

# Hideki Takayasu

## List of Publications by Year in descending order

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204  
papers

4,933  
citations

94269

37  
h-index

114278

63  
g-index

214  
all docs

214  
docs citations

214  
times ranked

1921  
citing authors

#	ARTICLE	IF	CITATIONS
1	1/f NOISE IN A TRAFFIC MODEL. Fractals, 1993, 01, 860-866.	1.8	256
2	Stable Infinite Variance Fluctuations in Randomly Amplified Langevin Systems. Physical Review Letters, 1997, 79, 966-969.	2.9	253
3	Zipf's law in income distribution of companies. Physica A: Statistical Mechanics and Its Applications, 1999, 269, 125-131.	1.2	218
4	Extinction, survival, and dynamical phase transition of branching annihilating random walk. Physical Review Letters, 1992, 68, 3060-3063.	2.9	210
5	Correlation networks among currencies. Physica A: Statistical Mechanics and Its Applications, 2006, 364, 336-342.	1.2	166
6	Power-law mass distribution of aggregation systems with injection. Physical Review A, 1988, 37, 3110-3117.	1.0	146
7	Steady-state distribution of generalized aggregation system with injection. Physical Review Letters, 1989, 63, 2563-2565.	2.9	128
8	Critical behaviors and $1/f$ noise in information traffic. Physica A: Statistical Mechanics and Its Applications, 1996, 233, 824-834.	1.2	123
9	Simulation of Electric Breakdown and Resulting Variant of Percolation Fractals. Physical Review Letters, 1985, 54, 1099-1101.	2.9	118
10	Statistical properties of deterministic threshold elements – the case of market price. Physica A: Statistical Mechanics and Its Applications, 1992, 184, 127-134.	1.2	117
11	PARETO'S LAW FOR INCOME OF INDIVIDUALS AND DEBT OF BANKRUPT COMPANIES. Fractals, 2000, 08, 293-300.	1.8	111
12	Dynamic numerical models of stock market price: from microscopic determinism to macroscopic randomness. Physica A: Statistical Mechanics and Its Applications, 1998, 250, 231-252.	1.2	102
13	Rumor Diffusion and Convergence during the 3.11 Earthquake: A Twitter Case Study. PLoS ONE, 2015, 10, e0121443.	1.1	100
14	Country Dependence on Company Size Distributions and a Numerical Model Based on Competition and Cooperation. Fractals, 1998, 06, 67-79.	1.8	96
15	Dynamic phase transition observed in the Internet traffic flow. Physica A: Statistical Mechanics and Its Applications, 2000, 277, 248-255.	1.2	91
16	New type of self-organized criticality in a model of erosion. Physical Review Letters, 1992, 68, 966-969.	2.9	86
17	Statistical properties of aggregation with injection. Journal of Statistical Physics, 1991, 65, 725-745.	0.5	81
18	Phase transition in a computer network model. Physica A: Statistical Mechanics and Its Applications, 1998, 253, 315-322.	1.2	79

