of Physics, 2018, 20, 013034.	2.9	19
455	Enabling Controlling Complex Networks with Local Topological Information. Scientific Reports, 2018, 8, 4593.	3.3	19
456	Waterâ€™s two-critical-point scenario in the Ising paradigm. Journal of Chemical Physics, 2019, 150, 244509.	3.0	19
457	Multiple phase transitions in networks of directed networks. Physical Review E, 2019, 99, 012312.	2.1	19
458	Crackles and instabilities during lung inflation. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 18-26.	2.6	18
459	Modeling simple amphiphilic solutes in a Jagla solvent. Journal of Chemical Physics, 2012, 136, 044511.	3.0	18
460	Scaling of seismic memory with earthquake size. Physical Review E, 2012, 86, 011107.	2.1	18
461	Diffusivity and short-time dynamics in two models of silica. Journal of Chemical Physics, 2015, 142, 104506.	3.0	18
462	Short term prediction of extreme returns based on the recurrence interval analysis. Quantitative Finance, 2018, 18, 353-370.	1.7	18
463	Information Feedback in Temporal Networks as a Predictor of Market Crashes. Complexity, 2018, 2018, 1-13.	1.6	18
464	Robustness on interdependent networks with a multiple-to-multiple dependent relationship. Chaos, 2019, 29, 073107.	2.5	18
465	Realistic modelling of information spread using peer-to-peer diffusion patterns. Nature Human Behaviour, 2020, 4, 1198-1207.	12.0	18
466	Tracking Performance Limitations of Networked Control Systems With Repeated Zeros and Poles. IEEE Transactions on Automatic Control, 2021, 66, 1902-1909.	5.7	18
467	Equation of state of supercooled water from the sedimentation profile. Physical Review E, 2003, 67, 010202.	2.1	17
468	A Theory of Limited Liquidity and Large Investors Causing Spikes in Stock Market Volatility and Trading Volume. Journal of the European Economic Association, 2007, 5, 564-573.	3.5	17

#	Article	IF	Citations
469	Transport between multiple users in complex networks. European Physical Journal B, 2007, 57, 165-174.	1.5	17
470	Reply to â€œComment on â€˜Tests of scaling and universality of the distributions of trade size and share volume: Evidence from three distinct marketsâ€™â€‰â€•â€: Physical Review E, 2009, 79, .	2.1	17
471	Liquid-Liquid Phase Transition and Glass Transition in a Monoatomic Model System. International Journal of Molecular Sciences, 2010, 11, 5184-5200.	4.1	17
472	Effect of hydrophobic environments on the hypothesized liquid-liquid critical point of water. Journal of Biological Physics, 2012, 38, 97-111.	1.5	17
473	Predicting the Lifetime of Dynamic Networks Experiencing Persistent Random Attacks. Scientific Reports, 2015, 5, 14286.	3.3	17
474	A methodological framework for vulnerability analysis of interdependent infrastructure systems under deliberate attacks. Chaos, Solitons and Fractals, 2018, 117, 21-29.	5.1	17
475	Freedom of choice adds value to public goods. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17516-17521.	7.1	17
476	Confinement of Anomalous Liquids in Nanoporous Matrices. Physical Review Letters, 2012, 109, 105701.	7.8	16
477	Effect of pressure on the anomalous response functions of a confined water monolayer at low temperature. Journal of Chemical Physics, 2012, 137, 204502.	3.0	16
478	Generalized model for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math> -core percolation and interdependent networks. Physical Review E, 2017, 96, 032317.	2.1	16
479	Dynamics of social contagions with local trend imitation. Scientific Reports, 2018, 8, 7335.	3.3	16
480	Fractals and Multifractals: The Interplay of Physics and Geometry. , 1996, , 1-58.		15
481	Stochastic processes with power-law stability and a crossover in power-law correlations. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 153-159.	2.6	15
