

Soumyajyoti Biswas

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

693
citations

759233

12
h-index

580821

25
g-index

45
all docs

45
docs citations

45
times ranked

407
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical physics of fracture, friction, and earthquakes. <i>Reviews of Modern Physics</i> , 2012, 84, 839-884.	45.6	168
2	Disorder induced phase transition in kinetic models of opinion dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 3257-3265.	2.6	86
3	Mean-field solutions of kinetic-exchange opinion models. <i>Physical Review E</i> , 2011, 84, 056106.	2.1	41
4	Modes of failure in disordered solids. <i>Physical Review E</i> , 2017, 96, 063003.	2.1	29
5	Phase transitions and non-equilibrium relaxation in kinetic models of opinion formation. <i>Journal of Physics: Conference Series</i> , 2011, 297, 012004.	0.4	26
6	Nucleation versus percolation: Scaling criterion for failure in disordered solids. <i>Physical Review E</i> , 2015, 91, 050105.	2.1	25
7	Dynamical percolation transition in the Ising model studied using a pulsed magnetic field. <i>Physical Review E</i> , 2011, 83, 021109.	2.1	22
8	Prediction of creep failure time using machine learning. <i>Scientific Reports</i> , 2020, 10, 16910.	3.3	22
9	Continuous transition of social efficiencies in the stochastic-strategy minority game. <i>Physical Review E</i> , 2012, 85, 031104.	2.1	21
10	Critical noise can make the minority candidate win: The U.S. presidential election cases. <i>Physical Review E</i> , 2017, 96, 032303.	2.1	17
11	Drying and percolation in correlated porous media. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	16
12	Failure processes of cemented granular materials. <i>Physical Review E</i> , 2020, 102, 052903.	2.1	14
13	Self-organized dynamics in local load-sharing fiber bundle models. <i>Physical Review E</i> , 2013, 88, 042112.	2.1	13
14	Maximizing the Strength of Fiber Bundles under Uniform Loading. <i>Physical Review Letters</i> , 2015, 115, 155501.	7.8	12
15	Long route to consensus: Two-stage coarsening in a binary choice voting model. <i>Physical Review E</i> , 2020, 102, 012316.	2.1	12
16	Near universal values of social inequality indices in self-organized critical models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 596, 127121.	2.6	12
17	Crossover behaviors in one and two dimensional heterogeneous load sharing fiber bundle models. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	11
18	Load dependence of power outage statistics. <i>Europhysics Letters</i> , 2019, 126, 44002.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Interface propagation in fiber bundles: local, mean-field and intermediate range-dependent statistics. <i>New Journal of Physics</i> , 2016, 18, 103048.	2.9	9
20	Cooperative Dynamics in the Fiber Bundle Model. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	8
21	Social inequality analysis of fiber bundle model statistics and prediction of materials failure. <i>Physical Review E</i> , 2021, 104, 044308.	2.1	7
22	Equivalence of the train model of earthquake and boundary driven Edwards-Wilkinson interface. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	6
23	Avalanche dynamics in hierarchical fiber bundles. <i>Physical Review E</i> , 2019, 100, 022133.	2.1	6
24	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.	2.1	6
25	Size Distribution of Emitted Energies in Local Load Sharing Fiber Bundles. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	6
26	Parallel Minority Game and its application in movement optimization during an epidemic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 561, 125271.	2.6	5
27	Failure time in heterogeneous systems. <i>Physical Review Research</i> , 2019, 1, .	3.6	5
28	Block size dependence of coarse graining in discrete opinion dynamics model: Application to the US presidential elections. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 566, 125639.	2.6	4
29	Kinetic Exchange Opinion Model: Solution in the Single Parameter Map Limit. <i>New Economic Windows</i> , 2014, , 131-143.	1.0	4
30	Effect of fractal disorder on static friction in the Tomlinson model. <i>Physical Review E</i> , 2010, 82, 041124.	2.1	3
31	Mapping heterogeneities through avalanche statistics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170388.	3.4	3
32	Optimization strategies of human mobility during the COVID-19 pandemic: A review. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 7965-7978.	1.9	3
33	Correlation Between Avalanches and Emitted Energies During Fracture With a Variable Stress Release Range. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	3
34	Opinion dynamics: public and private. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210169.	3.4	3
35	Statistical physics of fracture and earthquakes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180202.	3.4	2
36	The Ising universality class of kinetic exchange models of opinion dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 567, 125692.	2.6	2

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37	Kolkata Paise Restaurant Problem: An Introduction. <i>New Economic Windows</i> , 2013, , 173-200.	1.0	2
38	Income and Wealth Distributions from Stochastic Strategy Minority Game. <i>Reports in Advances of Physical Sciences</i> , 2017, 01, 1740003.	0.2	1
39	Are Socio-Econo-Physical Models Better to Explain Biases in Societies?. <i>Reports in Advances of Physical Sciences</i> , 2018, 02, 1850006.	0.2	1
40	Effect of localized loading on failure threshold of fiber bundles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 1087-1094.	2.6	1
41	Record-breaking statistics near second-order phase transitions. <i>Physical Review E</i> , 2018, 98, 022103.	2.1	1
42	Machine learning predictions of COVID-19 second wave end-times in Indian states. <i>Indian Journal of Physics</i> , 2022, 96, 2547-2555.	1.8	1
43	Kinetic exchange models of societies and economies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210170.	3.4	1