#	ARTICLE	IF	CITATIONS
19	Network motifs in an inter-firm network. <i>Journal of Economic Interaction and Coordination</i> , 2010, 5, 171-180.	0.4	61
20	Saturation transition in a monomer-monomer model of heterogeneous catalysis. <i>Journal of Physics A</i> , 1990, 23, 4297-4312.	1.6	58
21	Differential Fractal Dimension of Random Walk and Its Applications to Physical Systems. <i>Journal of the Physical Society of Japan</i> , 1982, 51, 3057-3064.	0.7	57
22	Stable Distribution and Levy Process in Fractal Turbulence. <i>Progress of Theoretical Physics</i> , 1984, 72, 471-479.	2.0	55
23	Analysis of high-resolution foreign exchange data of USD-JPY for 13 years. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 324, 296-302.	1.2	55
24	Hubs and Authorities in the World Trade Network Using a Weighted HITS Algorithm. <i>PLoS ONE</i> , 2014, 9, e100338.	1.1	54
25	Comment on "Noise-induced bistability in a Monte Carlo surface-reaction model". <i>Physical Review Letters</i> , 1989, 63, 2857-2857.	2.9	53
26	Potential force observed in market dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 370, 91-97.	1.2	53
27	Dynamical phase transition in threshold elements. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 131, 244-247.	0.9	52
28	Financial Brownian Particle in the Layered Order-Book Fluid and Fluctuation-Dissipation Relations. <i>Physical Review Letters</i> , 2014, 112, 098703.	2.9	52
29	Effect of Coagulation of Nodes in an Evolving Complex Network. <i>Physical Review Letters</i> , 2012, 108, 168701.	2.9	51
30	Power Law Velocity Fluctuations Due to Inelastic Collisions in Numerically Simulated Vibrated Bed of Powder. <i>Europhysics Letters</i> , 1995, 30, 499-504.	0.7	49
31	Predictability of currency market exchange. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 308, 368-374.	1.2	47
32	Self-similarity of banking network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 339, 621-634.	1.2	46
33	Hubs and Authorities on Japanese Inter-Firm Network: Characterization of Nodes in Very Large Directed Networks. <i>Progress of Theoretical Physics Supplement</i> , 2009, 179, 157-166.	0.2	42
34	Empirical analysis of collective human behavior for extraordinary events in the blogosphere. <i>Physical Review E</i> , 2013, 87, 012805.	0.8	42
35	Water erosion as a fractal growth process. <i>Physical Review E</i> , 1993, 47, 899-910.	0.8	41
36	Fractal features of the earthquake phenomenon and a simple mechanical model. <i>Journal of Geophysical Research</i> , 1991, 96, 19925-19931.	3.3	40

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37	Origin of critical behavior in Ethernet traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 287, 289-301.	1.2	40
38	A Deterministic Model of Fracture. <i>Progress of Theoretical Physics</i> , 1985, 74, 1343-1345.	2.0	38
39	Avalanche Behavior and Statistical Properties in a Microcrack Coalescence Process. <i>Physical Review Letters</i> , 1999, 82, 347-350.	2.9	38
40	Aspect Ratio Dependence of Impact Fragmentation. <i>Physical Review Letters</i> , 1997, 78, 3455-3458.	2.9	37
41	A mathematical definition of the financial bubbles and crashes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 120-124.	1.2	37
42	Derivation of the Boltzmann Equation for Financial Brownian Motion: Direct Observation of the Collective Motion of High-Frequency Traders. <i>Physical Review Letters</i> , 2018, 120, 138301.	2.9	35
43	Triangular arbitrage as an interaction among foreign exchange rates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 310, 467-479.	1.2	33
44	Finite-time singularity signature of hyperinflation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 325, 492-506.	1.2	33
45	Application of statistical physics to the Internet traffics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 274, 140-148.	1.2	29
46	Statistical properties of the moving average price in dollar-yen exchange rates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 344, 207-210.	1.2	29
47	Solvable stochastic dealer models for financial markets. <i>Physical Review E</i> , 2009, 79, 051120.	0.8	29
48	Generalised Central Limit Theorems for Growth Rate Distribution of Complex Systems. <i>Journal of Statistical Physics</i> , 2014, 155, 47-71.	0.5	29
49	SPATIAL AND TEMPORAL BEHAVIOR OF CONGESTION IN INTERNET TRAFFIC. <i>Fractals</i> , 1999, 07, 23-31.	1.8	28
50	Statistical Laws in the Income of Japanese Companies. , 2002, , 321-330.		28
51	Random walker in temporally deforming higher-order potential forces observed in a financial crisis. <i>Physical Review E</i> , 2009, 80, 056110.	0.8	27
52	THE BEHAVIOR OF A THRESHOLD MODEL OF MARKET PRICE IN STOCK EXCHANGE. <i>Fractals</i> , 1993, 01, 29-40.	1.8	25
53	Self-modulation processes and resulting generic $1/f$ fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 324, 101-107.	1.2	25
54	Application of the coherent anomaly method to percolation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 128, 45-48.	0.9	24

