

Anirban Chakraborti

List of Publications by Year in descending order

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103
papers

3,534
citations

279798

23
h-index

161849

54
g-index

117
all docs

117
docs citations

117
times ranked

1604
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of market correlations: Taxonomy and portfolio analysis. Physical Review E, 2003, 68, 056110.	2.1	546
2	Statistical mechanics of money: how saving propensity affects its distribution. European Physical Journal B, 2000, 17, 167-170.	1.5	349
3	Econophysics review: I. Empirical facts. Quantitative Finance, 2011, 11, 991-1012.	1.7	265
4	Dynamic asset trees and Black Monday. Physica A: Statistical Mechanics and Its Applications, 2003, 324, 247-252.	2.6	250
5	Econophysics review: II. Agent-based models. Quantitative Finance, 2011, 11, 1013-1041.	1.7	205
6	Dynamic asset trees and portfolio analysis. European Physical Journal B, 2002, 30, 285-288.	1.5	150
7	Asset Trees and Asset Graphs in Financial Markets. Physica Scripta, 2003, T106, 48.	2.5	145
8	Statistical model with a standard distribution. Physical Review E, 2004, 70, 016104.	2.1	130
9	DISTRIBUTIONS OF MONEY IN MODEL MARKETS OF ECONOMY. International Journal of Modern Physics C, 2002, 13, 1315-1321.	1.7	110
10	Statistical mechanics of competitive resource allocation using agent-based models. Physics Reports, 2015, 552, 1-25.	25.6	79
11	Opinion formation in kinetic exchange models: Spontaneous symmetry-breaking transition. Physical Review E, 2010, 82, 056112.	2.1	78
12	Basic kinetic wealth-exchange models: common features and open problems. European Physical Journal B, 2010, 73, 145-153.	1.5	75
13	Visible light driven photocatalysis of organic dyes using SnO ₂ decorated MoS ₂ nanocomposites. Chemical Physics Letters, 2020, 738, 136874.	2.6	58
14	Gibbs versus non-Gibbs distributions in money dynamics. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 334-339.	2.6	49
15	Influence of saving propensity on the power-law tail of the wealth distribution. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 723-736.	2.6	47
16	First principles calculations of the optical properties of C _x N _y single walled nanotubes. Nanotechnology, 2009, 20, 175701.	2.6	41
17	A Review of Empirical Studies and Models of Income Distributions in Society. , 0, , 131-159.		40
18	Identifying long-term precursors of financial market crashes using correlation patterns. New Journal of Physics, 2018, 20, 103041.	2.9	35

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19	Gamma-distribution and wealth inequality. <i>Pramana - Journal of Physics</i> , 2008, 71, 233-243.	1.8	32
20	Variational Principle for the Pareto Power Law. <i>Physical Review Letters</i> , 2009, 103, 228701.	7.8	31
21	Gold nanoflowers as efficient hosts for SERS based sensing and bio-imaging. <i>Nano Structures Nano Objects</i> , 2018, 16, 329-336.	3.5	31
22	Kinetic exchange models: From molecular physics to social science. <i>American Journal of Physics</i> , 2013, 81, 618-623.	0.7	30
23	Relaxation in statistical many-agent economy models. <i>European Physical Journal B</i> , 2007, 57, 219-224.	1.5	28
24	A novel approach for classification of mental tasks using multiview ensemble learning (MEL). <i>Neurocomputing</i> , 2020, 417, 558-584.	5.9	27
25	Ab initio calculation of magnetic properties of p-block element doped ZnO. <i>RSC Advances</i> , 2014, 4, 45598-45602.	3.6	22
26	Searching for good strategies in adaptive minority games. <i>Physical Review E</i> , 2004, 69, 036125.	2.1	18
27	Network geometry and market instability. <i>Royal Society Open Science</i> , 2021, 8, 201734.	2.4	18
28	A self-organising model of market with single commodity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 297, 253-259.	2.6	16
29	How "Hit" is Born: The Emergence of Popularity from the Dynamics of Collective Choice. , 0, , 417-447.		15
30	Copulas and time series with long-ranged dependencies. <i>Physical Review E</i> , 2014, 89, 042117.	2.1	14
31	Self-organization Principles in Supply Networks and Production Systems. , 0, , 535-559.		14
32	Intelligent minority game with genetic crossover strategies. <i>European Physical Journal B</i> , 2003, 34, 373-377.	1.5	13
33	Adaptation using hybridized genetic crossover strategies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 322, 701-709.	2.6	13
34	Complex Market Dynamics in the Light of Random Matrix Theory. <i>New Economic Windows</i> , 2019, , 13-34.	1.0	13
35	A Thermodynamic Formulation of Social Science. , 0, , 279-309.		13
36	Invariant features of spatial inequality in consumption: The case of India. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 442, 169-181.	2.6	12

