

Bikas K Chakrabarti

List of Publications by Citations

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

135
papers

2,888
citations

22
h-index

52
g-index

153
ext. papers

3,259
ext. citations

4.3
avg, IF

5.35
L-index

#	Paper	IF	Citations
135	Dynamic transitions and hysteresis. <i>Reviews of Modern Physics</i> , 1999 , 71, 847-859	40.5	373
134	Colloquium: Quantum annealing and analog quantum computation. <i>Reviews of Modern Physics</i> , 2008 , 80, 1061-1081	40.5	360
133	Failure processes in elastic fiber bundles. <i>Reviews of Modern Physics</i> , 2010 , 82, 499-555	40.5	225
132	Pareto law in a kinetic model of market with random saving propensity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 335, 155-163	3.3	204
131	Response of Ising systems to oscillating and pulsed fields: Hysteresis, ac, and pulse susceptibility. <i>Physical Review B</i> , 1995 , 52, 6550-6568	3.3	189
130	Quantum Ising Phases and Transitions in Transverse Ising Models. <i>Lecture Notes in Physics</i> , 2013 ,	0.8	146
129	Statistical physics of fracture, friction, and earthquakes. <i>Reviews of Modern Physics</i> , 2012 , 84, 839-884	40.5	126
128	Infinite-range Ising ferromagnet in a time-dependent transverse magnetic field: Quench and ac dynamics near the quantum critical point. <i>Physical Review B</i> , 2006 , 74,	3.3	76
127	Opinion formation in kinetic exchange models: spontaneous symmetry-breaking transition. <i>Physical Review E</i> , 2010 , 82, 056112	2.4	70
126	Statistical mechanics of competitive resource allocation using agent-based models. <i>Physics Reports</i> , 2015 , 552, 1-25	27.7	69
125	Master equation for a kinetic model of a trading market and its analytic solution. <i>Physical Review E</i> , 2005 , 72, 026126	2.4	69
124	Money in Gas-Like Markets: Gibbs and Pareto Laws. <i>Physica Scripta</i> , 2003 , T106, 36	2.6	60
123	FAILURE PROPERTIES OF FIBER BUNDLE MODELS. <i>International Journal of Modern Physics B</i> , 2003 , 17, 5565-5581	1.1	46
122	Microeconomics of the ideal gas like market models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 4151-4158	3.3	45
121	Phase transition in fiber bundle models with recursive dynamics. <i>Physical Review E</i> , 2003 , 67, 046122	2.4	45
120	Precursors of catastrophe in the Bak-Tang-Wiesenfeld, Manna, and random-fiber-bundle models of failure. <i>Physical Review E</i> , 2002 , 65, 016113	2.4	45
119	Inequality in societies, academic institutions and science journals: Gini and k-indices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 410, 30-34	3.3	42

118	Stick-slip statistics for two fractal surfaces: a model for earthquakes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 270, 27-34	3.3	38
117	Monte Carlo study of hysteretic response and relaxation in Ising models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993 , 192, 471-485	3.3	33
116	Deterministic stochastic resonance in a piecewise linear chaotic map. <i>Physical Review E</i> , 1998 , 58, 8009-8012	2.4	29
115	Quantum annealing in a kinetically constrained system. <i>Physical Review E</i> , 2005 , 72, 026701	2.4	26
114	Phase transitions and non-equilibrium relaxation in kinetic models of opinion formation. <i>Journal of Physics: Conference Series</i> , 2011 , 297, 012004	0.3	23
113	Failure due to fatigue in fiber bundles and solids. <i>Physical Review E</i> , 2003 , 67, 046124	2.4	22
112	Crossover behavior in a mixed-mode fiber bundle model. <i>Physical Review E</i> , 2005 , 71, 036149	2.4	21
111	Socio-economic inequality: Relationship between Gini and Kolkata indices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 466, 583-595	3.3	20
110	Fluctuation cumulant behavior for the field-pulse-induced magnetization-reversal transition in Ising models. <i>Physical Review E</i> , 2003 , 67, 046113	2.4	20
109	Ideal-gas-like market models with savings: Quenched and annealed cases. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 382, 36-41	3.3	18
108	A common mode of origin of power laws in models of market and earthquake. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 381, 377-382	3.3	18
107	Dynamic magnetization-reversal transition in the Ising model. <i>Physical Review E</i> , 1998 , 58, 4277-4283	2.4	18
106	Universality of Citation Distributions for Academic Institutions and Journals. <i>PLoS ONE</i> , 2016 , 11, e0146762	3.7	18
105	Spin-reversal transition in Ising model under pulsed field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 246, 510-518	3.3	16
104	Growth of breakdown susceptibility in random composites and the stick-slip model of earthquakes: Prediction of dielectric breakdown and other catastrophes. <i>Physical Review E</i> , 1996 , 53, 140-147	2.4	16
103	A fiber bundle model of traffic jams. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 372, 162-166	3.5	15
102	A self-organising model of market with single commodity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 297, 253-259	3.3	15
101	Magnitude Distribution of Earthquakes: Two Fractal Contact Area Distribution. <i>Physica Scripta</i> , 2003 , T106, 77	2.6	14