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55	Universal fragment size distribution in a numerical model of impact fracture. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 229, 5-25.	1.2	22
56	Relations between allometric scalings and fluctuations in complex systems: The case of Japanese firms. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 741-756.	1.2	22
57	Critical fluctuations of demand and supply. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 269, 24-29.	1.2	21
58	POWER LAW FLUCTUATION GENERATOR BASED ON ANALOG ELECTRICAL CIRCUIT. <i>Fractals</i> , 2000, 08, 219-225.	1.8	21
59	The mechanism of double-exponential growth in hyper-inflation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 308, 411-419.	1.2	21
60	Triangular arbitrage and negative auto-correlation of foreign exchange rates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 324, 253-257.	1.2	20
61	Image analysis of irregularity of cluster shape in cytological diagnosis of breast tumors: Cluster analysis with 2D-fractal dimension. <i>Diagnostic Cytopathology</i> , 2005, 33, 71-77.	0.5	20
62	Analysis of price diffusion in financial markets using PUCK model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 382, 187-192.	1.2	20
63	Simulations of a monomer-dimer catalysis model on a Sierpinski gasket. <i>Physical Review A</i> , 1991, 44, 8388-8389.	1.0	19
64	Characterization of foreign exchange market using the threshold-dealer-model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 382, 340-346.	1.2	19
65	Biased diffusion on the Japanese inter-firm trading network: estimation of sales from the network structure. <i>New Journal of Physics</i> , 2012, 14, 043034.	1.2	19
66	Financial Knudsen number: Breakdown of continuous price dynamics and asymmetric buy-and-sell structures confirmed by high-precision order-book information. <i>Physical Review E</i> , 2015, 92, 042811.	0.8	19
67	Reaction limited catalytic reaction in one dimension. <i>Journal of Physics A</i> , 1992, 25, L585-L591.	1.6	18
68	FRactal image analysis of natural scenes and medical images. <i>Fractals</i> , 1996, 04, 463-468.	1.8	18
69	Invariant power law distribution of Langevin systems with colored multiplicative noise. <i>Physical Review E</i> , 2000, 61, 1081-1087.	0.8	18
70	A characteristic time scale in dollar-yen exchange rates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 291, 574-582.	1.2	17
71	PATTERN FORMATION OF DENDRITIC FRACTALS IN FRACTURE AND ELECTRIC BREAKDOWN. , 1986, , 181-184.		16
72	The fractal dimension in computer-simulated random walks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1986, 113, 449-450.	0.9	16

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73	Left Heart Bypass Using the Oscillated Blood Flow with Totally Implantable Vibrating Flow Pump. Artificial Organs, 1998, 22, 426-429.	1.0	16
74	Extracting the exponential behaviors in the market data. Physica A: Statistical Mechanics and Its Applications, 2007, 382, 336-339.	1.2	16
75	A dynamical structure of high frequency currency exchange market. Physica A: Statistical Mechanics and Its Applications, 2003, 324, 366-371.	1.2	15
76	The mean-field approximation model of company's income growth. Physica A: Statistical Mechanics and Its Applications, 2004, 332, 403-411.	1.2	15
77	Identifying long-term periodic cycles and memories of collective emotion in online social media. PLoS ONE, 2019, 14, e0213843.	1.1	15
78	Estimating risk propagation between interacting firms on inter-firm complex network. PLoS ONE, 2017, 12, e0185712.	1.1	15
79	$f^{-2}$ Power Spectrum and Stable Distribution. Journal of the Physical Society of Japan, 1987, 56, 1257-1260.	0.7	14
80	Dynamics of quote and deal prices in the foreign exchange market. Journal of Economic Interaction and Coordination, 2008, 3, 99-106.	0.4	14
81	Kinetic theory for financial Brownian motion from microscopic dynamics. Physical Review E, 2018, 98, .	0.8	14
82	Apparent independency of an aggregation system with injection. Physical Review A, 1989, 39, 4345-4347.	1.0	13
83	Non-Gaussian distribution in random advection dynamics. Physical Review Letters, 1993, 70, 782-785.	2.9	13
84	NON-GAUSSIAN DISTRIBUTION IN RANDOM TRANSPORT DYNAMICS. International Journal of Modern Physics B, 1994, 08, 3887-3961.	1.0	13
85	Fractal Dimension Analysis of the Oscillated Blood Flow with a Vibrating Flow Pump. Artificial Organs, 1995, 19, 729-733.	1.0	12
86	Theoretical analysis of potential forces in markets. Physica A: Statistical Mechanics and Its Applications, 2007, 383, 115-119.	1.2	12
87	Motif formation and industry specific topologies in the Japanese business firm network. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 053404.	0.9	12
88	Transaction Interval Analysis of High Resolution Foreign Exchange Data. , 2002, , 18-25.		12
89	Traders' strategy with price feedbacks in financial market. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 330-334.	1.2	11
90	Appearance of Unstable Monopoly State Caused by Selective and Concentrative Mergers in Business Networks. Scientific Reports, 2017, 7, 5064.	1.6	11