482	Optimal paths in strong and weak disorder: A unified approach. Physical Review E, 2006, 73, 036128.	2.1	15
483	Quantifying and understanding the economics of large financial movements. Journal of Economic Dynamics and Control, 2008, 32, 303-319.	1.6	15
484	How High Frequency Trading Affects a Market Index. Scientific Reports, 2013, 3, 2110.	3.3	15
485	Temperature and length scale dependence of solvophobic solvation in a single-site water-like liquid. Journal of Chemical Physics, 2013, 138, 064506.	3.0	15
486	P-Tensor Product in Compressed Sensing. IEEE Internet of Things Journal, 2019, 6, 3492-3511.	8.7	15

#	Article	IF	Citations
487	Gravity model in dockless bike-sharing systems within cities. Physical Review E, 2021, 103, 012312.	2.1	15
488	From the eden model to the kinetic growth walk: A generalized growth model with a finite lifetime of growth sites. Journal of Statistical Physics, 1987, 47, 1-16.	1.2	14
489	Volume distributions of avalanches in lung inflation: A statistical mechanical approach. Physical Review E, 1997, 56, 3385-3394.	2.1	14
490	Dependence of conductance on percolation backbone mass. Physical Review E, 2000, 61, 3435-3440.	2.1	14
491	APPLICATION OF RANDOM MATRIX THEORY TO STUDY CROSS-CORRELATIONS OF STOCK PRICES. International Journal of Theoretical and Applied Finance, 2000, 03, 399-403.	0.5	14
492	Potential of mean force between hydrophobic solutes in the Jagla model of water and implications for cold denaturation of proteins. Journal of Chemical Physics, 2012, 136, 044512.	3.0	14
493	Nonconsensus opinion model on directed networks. Physical Review E, 2014, 90, 052811.	2.1	14
494	The phase behavior study of human antibody solution using multi-scale modeling. Journal of Chemical Physics, 2016, 145, 194901.	3.0	14
495	Estimating Tipping Points in Feedback-Driven Financial Networks. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1040-1052.	10.8	14
496	Early warning of large volatilities based on recurrence interval analysis in Chinese stock markets. Quantitative Finance, 2016, 16, 1713-1724.	1.7	14
497	Comparative Analysis and Classification of Cassette Exons and Constitutive Exons. BioMed Research International, 2017, 2017, 1-8.	1.9	14
498	Communities and regularities in the behavior of investment fund managers. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6569-6574.	7.1	14
499	Structural and functional robustness of networked critical infrastructure systems under different failure scenarios. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 476-487.	2.6	14
500	Three-State Majority-vote Model on Scale-Free Networks and the Unitary Relation for Critical Exponents. Scientific Reports, 2020, 10, 8255.	3.3	14
501	An Integrated Approach for Assessing the Impact of Largeâ€Scale Future Floods on a Highway Transport System. Risk Analysis, 2020, 40, 1780-1794.	2.7	14
502	Asymmetric interdependent networks with multiple-dependence relation. Physical Review E, 2020, 101, 022314.	2.1	14
503	Two phase behaviour and the distribution of volume. Quantitative Finance, 2005, 5, 519-521.	1.7	13
504	Scale-free networks emerging from weighted random graphs. Physical Review E, 2006, 73, 025103.	2.1	13

#	Article	IF	Citations
505	Enhanced GrÃ¼neisen Parameter in Supercooled Water. Scientific Reports, 2019, 9, 12006.	3.3	13
506	Nonlinear model of cascade failure in weighted complex networks considering overloaded edges. Scientific Reports, 2020, 10, 13428.	3.3	13
507	Universal patterns in passenger flight departure delays. Scientific Reports, 2020, 10, 6890.	3.3	13
508	History-dependent percolation on multiplex networks. National Science Review, 2020, 7, 1296-1305.	9.5	13
509	SURFACE ROUGHENING WITH QUENCHED DISORDER IN d-DIMENSIONS. Fractals, 1993, 01, 827-839.	3.7	12