100	Response of random dielectric composites and earthquake models to pulses: prediction possibilities. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 224, 254-266	3.3	14
99	Inequality measures in kinetic exchange models of wealth distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 451, 465-474	3.3	13
98	Zipf's law in city size from a resource utilization model. <i>Physical Review E</i> , 2014 , 90, 042815	2.4	13
97	Magnetic hysteresis loops as Lissajous plots of relaxationally delayed response to periodic field variation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994 , 202, 467-481	3.3	12
96	Competing field pulse induced dynamic transition in Ising Models. <i>Phase Transitions</i> , 2004 , 77, 581-600	1.3	11
95	Self-organization Principles in Supply Networks and Production Systems 535-559		11
94	Self-organized dynamics in local load-sharing fiber bundle models. <i>Physical Review E</i> , 2013 , 88, 042112	2.4	10
93	Threshold-induced phase transition in kinetic exchange models. <i>Physical Review E</i> , 2011 , 83, 061130	2.4	10
92	A fractal model of earthquake occurrence: Theory, simulations and comparisons with the aftershock data. <i>Journal of Physics: Conference Series</i> , 2011 , 319, 012004	0.3	10
91	Statistical Theories of Income and Wealth Distribution. <i>Economics</i> , 2010 , 4,	1.3	10
90	A Review of Empirical Studies and Models of Income Distributions in Society 131-159		10
89	Classical-to-quantum crossover in the critical behavior of the transverse-field Sherrington-Kirkpatrick spin glass model. <i>Physical Review E</i> , 2015 , 92, 042107	2.4	8
88	Mean-field and Monte Carlo studies of the magnetization-reversal transition in the Ising model. <i>Journal of Physics A</i> , 2000 , 33, 4249-4264		8
87	Possible ergodic-nonergodic regions in the quantum Sherrington-Kirkpatrick spin glass model and quantum annealing. <i>Physical Review E</i> , 2018 , 97, 022146	2.4	7
86	Quantum phase transition in a disordered long-range transverse Ising antiferromagnet. <i>Physical Review E</i> , 2010 , 81, 021101	2.4	7
85	Reaching the ground state of a quantum spin glass using a zero-temperature quantum Monte Carlo method. <i>Physical Review E</i> , 2008 , 78, 061121	2.4	7
84	Two-fractal overlap time series: Earthquakes and market crashes 2008 , 71, 203-210		7
83	Social Opinion Dynamics 339-366		7

82	How a Hit Is Born: The Emergence of Popularity from the Dynamics of Collective Choice 417-447		7
81	Crossover behaviors in one and two dimensional heterogeneous load sharing fiber bundle models. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	6
80	Noise-induced rupture process: phase boundary and scaling of waiting time distribution. <i>Physical Review E</i> , 2013 , 88, 012123	2.4	6
79	A Thermodynamic Formulation of Social Science 279-309		6
78	Equivalence of the train model of earthquake and boundary driven Edwards-Wilkinson interface. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	5
77	Dynamic transitions in pure Ising magnets under pulsed and oscillating fields. <i>Computer Physics Communications</i> , 2002 , 147, 120-125	4.2	5
76	AC susceptibility and hysteresis in Ising magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 136, L29-L32	2.8	5
75	Quantum Annealing. <i>Lecture Notes in Physics</i> , 2013 , 225-289	0.8	5
74	Comments on Worrying Trends in Econophysics Income Distribution Models 2006 , 244-253		5
73	Models of Wealth Distributions A Perspective 161-190		5
72	Econophysics of Stock and Foreign Currency Exchange Markets 249-278		5
71	Response of the two-dimensional kinetic Ising model under a stochastic field. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013 , 2013, P11015	1.9	4
70	Social inequality: from data to statistical physics modeling. <i>Journal of Physics: Conference Series</i> , 2015 , 638, 012014	0.3	4
69	A novel quantum transition in a fully frustrated transverse Ising antiferromagnet. <i>Journal of Physics: Conference Series</i> , 2009 , 143, 012013	0.3	4
68	Neural network modeling. <i>Progress in Brain Research</i> , 2008 , 168, 155-68	2.9	4
67	Opinion Dynamics, Minority Spreading and Heterogeneous Beliefs 367-391		4
66	Hydrodynamic descriptions for surface roughness in fracture front propagation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 377,	3	4
65	Crowd Dynamics 449-472		4