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91	Zipf's Law and Heaps' Law Can Predict the Size of Potential Words. Progress of Theoretical Physics Supplement, 2012, 194, 202-209.	0.2	10
92	Empirical Analysis of Firm-Dynamics on Japanese Interfirm Trade Network. Springer Proceedings in Complexity, 2015, , 195-204.	0.2	10
93	Precise Calculation of a Bond Percolation Transition and Survival Rates of Nodes in a Complex Network. PLoS ONE, 2015, 10, e0119979.	1.1	10
94	Steady Distributions in Aggregation Process of Sticky Particles. Progress of Theoretical Physics, 1987, 78, 1-4.	2.0	9
95	Random walk or a run. Market microstructure analysis of foreign exchange rate movements based on conditional probability. Quantitative Finance, 2012, 12, 893-905.	0.9	9
96	A new approach to generalized diffusion limited aggregation models. The coherent anomaly method. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 132, 429-431.	0.9	8
97	The origin of asymmetric behavior of money flow in the business firm network. European Physical Journal: Special Topics, 2012, 212, 65-75.	1.2	8
98	Ecosystems perspective on financial networks: Diagnostic tools. Complexity, 2013, 19, 22-36.	0.9	8
99	Rapid detection of the switching point in a financial market structure using the particle filter. Journal of Statistical Computation and Simulation, 2014, 84, 2073-2090.	0.7	8
100	Diffusion-localization transition caused by nonlinear transport on complex networks. Scientific Reports, 2018, 8, 5517.	1.6	8
101	Ecology of trading strategies in a forex market for limit and market orders. PLoS ONE, 2018, 13, e0208332.	1.1	8
102	Nonlinear Dynamics of Low- $\beta^2$ Plasma and Drift-Wave Studies. Physica Scripta, 1982, T2A, 89-95.	1.2	7
103	Physical models of fractal functions. Japan Journal of Industrial and Applied Mathematics, 1984, 1, 201-205.	0.3	7
104	A new mesoscopic scale model for simulating fluid turbulence: the lattice vortex tube model. Physica D: Nonlinear Phenomena, 1993, 69, 366-379.	1.3	7
105	Continuum Limit and Renormalization of Market Price Dynamics Based on PUCK Model. Progress of Theoretical Physics Supplement, 2009, 179, 1-7.	0.2	7
106	Collective purchase behavior toward retail price changes. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 499-504.	1.2	7
107	Statistical properties of fluctuations of time series representing appearances of words in nationwide blog data and their applications: An example of modeling fluctuation scalings of nonstationary time series. Physical Review E, 2016, 94, 052317.	0.8	7
108	Universal scaling laws of collective human flow patterns in urban regions. Scientific Reports, 2020, 10, 21405.	1.6	7