510	Possible origin of power-law behavior inn-tuple Zipf analysis. Physical Review E, 1996, 53, 6371-6375.	2.1	12
511	Sexual contacts and epidemic thresholds. Nature, 2003, 423, 606-606.	27.8	12
512	Identifying Importance of Amino Acids for Protein Folding from Crystal Structures. Methods in Enzymology, 2003, 374, 616-638.	1.0	12
513	Possible connection between the optimal path and flow in percolation clusters. Physical Review E, 2005, 72, 056131.	2.1	12
514	Volatility, irregularity, and predictable degree of accumulative return series. Physical Review E, 2010, 81, 066116.	2.1	12
515	A Coarse-Grained Protein Model in a Water-like Solvent. Scientific Reports, 2013, 3, 1841.	3.3	12
516	The impact of margin trading on share price evolution: A cascading failure model investigation. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 69-76.	2.6	12
517	Optimal community structure for social contagions. New Journal of Physics, 2018, 20, 053053.	2.9	12
518	Assessing the Attraction of Cities on Venture Capital From a Scaling Law Perspective. IEEE Access, 2021, 9, 48052-48063.	4.2	12
519	Fractal and Multifractal Approaches in Physiology. , 2002, , 218-257.		12
520	AVERAGE MUTUAL INFORMATION OF CODING AND NONCODING DNA. , 1999, , 614-23.		12
521	Three-state majority-vote model on small-world networks. Scientific Reports, 2022, 12, 282.	3.3	12
522	A FRACTAL MODEL FOR THE FIRST STAGES OF THIN FILM GROWTH. Fractals, 1996, 04, 321-329.	3.7	11

#	Article	IF	Citations
523	Universality of the optimal path in the strong disorder limit. Physical Review E, 2004, 70, 035102.	2.1	11
524	Anomalous electrical and frictionless flow conductance in complex networks. Physica D: Nonlinear Phenomena, 2006, 224, 69-76.	2.8	11
525	When a Text Is Translated Does the Complexity of Its Vocabulary Change? Translations and Target Readerships. PLoS ONE, 2014, 9, e110213.	2.5	11
526	Topological properties of the limited penetrable horizontal visibility graph family. Physical Review E, 2018, 97, 052117.	2.1	11
527	Experimental tests for a liquid-liquid critical point in water. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	11
528	Nonactin, monactin, dinactin, trinactin, and tetranactin. A Raman spectroscopic study. Biopolymers, 1975, 14, 2311-2327.	2.4	10
529	Temporal correlations in a one-dimensional sandpile model. Physical Review E, 1996, 54, 6109-6113.	2.1	10
530	Fractal behavior of the shortest path between two lines in percolation systems. Physical Review E, 2002, 65, 066105.	2.1	10
531	Emergence of dynamical complexity related to human heart rate variability. Physical Review E, 2014, 90, 062806.	2.1	10
532	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
533	Emergence of hysteresis loop in social contagions on complex networks. Scientific Reports, 2017, 7, 6103.	3.3	10
534	Extracting h-Backbone as a Core Structure in Weighted Networks. Scientific Reports, 2018, 8, 14356.	3.3	10
535	Degree distributions and motif profiles of limited penetrable horizontal visibility graphs. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 620-634.	2.6	10
536	Analysis of fluctuations in the first return times of random walks on regular branched networks. Journal of Chemical Physics, 2018, 149, 024903.	3.0	10
537	Localized attack on networks with clustering. New Journal of Physics, 2019, 21, 013014.	2.9	10
538	Contrasting microscopic interactions determine the properties of water/methanol solutions. Frontiers of Physics, 2018, 13, 1.	5.0	10
539	A Generalized Diffusion-Limited Aggregation Where Aggregate Sites Have a Finite Radical Time. Journal of the Physical Society of Japan, 1988, 57, 3376-3380.	1.6	9
540	Clustering of Identical Oligomers in Coding and Noncoding DNA Sequences. Journal of Biomolecular Structure and Dynamics, 1999, 17, 79-87.	3.5	9