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37	Role of a polymeric component in the phase separation of ternary fluid mixtures: a dissipative particle dynamics study. <i>Soft Matter</i> , 2018, 14, 4317-4326.	2.7	12
38	Threshold-induced phase transition in kinetic exchange models. <i>Physical Review E</i> , 2011, 83, 061130.	2.1	11
39	Investigating resonance energy transfer from protein molecules to van der Waals nanosheets. <i>RSC Advances</i> , 2017, 7, 26250-26255.	3.6	11
40	Financial fluctuations anchored to economic fundamentals: A mesoscopic network approach. <i>Scientific Reports</i> , 2017, 7, 8055.	3.3	11
41	A complex network analysis of ethnic conflicts and human rights violations. <i>Scientific Reports</i> , 2017, 7, 8283.	3.3	11
42	Enhanced photocatalytic activity of plasmonic Au nanoparticles incorporated MoS ₂ nanosheets for degradation of organic dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 6168-6184.	2.2	10
43	Emerging spectra characterization of catastrophic instabilities in complex systems. <i>New Journal of Physics</i> , 2020, 22, 063043.	2.9	10
44	Social Opinion Dynamics. , 0, , 339-366.		9
45	Phase separation and scaling in correlation structures of financial markets. <i>Journal of Physics Complexity</i> , 2021, 2, 015002.	2.2	9
46	A Thermodynamic Formulation of Economics. , 0, , 1-33.		7
47	Biology Helps You to Win a Game. <i>Physica Scripta</i> , 2003, T106, 32-35.	2.5	7
48	MARKET APPLICATION OF THE PERCOLATION MODEL: RELATIVE PRICE DISTRIBUTION. <i>International Journal of Modern Physics C</i> , 2002, 13, 25-29.	1.7	6
49	Entangled three-particle states in magnetic field: periodic correlations and density matrices. <i>Indian Journal of Physics</i> , 2012, 86, 791-800.	1.8	6
50	A model-free characterization of recurrences in stationary time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 474, 312-318.	2.6	6
51	Network-centric Indicators for Fragility in Global Financial Indices. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	6
52	Models of Wealth Distributionsâ€“ A Perspective. , 0, , 161-190.		6
53	The travelling salesman problem on randomly diluted lattices: Results for small-size systems. <i>European Physical Journal B</i> , 2000, 16, 677-680.	1.5	5
54	Anomalous transmission in a hierarchical lattice. <i>Physical Review B</i> , 2000, 61, 7395-7401.	3.2	5

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55	FINANCIAL AND OTHER SPATIO-TEMPORAL TIME SERIES: LONG-RANGE CORRELATIONS AND SPECTRAL PROPERTIES. <i>International Journal of Modern Physics C</i> , 2005, 16, 1733-1743.	1.7	5
56	The near-extreme density of intraday log-returns. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 147-155.	2.6	5
57	Effect of bond-disorder on the phase-separation kinetics of binary mixtures: A Monte Carlo simulation study. <i>Journal of Chemical Physics</i> , 2017, 147, 124902.	3.0	5
58	Identifying the global terror hubs and vulnerable motifs using complex network dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 123113.	2.6	5
59	Interaction of fluorescent gold nanoclusters with transition metal dichalcogenides nanosheets: A spectroscopic study. <i>Journal of Luminescence</i> , 2020, 227, 117589.	3.1	5
60	Crowd Dynamics. , 0, , 449-472.		5
61	Complexities of Social Networks: A Physicist's Perspective. , 0, , 473-506.		5
62	Econophysics of Stock and Foreign Currency Exchange Markets. , 0, , 249-278.		5
63	Financial Time-series Analysis: a Brief Overview. , 2007, , 51-67.		5
64	Sectoral Co-movements in the Indian Stock Market: A Mesoscopic Network Analysis. <i>Evolutionary Economics and Social Complexity Science</i> , 2017, , 211-238.	0.7	5
65	Opinion Dynamics, Minority Spreading and Heterogeneous Beliefs. , 0, , 367-391.		4
66	Statistical inference of co-movements of stocks during a financial crisis. <i>Journal of Physics: Conference Series</i> , 2013, 473, 012008.	0.4	4
67	Can an interdisciplinary field contribute to one of the parent disciplines from which it emerged?. <i>European Physical Journal: Special Topics</i> , 2016, 225, 3127-3135.	2.6	4
68	Computer Simulation of Language Competition by Physicists. , 0, , 311-337.		4
69	Study of Statistical Correlations in Intraday and Daily Financial Return Time Series. <i>New Economic Windows</i> , 2013, , 77-104.	1.0	4
70	THE EUCLIDEAN TRAVELLING SALESMAN PROBLEM: FREQUENCY DISTRIBUTION OF NEIGHBORS FOR SMALL-SIZE SYSTEMS. <i>International Journal of Modern Physics C</i> , 2001, 12, 857-863.	1.7	3
71	Resonance Raman scattering and ab initio calculation of electron energy loss spectra of MoS ₂ nanosheets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 4057-4061.	2.1	3
72	Quantifying invariant features of within-group inequality in consumption across groups. <i>Journal of Economic Interaction and Coordination</i> , 2018, 13, 469-490.	0.7	3