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109	Market Fluctuations II: Multiplicative and Percolation Models, Size Effects, and Predictions. , 2002, , 410-435.		7
110	Long-Time Tails of One-Dimensional Lorentz Model with Fractal Distribution of Impurities. Physical Review Letters, 1984, 53, 633-636.	2.9	6
111	Stability and relaxation of power-law distribution. Physical Review A, 1990, 42, 7087-7090.	1.0	6
112	Self-organized criticality in a block lattice model of the brittle crust. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 242, 349-354.	0.9	6
113	The grounds for time dependent market potentials from dealersâ€™ dynamics. European Physical Journal B, 2008, 63, 529-532.	0.6	6
114	Estimation of Economic Indicator Announced by Government From Social Big Data. Entropy, 2018, 20, 852.	1.1	6
115	Assembling real networks from synthetic and unstructured subsets: the corporate reporting case. Scientific Reports, 2019, 9, 11075.	1.6	6
116	Classification of position management strategies at the order-book level and their influences on future market-price formation. PLoS ONE, 2019, 14, e0220645.	1.1	6
117	Detection of statistical asymmetries in non-stationary sign time series: Analysis of foreign exchange data. PLoS ONE, 2017, 12, e0177652.	1.1	6
118	A 3-dimensional mathematical model of microbial proliferation that generates the characteristic cumulative relative abundance distributions in gut microbiomes. PLoS ONE, 2017, 12, e0180863.	1.1	6
119	Universal scaling of human flow remain unchanged during the COVID-19 pandemic. Applied Network Science, 2021, 6, 75.	0.8	6
120	Fractals and Economics. , 2009, , 444-463.		6
121	Fractal Clusters and Stable Distribution. Journal of the Physical Society of Japan, 1988, 57, 2585-2587.	0.7	5
122	Lorentzian distribution of interacting vortex tubes. Physical Review A, 1990, 41, 2249-2251.	1.0	5
123	Extracting $1/f$ Fluctuation from the Arterial Blood Pressure of an Artificial Heart. Artificial Organs, 1996, 20, 777-782.	1.0	5
124	Long-term memory effects in closed random aggregating systems. Europhysics Letters, 1996, 33, 99-104.	0.7	5
125	Nonlinear Mathematical Analysis of the Hemodynamic Parameters During Left Ventricular Assistance with Oscillated Blood Flow. Artificial Organs, 1997, 21, 625-629.	1.0	5
126	SPATIO-TEMPORAL SEISMICITY IN AN ELASTIC BLOCK LATTICE MODEL. Fractals, 1999, 07, 301-311.	1.8	5