#	Article	IF	Citations
541	ECONOPHYSICS: WHAT CAN PHYSICISTS CONTRIBUTE TO ECONOMICS?. International Journal of Theoretical and Applied Finance, 2000, 03, 335-346.	0.5	9
542	Thermodynamically important contacts in folding of model proteins. Physical Review E, 2001, 63, 032901.	2.1	9
543	Perimeter growth of a branched structure: Application to crackle sounds in the lung. Physical Review E, 2003, 68, 011909.	2.1	9
544	Fluid transport in branched structures with temporary closures: A model for quasistatic lung inflation. Physical Review E, 2003, 67, 031912.	2.1	9
545	Scaling of optimal-path-lengths distribution in complex networks. Physical Review E, 2005, 72, 025102.	2.1	9
546	Similarity and dissimilarity in correlations of genomic DNA. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 497-502.	2.6	9
547	Dynamical changes in hydration water accompanying lysozyme thermal denaturation. Frontiers of Physics, 2015, 10, 1.	5.0	9
548	Statistical physics approach to quantifying differences in myelinated nerve fibers. Scientific Reports, 2014, 4, 4511.	3.3	9
549	NMR spectroscopy study of local correlations in water. Journal of Chemical Physics, 2016, 145, 214503.	3.0	9
550	Dynamic behavior analysis of an internet flow interaction model under cascading failures. Physical Review E, 2019, 100, 022309.	2.1	9
551	Measuring the systemic risk in indirect financial networks. European Journal of Finance, 2022, 28, 1053-1098.	3.1	9
552	Beyond blobs in percolation cluster structure: The distribution of 3-blocks at the percolation threshold. Physical Review E, 2002, 65, 056126.	2.1	8
553	Graph Partitioning Induced Phase Transitions. Physical Review Letters, 2007, 99, 115701.	7.8	8
554	Capital death in the world market. Physical Review E, 2014, 89, 032805.	2.1	8
555	Applying temporal network analysis to the venture capital market. European Physical Journal B, 2015, 88, 1.	1.5	8
556	Percolation of networks with directed dependency links. Physical Review E, 2016, 93, 042312.	2.1	8
557	Statistical mechanics of a coevolving spin system. Physical Review E, 2018, 98, .	2.1	8
558	Control energy of complex networks towards distinct mixture states. Scientific Reports, 2018, 8, 10866.	3.3	8

#	Article	IF	Citations
559	Repulsive synchronization in complex networks. Chaos, 2019, 29, 053130.	2.5	8
560	Hydrophilic and hydrophobic competition in water-methanol solutions. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	8
561	Extreme risk induced by communities in interdependent networks. Communications Physics, 2019, 2, .	5.3	8
562	Discovering Social Events through Online Attention. PLoS ONE, 2014, 9, e102001.	2.5	8
563	A Matrix Factorization Model for Hellinger-Based Trust Management in Social Internet of Things. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2274-2285.	5.4	8
564	Role of fluctuations in fluid mechanics and dendritic solidification. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1987, 56, 665-686.	0.6	7
565	Percolation model for growth rates of aggregates and its application for business firm growth. Physical Review E, 2006, 74, 036118.	2.1	7
566	Asymmetry in power-law magnitude correlations. Physical Review E, 2009, 80, 015101.	2.1	7
567	Structure and Dynamics of the Brazilian Stock Market: A Correlation Analysis. SSRN Electronic Journal, 0, , .	0.4	7
568	Some considerations on the transport properties of water-glycerol suspensions. Journal of Chemical Physics, 2016, 144, 014501.	3.0	7
569	A statistical physics implementation of Coase×³s theory of the firm. Research in Economics, 2016, 70, 536-557.	0.8	7
570	NON-POISSON DONATION BEHAVIORS IN VIRTUAL WORLDS. Fractals, 2019, 27, 1950061.	3.7	7
571	A Spatio-Temporal Co-Clustering Framework for Discovering Mobility Patterns: A Study of Manhattan Taxi Data. IEEE Access, 2021, 9, 34338-34351.	4.2	7