64	Flory-like statistics of fracture in the fiber bundle model as obtained via Kolmogorov dispersion for turbulence: A conjecture. <i>Physical Review E</i> , 2020 , 102, 012113	2.4	3
63	Econophysics of the Kolkata Restaurant Problem and Related Games. <i>New Economic Windows</i> , 2017	0.5	3
62	A Zero-Temperature Quantum Monte Carlo Algorithm and Quantum Spin Glasses. <i>Computing in Science and Engineering</i> , 2010 , 12, 64-72	1.5	3
61	Fractal Models of Earthquake Dynamics 2010 , 107-158		3
60	Critical fatigue behaviour in brittle glasses. <i>Bulletin of Materials Science</i> , 2001 , 24, 161-164	1.7	3
59	IMPROVED PERFORMANCE OF THE HOPFIELD AND LITTLE NEURAL NETWORK MODELS WITH TIME DELAYED DYNAMICS. <i>International Journal of Modern Physics B</i> , 1995 , 09, 3025-3037	1.1	3
58	Kinetic Exchange Opinion Model: Solution in the Single Parameter Map Limit. <i>New Economic Windows</i> , 2014 , 131-143	0.5	3
57	Study of the Response to Pulses and Possible Prediction of Catastrophes. <i>Journal De Physique, I</i> , 1995 , 5, 153-158		3
56	Introduction to critical phenomena through the fiber bundle model of fracture. <i>European Journal of Physics</i> , 2019 , 40, 014004	0.8	3
55	Development of Econophysics: A Biased Account and Perspective from Kolkata. <i>Entropy</i> , 2021 , 23,	2.8	3
54	Ideal-Gas Like Markets: Effect of Savings. <i>New Economic Windows</i> , 2005 , 79-92	0.5	3
53	Effect of fractal disorder on static friction in the Tomlinson model. <i>Physical Review E</i> , 2010 , 82, 041124	2.4	2
52	Phase transition in the Kolkata Paise Restaurant problem. <i>Chaos</i> , 2020 , 30, 083116	3.3	2
51	A Thermodynamic Formulation of Economics1-33		2
50	Computer Simulation of Language Competition by Physicists311-337		2
49	Growth of Firms and Networks99-129		2
48	Story of the Developments in Statistical Physics of Fracture, Breakdown and Earthquake: A Personal Account. <i>Reports in Advances of Physical Sciences</i> , 2017 , 01, 1750013	0.5	1
47	Global Terrorism versus Social Permeability to Underground Activities393-416		1

46	ISING SYSTEM IN OSCILLATING FIELD: HYSTERETIC RESPONSE 1995 , 107-148		1
45	Social inequality analysis of fiber bundle model statistics and prediction of materials failure. <i>Physical Review E</i> , 2021 , 104, 044308	2.4	1
44	Optimization and Quantum Annealing. <i>Texts and Readings in Physical Sciences</i> , 2011 , 251-277		1
43	Can economics afford not to become natural science?. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 3121-3125	2.3	1
42	Cooperative Dynamics in the Fiber Bundle Model. <i>Frontiers in Physics</i> , 2021 , 8,	3.9	1
41	Complexities of Social Networks: A Physicist's Perspective473-506		1
40	Zero-intelligence Models of Limit-order Markets35-63		1
39	The Contribution of Money-transfer Models to Economics191-217		1
38	Kinetic exchange income distribution models with saving propensities: inequality indices and self-organized poverty level.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20210163	3	1
37	International Center for Social Complexity, Econophysics and Sociophysics Studies: A Proposal. <i>New Economic Windows</i> , 2019 , 259-267	0.5	0
36	Near universal values of social inequality indices in self-organized critical models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022 , 596, 127121	3.3	0
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- 6 Analyzing money distributions in "ideal gas" models of markets **2006**, 333-338
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