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127	A cause of self-similarity in TCP traffic. International Journal of Communication Systems, 2005, 18, 603-617.	1.6	5
128	Property of Fluctuations of Sales Quantities by Product Category in Convenience Stores. PLoS ONE, 2016, 11, e0157653.	1.1	5
129	Statistical Properties of a 3-Wave System. Journal of the Physical Society of Japan, 1985, 54, 1317-1321.	0.7	4
130	Universality class for extinction-survival phase transition in one dimension. Physical Review E, 1994, 49, 1070-1072.	0.8	4
131	Observation of Two Types of Behaviors of Financial Bubbles and the Related Higher-Order Potential Forces. Progress of Theoretical Physics Supplement, 2009, 179, 8-16.	0.2	4
132	REPLICATION OF NON-TRIVIAL DIRECTIONAL MOTION IN MULTI-SCALES OBSERVED BY THE RUNS TEST. International Journal of Modern Physics Conference Series, 2012, 16, 136-148.	0.7	4
133	Modeling and simulation of Japanese inter-firm network. Artificial Life and Robotics, 2019, 24, 257-261.	0.7	4
134	A parity conserving model with spontaneous annihilation. Journal of Physics A, 1995, 28, 1145-1147.	1.6	3
135	Fractal dimension analysis of the muscle sympathetic nerve activity. Pathophysiology, 1995, 2, 173-176.	1.0	3
136	An analysis on the critical phenomena in CSMA/CD network traffic model by computer simulations. Electronics and Communications in Japan, 2004, 87, 98-106.	0.1	3
137	The role of random dendrites and inhibitory pathways in retinal neuron networks. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 513-524.	1.2	3
138	On the nonstationarity of the exchange rate process. International Review of Financial Analysis, 2012, 23, 30-34.	3.1	3
139	Basic methods of change-point detection of financial fluctuations. , 2015, , .		3
140	Power-Law Distributions from Sigma-Pi Structure of Sums of Random Multiplicative Processes. Entropy, 2017, 19, 417.	1.1	3
141	Smoluchowski Equation for Networks: Merger Induced Intermittent Giant Node Formation and Degree Gap. Journal of Statistical Physics, 2018, 172, 1086-1100.	0.5	3
142	Time evolution of companies towards a stable scaling curve obtained from flow diagrams in three-dimensional phase space. New Journal of Physics, 2019, 21, 043038.	1.2	3
143	Robust Characterization of Multidimensional Scaling Relations between Size Measures for Business Firms. Entropy, 2021, 23, 168.	1.1	3
144	Computer Simulation of Pore Formation in Iron-ore Sintercake. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1996, 82, 111-115.	0.1	3

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145	Allometric Scaling of Mutual Information in Complex Networks: A Conceptual Framework and Empirical Approach. <i>Entropy</i> , 2020, 22, 206.	1.1	3
146	Derivation of ARCH(1) process from market price changes based on deterministic microscopic multi-agent. , 2002, , 171-178.		3
147	Aggregation with power-law and fractal input. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 189, 4-14.	1.2	2
148	POWER-LAW DISTRIBUTION OF RIVER BASIN SIZES. <i>Fractals</i> , 1993, 01, 521-528.	1.8	2
149	WATER EROSION ON FRACTAL SURFACE. <i>Fractals</i> , 1996, 04, 385-392.	1.8	2
150	FRACTAL LIMIT DISTRIBUTIONS IN RANDOM TRANSPORTS. <i>Fractals</i> , 1996, 04, 257-264.	1.8	2
151	Spectral Analysis of Multichannel Meg Data. <i>Fractals</i> , 1998, 06, 395-400.	1.8	2
152	Triangular Arbitrage in the Foreign Exchange Market. , 2004, , 18-23.		2
153	Temporal characteristics of moving average of foreign exchange markets. , 2006, , 29-32.		2
154	Dependence of the number of dealers in a stochastic dealer model. <i>Journal of Physics: Conference Series</i> , 2010, 221, 012015.	0.3	2
155	Extraction of conjugate main-stream structures from a complex network flow. <i>Physical Review E</i> , 2015, 91, 042815.	0.8	2
156	Tracking Poisson Parameter for Non-Stationary Discontinuous Time Series with Taylor's Abnormal Fluctuation Scaling. <i>Stats</i> , 2019, 2, 55-69.	0.5	2
157	Segmentation of time series in up- and down-trends using the epsilon-tau procedure with application to USD/JPY foreign exchange market data. <i>PLoS ONE</i> , 2020, 15, e0239494.	1.1	2
158	The microscopic relationships between triangular arbitrage and cross-currency correlations in a simple agent based model of foreign exchange markets. <i>PLoS ONE</i> , 2020, 15, e0234709.	1.1	2
159	Sigma-Pi Structure with Bernoulli Random Variables: Power-Law Bounds for Probability Distributions and Growth Models with Interdependent Entities. <i>Entropy</i> , 2021, 23, 241.	1.1	2
160	Execution and Cancellation Lifetimes in Foreign Currency Market. <i>Springer Proceedings in Complexity</i> , 2015, , 27-37.	0.2	2
161	Deterministic and stochastic influences on Japan and US stock and foreign exchange markets. A Fokker-Planck approach. , 2004, , 161-168.		2
162	Investment strategy based on a company growth model. , 2004, , 256-261.		2