572	Percolation on coupled networks with multiple effective dependency links. Chaos, 2021, 31, 033152.	2.5	7
573	Multifractal Properties of a Closed Contour: A Peek beyond the Shape Analysis. PLoS ONE, 2014, 9, e115262.	2.5	7
574	Relationship between fragility, diffusive directions and energy barriers in a supercooled liquid. Physica A: Statistical Mechanics and Its Applications, 2005, 345, 395-403.	2.6	6
575	Dynamically rich, yet parameter-sparse models for spatial epidemiology. Physics of Life Reviews, 2015, 15, 43-46.	2.8	6
576	How Fear of Future Outcomes Affects Social Dynamics. Journal of Statistical Physics, 2017, 167, 1007-1019.	1.2	6

#	Article	IF	Citations
577	Ising-like Models with Energy-Volume Coupling. Physical Review Letters, 2018, 120, 120603.	7.8	6
578	Power iteration ranking via hybrid diffusion for vital nodes identification. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 802-815.	2.6	6
579	Propinquity drives the emergence of network structure and density. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20360-20365.	7.1	6
580	Critical transitions in heterogeneous networks: Loss of low-degree nodes as an early warning signal. Physical Review E, 2019, 99, 040301.	2.1	6
581	Learning Fractals by â€œDoing Scienceâ€: Applying Cognitive Apprenticeship Strategies to Curriculum Design and Instruction. Interactive Learning Environments, 1992, 2, 205-226.	6.4	5
582	Fractal dimension of 3-blocks in four-, five-, and six-dimensional percolation systems. Physical Review E, 2003, 67, 026103.	2.1	5
583	Correlated randomness: Some examples of exotic statistical physics. Pramana - Journal of Physics, 2005, 64, 645-660.	1.8	5
584	Manifesto for a post-pandemic modeling. Physica A: Statistical Mechanics and Its Applications, 2020, 559, 125086.	2.6	5
585	Unveiling the Physics of the Mutual Interactions in Paramagnets. Scientific Reports, 2020, 10, 7981.	3.3	5
586	Scaling and Memory in Return Loss Intervals: Application to Risk Estimation. , 2006, , 43-51.		5
587	Trend Switching Processes in Financial Markets. , 2010, , 3-26.		5
588	Anticipating Stock Market Movements with Google and Wikipedia. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 47-59.	0.2	5
589	Interaction between Fiscal and Monetary Policy in a Dynamic Nonlinear Model. PLoS ONE, 2015, 10, e0118917.	2.5	5
590	Confidence and self-attribution bias in an artificial stock market. PLoS ONE, 2017, 12, e0172258.	2.5	5
591	SURFACE ROUGHENING WITH QUENCHED DISORDER IN d-DIMENSIONS. , 1994, , 453-465.		5
592	Nanometer Scale Dynamics in Diffusion Limited Propagation of Interfaces in Amorphous Alloys. Physical Review Letters, 1999, 83, 784-787.	7.8	4
593	Dynamics of clustered opinions in complex networks. Journal of Economic Interaction and Coordination, 2008, 3, 81-88.	0.7	4
594	Water and lysozyme: Some results from the bending and stretching vibrational modes. Frontiers of Physics, 2015, 10, 1.	5.0	4

#	Article	IF	Citations
595	Dual-induced multifractality in online viewing activity. Chaos, 2018, 28, 013114.	2.5	4
596	Ultrafast synchronization via local observation. New Journal of Physics, 2019, 21, 013040.	2.9	4
597	A Novel Causal Riskâ€Based Decisionâ€Making Methodology: The Case of Coronavirus. Risk Analysis, 2021, 41, 814-830.	2.7	4
598	Return Intervals Approach to Financial Fluctuations. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 3-27.	0.3	4
599	Metastable Water Under Pressure. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 197-216.	0.5	4
600	Decompression dynamics of high density amorphous ice above and below the liquid-liquid critical point. Journal of Non-Crystalline Solids: X, 2022, 13, 100081.	1.2	4