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73	Distress propagation on production networks: Coarse-graining and modularity of linkages. Physica A: Statistical Mechanics and Its Applications, 2021, 568, 125714.	2.6	3
74	Themes and Applications of Kinetic Exchange Models: Redux. New Economic Windows, 2014, , 99-129.	1.0	3
75	Global Terrorism versus Social Permeability to Underground Activities. , 0, , 393-416.		2
76	Quantum entanglement: the unitary 8-vertex braid matrix with imaginary rapidity. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 482001.	2.1	2
77	Spatiotemporal pattern formation in a prey-predator model under environmental driving forces. Journal of Physics: Conference Series, 2015, 638, 012004.	0.4	2
78	Kinetic Exchange Models as D Dimensional Systems: A Comparison of Different Approaches. New Economic Windows, 2017, , 147-158.	1.0	2
79	Spatio-Temporal Networks of Social Conflicts: Analysis and Modeling. , 2018, , .		2
80	Hamiltonian energy as an efficient approach to identify the significant key regulators in biological networks. PLoS ONE, 2019, 14, e0221463.	2.5	2
81	Zero-intelligence Models of Limit-order Markets. , 0, , 35-63.		2
82	Growth of Firms and Networks. , 0, , 99-129.		2
83	The Contribution of Money-transfer Models to Economics. , 0, , 191-217.		2
84	Kinetic Exchange Models in Economics and Sociology. Springer Proceedings in Mathematics and Statistics, 2015, , 69-88.	0.2	2
85	An Outlook on Correlations in Stock Prices. , 2006, , 13-23.		2
86	Opinion Formation in the Kinetic Exchange Models. New Economic Windows, 2011, , 289-304.	1.0	1
87	New classes of spin chains from $(\widehat{\mathfrak{O}}_{(q)}(N) \oplus \widehat{\mathfrak{so}}_{(q)}(N), \widehat{\mathfrak{p}})$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 entanglement entropies. Journal of Mathematical Physics, 2013, 54, .	1.1	1
88	STATPHYS-KOLKATA VIII. Journal of Physics: Conference Series, 2015, 638, 011001.	0.4	1
89	Power-Laws as Statistical Mixtures. Springer Proceedings in Complexity, 2016, , 271-282.	0.3	1
90	The Microscopic Origin of the Pareto Law and Other Power-Law Distributions. New Economic Windows, 2017, , 159-176.	1.0	1

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91	Patterns of Linguistic Diffusion in Space and Time: The Case of Mazatec. <i>New Economic Windows</i> , 2017, , 227-251.	1.0	1
92	Hurst Exponent as a New Ingredient to Parametric Feature Set for Mental Task Classification. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 129-137.	0.6	1
93	Cognitive Task Classification Using Fuzzy Based Empirical Wavelet Transform. , 2018, , .		1
94	Physicistsâ€™ Approaches to a Few Economic Problems. <i>New Economic Windows</i> , 2015, , 237-286.	1.0	1
95	Understanding and Managing the Future Evolution of a Competitive Multi-agent Population. , 0, , 65-98.		1
96	Fluctuations in Foreign Exchange markets. , 0, , 219-247.		1
97	Quantifying Invariant Features of Within-Group Inequality in Consumption Across Groups. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
98	Global Income Inequality and Savings: A Data Science Perspective. , 2018, , .		0
99	Visible lightâ€driven photocatalytic degradation of methyl orange by $\text{Fe}_{2}\text{O}_{3}$ â€BiOCl _{0.5} Br _{0.5} composite photocatalyst. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2715.	1.5	0
100	Agent-based models of economic interactions. , 2010, , 3-29.		0
101	Group-Based Pricing to Shape Demand in Real-Time Electricity Markets. <i>Lecture Notes in Computer Science</i> , 2016, , 121-128.	1.3	0
102	Emergence of Memory in Networks of Nonlinear Units: From Neurons to Plant Cells. , 0, , 507-533.		0
103	Can we Recognize an Innovation?: Perspective from an Evolving Network Model. , 0, , 561-591.		0