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163	Construction of the Spread Dealer Model and its Application. Transactions of the Japanese Society for Artificial Intelligence, 2012, 27, 365-375.	0.1	2
164	Diffusion-Localization Transition Point of Gravity Type Transport Model on Regular Ring Lattices and Bethe Lattices. Journal of Statistical Physics, 2022, 186, 1.	0.5	2
165	UNIVERSALITY OF 1-DIMENSIONAL REACTION MODELS. Fractals, 1993, 01, 480-490.	1.8	1
166	FRACTAL ANALYSES FOR A MODEL OF IMPACT FRAGMENTATION. Fractals, 1996, 04, 393-399.	1.8	1
167	Application of statistical physics to impact fragmentation. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 300-309.	1.2	1
168	ASYMMETRIC INHIBITORY CONNECTIONS ENHANCE DIRECTIONAL SELECTIVITY IN A THREE-LAYER SIMULATION MODEL OF RETINAL NETWORKS. Journal of Integrative Neuroscience, 2010, 09, 337-350.	0.8	1
169	Random coefficient autoregressive processes and the PUCK model with fluctuating potential. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 013403.	0.9	1
170	Estimation of sales decrease caused by a disaster: Hokkaido blackout after earthquake in 2018. Journal of Computational Social Science, 2019, 2, 47-51.	1.4	1
171	Simulation of Gross Domestic Product in International Trade Networks: Linear Gravity Transportation Model. Springer Proceedings in Complexity, 2015, , 111-118.	0.2	1
172	Parameter Estimation of a Generalized Langevin Equation of Market Price. , 2002, , 260-270.		1
173	Market price simulator based on analog electrical circuit. , 2002, , 214-221.		1
174	Influence Networks in the Foreign Exchange Market. Springer Proceedings in Complexity, 2015, , 3-13.	0.2	1
175	Classification of endogenous and exogenous bursts in collective emotions based on Weibo comments during COVID-19. Scientific Reports, 2022, 12, 3120.	1.6	1
176	At the edge of a percolation system: Half space percolation. Solid State Communications, 1992, 82, 513-516.	0.9	0
177	Intermittency and Scaling in Cascading Random Transport. Fractals, 1998, 06, 121-126.	1.8	0
178	Error propagation in a model of impact fracture. Physical Review E, 1998, 58, 5179-5182.	0.8	0
179	Analysis of spontaneous magnetoencephalography data by similarity measures. Physica A: Statistical Mechanics and Its Applications, 1999, 270, 543-551.	1.2	0
180	Modeling a foreign exchange rate using moving average of Yen-Dollar market data. , 2006, , 57-61.		0

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181	MINORITY AND MAJORITY GAMES IN FINANCIAL MARKETS. <i>Fractals</i> , 2007, 15, 97-100.	1.8	0
182	Estimation of Parameters from Discrete Random Nonstationary Time Series. <i>Progress of Theoretical Physics Supplement</i> , 2009, 179, 198-208.	0.2	0
183	Preface to the special issue. <i>Journal of Economic Interaction and Coordination</i> , 2010, 5, 169-170.	0.4	0
184	The limit distributions of growth rate fluctuation of complex systems: An application to business firms. , 2011, , .		0
185	Fluctuation scaling in online social media. , 2015, , .		0
186	A Dealer Model of Foreign Exchange Market with Finite Assets. , 2017, , .		0
187	Measuring Statistical Asymmetries of Stochastic Processes: Study of the Autoregressive Process. <i>Entropy</i> , 2018, 20, 511.	1.1	0
188	Dynamics of essential interaction between firms on financial reports. <i>PLoS ONE</i> , 2019, 14, e0225853.	1.1	0
189	Metabolic Dynamics of Ecosystems Realizing Steady Log-Uniform Distributions: The Case of Commodities in Shops. <i>Entropy</i> , 2020, 22, 267.	1.1	0
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