601	Percolation behaviors of finite components on complex networks. New Journal of Physics, 2022, 24, 043027.	2.9	4
602	Experimental studies of stratification in a granular Heleâ€”Shaw cell. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1341-1351.	0.6	3
603	An alternate formulation of the static scaling hypothesis. International Journal of Quantum Chemistry, 1971, 5, 593-604.	2.0	3
604	Shao, Havlin, and Stanley Reply:. Physical Review Letters, 2012, 109, .	7.8	3
605	Does the Wage Gap between Private and Public Sectors Encourage Political Corruption?. PLoS ONE, 2015, 10, e0141211.	2.5	3
606	Statistical Physics and Economic Fluctuations. Lecture Notes in Economics and Mathematical Systems, 2004, , 109-141.	0.3	3
607	Multiple-scale perturbation method on integro-differential equations: Application to continuous-time quantum walks on regular networks in non-Markovian reservoirs. Physical Review Research, 2019, 1, .	3.6	3
608	THE METASTABLE LIQUID-LIQUID PHASE TRANSITION: FROM WATER TO COLLOIDS AND LIQUID METALS.. , 2005, , .		3
609	Understanding the Unusual Properties of Water. , 2010, , 101-117.		3
610	Control of mobile chaotic agents with jump-based connection adaption strategy. New Journal of Physics, 2020, 22, 073032.	2.9	3
611	Highâ€temperature series for the Bâ€site spinel and diamond lattices and the question of universality. Journal of Chemical Physics, 1974, 60, 772-779.	3.0	2
612	Why are computer simulations of growth useful?. Materials Research Society Symposia Proceedings, 1995, 407, 391.	0.1	2

#	Article	IF	Citations
613	Turbulence: The legacy of A. N. Kolmogorov. Journal of Statistical Physics, 1997, 88, 521-523.	1.2	2
614	Some Considerations on Confined Water: The Thermal Behavior of Transport Properties in Water-Glycerol and Water-Methanol Mixtures. MRS Advances, 2016, 1, 1891-1902.	0.9	2
615	A generalization of random matrix theory and its application to statistical physics. Chaos, 2017, 27, 023104.	2.5	2
616	A multiple perspective method for urban subway network robustness analysis. AIP Advances, 2018, 8, .	1.3	2
617	Universal fluctuations in growth dynamics of economic systems. Scientific Reports, 2019, 9, 713.	3.3	2
618	Dynamic crossover and liquid-liquid critical point in the TIP5P model of water. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2007, , 23-33.	0.1	2
619	Scaling, Universality, and Renormalization: Three Pillars of Modern Critical Phenomena. , 1999, , 601-616.		2
620	Measuring social response to different journalistic techniques on Facebook. Humanities and Social Sciences Communications, 2020, 7, .	2.9	2
621	Statistical Laws Governing Fluctuations in Word Use from Word Birth to Word Death. SSRN Electronic Journal, 0, , .	0.4	2
622	Dynamical Macro-Prudential Stress Testing Using Network Theory. SSRN Electronic Journal, 0, , .	0.4	2
623	Short-run disequilibrium adjustment and long-run equilibrium in the international stock markets: A network-based approach. International Review of Financial Analysis, 2022, 79, 102002.	6.6	2
624	Impacts of Export Restrictions on the Global Personal Protective Equipment Trade Network During COVIDâ€19. Advanced Theory and Simulations, 2022, 5, 2100352.	2.8	2
625	A quantification method of non-failure cascading spreading in a network of networks. Chaos, 2021, 31, 123122.	2.5	2
626	A New Look at Calendar Anomalies: Multifractality and Day-of-the-Week Effect. Entropy, 2022, 24, 562.	2.2	2
627	Three Risky Decades: A Time for Econophysics?. Entropy, 2022, 24, 627.	2.2	2
628	Metastable Melting Lines for H2O and the Liquid-Liquid Phase Transition Hypothesis. Materials Research Society Symposia Proceedings, 1997, 499, 443.	0.1	1
629	Comparative study of self-avoiding trails and self-avoiding walks on a family of compact fractals. Physical Review E, 1998, 58, 5376-5381.	2.1	1
630	Limit theorems and price changes in financial markets. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1353-1356.	0.6	1

#	Article	IF	Citations
631	Physics of supercooled water: Possibility of two liquid phases. , 1999, , .		1
632	Novel multiscale regulation in human motor activity. , 2003, 5110, 235.		1
633	Transition between strong and weak disorder regimes for the optimal path. Physica A: Statistical Mechanics and Its Applications, 2005, 346, 174-182.	2.6	1
634	The Optimal Pathin an ErdÅ‘s-RÃ©nyi Random Graph. Lecture Notes in Physics, 0, , 127-137.	0.7	1
635	Liquid Water at Low Temperature: Clues for Biology?. , 2002, , 1-23.		1
636	Investigations of Financial Markets Using Statistical Physics Methods. , 2002, , 352-371.		1
637	Scale-Dependent Price Fluctuations for the Indian Stock Market. SSRN Electronic Journal, 0, , .	0.4	1
638	Statistical Properties of Commodity Price Fluctuations. , 2004, , 192-197.		1
639	A Unified Approach to Dynamic and Static Scaling. , 1972, , .		0
640	Crossing over from Lower Dimensionality to Higher Dimensionality Near the Critical Points of Quasi-1-Dimensional and Quasi-2-Dimensional Materials. , 1973, , .		0
641	Tricritical Behavior of an Ising Antiferromagnet with Next-Nearest Neighbor Ferromagnetic Interaction. Journal of the Physical Society of Japan, 1977, 42, 1055-1056.	1.6	0
642	Diffusion-Limited Aggregation on Percolating Cluster: Crossover and Multifractal Structure. Journal of the Physical Society of Japan, 1991, 60, 1217-1225.	1.6	0
643	Influence of Spatial Correlations on Permeability and Connectivity of Sandstone. Materials Research Society Symposia Proceedings, 1995, 407, 57.	0.1	0
644	Coherent anomaly method. Journal of Statistical Physics, 1997, 86, 441-441.	1.2	0
645	The lure of modern science. Journal of Statistical Physics, 1997, 86, 443-444.	1.2	0
646	Econophysics: What can physicists contribute to economics?. AIP Conference Proceedings, 2000, , .	0.4	0
647	Beyond 1/f: Multifractality in human heartbeat dynamics. AIP Conference Proceedings, 2000, , .	0.4	0
648	Scale invariance in biophysics. AIP Conference Proceedings, 2000, , .	0.4	0

#	Article	IF	Citations
649	Finding hidden patterns in complex ventricular ectopy. , 0, , .		0
650	Generating power-law tails in probability distributions. AIP Conference Proceedings, 2001, , .	0.4	0
651	The Random Quadratic Assignment Problem. Journal of Statistical Physics, 2011, 145, 734-744.	1.2	0
652	Diffusion interactions between crossing fibers of the brain. Magnetic Resonance in Medicine, 2021, 86, 429-441.	3.0	0
653	Quantifying Empirical Economic Fluctuations using the Organizing Principles of Scale Invariance and Universality. , 2002, , 3-11.		0
654	FRACTAL FEATURES IN THE NONSTATIONARITY OF PHYSIOLOGICAL TIME SERIES. , 2002, , .		0
655	Heterogeneities in the Dynamics of Supercooled Water. , 2004, , 145-161.		0
656	Liquid and Glassy Water: Two Materials of Interdisciplinary Interest. , 2005, , 2917-2922.		0
657	Temporal Structure of Volatility Fluctuations. , 2010, , 65-77.		0
658	Analytical Approach to the Robustness of Strongly Correlated Complex Networks. IEICE Proceeding Series, 2014, 1, 102-105.	0.0	0
659	Estimating Tipping Points in Feedback-Driven Financial Networks. SSRN Electronic Journal, 0, , .	0.4	0
660	Does the Wage Gap between Private and Public Sectors Encourage Political Corruption?. SSRN Electronic Journal, 0, , .	0.4	0
661	A Novel Causal Risk-Based Decision-Making Methodology: The Case of Coronavirus with Deficient Data. SSRN Electronic Journal, 0, , .	0.4	0
662	FLUCTUATIONS, NOISE AND SCALING IN THE CARDIO-PULMONARY SYSTEM. , 2022, , 269-293.		0
663	Liquid and Glassy Water: Two Materials of Interdisciplinary Interest. , 2005, , 2917-2922.		0