Soumyajyoti Biswas

List of Publications by Year
in descending order

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43	693	759233 12	580821 25
papers	citations	h-index	g-index

45	45	45	407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Machine learning predictions of COVID-19 second wave end-times in Indian states. Indian Journal of Physics, 2022, 96, 2547-2555.	1.8	1
2	Correlation Between Avalanches and Emitted Energies During Fracture With a Variable Stress Release Range. Frontiers in Physics, 2022, 10, .	2.1	3
3	Near universal values of social inequality indices in self-organized critical models. Physica A: Statistical Mechanics and Its Applications, 2022, 596, 127121.	2.6	12
4	Kinetic exchange models of societies and economies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210170.	3.4	1
5	Opinion dynamics: public and private. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210169.	3.4	3
6	Parallel Minority Game and itâ€™s application in movement optimization during an epidemic. Physica A: Statistical Mechanics and Its Applications, 2021, 561, 125271.	2.6	5
7	Block size dependence of coarse graining in discrete opinion dynamics model: Application to the US presidential elections. Physica A: Statistical Mechanics and Its Applications, 2021, 566, 125639.	2.6	4
8	Optimization strategies of human mobility during the COVID-19 pandemic: A review. Mathematical Biosciences and Engineering, 2021, 18, 7965-7978.	1.9	3
9	Cooperative Dynamics in the Fiber Bundle Model. Frontiers in Physics, 2021, 8, .	2.1	8
10	Size Distribution of Emitted Energies in Local Load Sharing Fiber Bundles. Frontiers in Physics, 2021, 9, .	2.1	6
11	The Ising universality class of kinetic exchange models of opinion dynamics. Physica A: Statistical Mechanics and Its Applications, 2021, 567, 125692.	2.6	2
12	Social inequality analysis of fiber bundle model statistics and prediction of materials failure. Physical Review E, 2021, 104, 044308.	2.1	7
13	Long route to consensus: Two-stage coarsening in a binary choice voting model. Physical Review E, 2020, 102, 012316.	2.1	12
14	Prediction of creep failure time using machine learning. Scientific Reports, 2020, 10, 16910.	3.3	22
15	Failure processes of cemented granular materials. Physical Review E, 2020, 102, 052903.	2.1	14
16	Flory-like statistics of fracture in the fiber bundle model as obtained via Kolmogorov dispersion for turbulence: A conjecture. Physical Review E, 2020, 102, 012113.	2.1	6
17	Load dependence of power outage statistics. Europhysics Letters, 2019, 126, 44002.	2.0	11
18	Avalanche dynamics in hierarchical fiber bundles. Physical Review E, 2019, 100, 022133.	2.1	6

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19	Mapping heterogeneities through avalanche statistics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20170388.	3.4	3
20	Statistical physics of fracture and earthquakes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180202.	3.4	2
21	Failure time in heterogeneous systems. Physical Review Research, 2019, 1, .	3.6	5
22	Are Socio-Econo-Physical Models Better to Explain Biases in Societies?. Reports in Advances of Physical Sciences, 2018, 02, 1850006.	0.2	1
23	Effect of localized loading on failure threshold of fiber bundles. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 1087-1094.	2.6	1
24	Record-breaking statistics near second-order phase transitions. Physical Review E, 2018, 98, 022103.	2.1	1
25	Drying and percolation in correlated porous media. Physical Review Fluids, 2018, 3, .	2.5	16
26	Critical noise can make the minority candidate win: The U.S. presidential election cases. Physical Review E, 2017, 96, 032303.	2.1	17
27	Income and Wealth Distributions from Stochastic Strategy Minority Game. Reports in Advances of Physical Sciences, 2017, 01, 1740003.	0.2	1
28	Modes of failure in disordered solids. Physical Review E, 2017, 96, 063003.	2.1	29
29	Interface propagation in fiber bundles: local, mean-field and intermediate range-dependent statistics. New Journal of Physics, 2016, 18, 103048.	2.9	9
30	Nucleation versus percolation: Scaling criterion for failure in disordered solids. Physical Review E, 2015, 91, 050105.	2.1	25
31	Maximizing the Strength of Fiber Bundles under Uniform Loading. Physical Review Letters, 2015, 115, 155501.	7.8	12
32	Kinetic Exchange Opinion Model: Solution in the Single Parameter Map Limit. New Economic Windows, 2014, , 131-143.	1.0	4
33	Self-organized dynamics in local load-sharing fiber bundle models. Physical Review E, 2013, 88, 042112.	2.1	13
34	Equivalence of the train model of earthquake and boundary driven Edwards-Wilkinson interface. European Physical Journal B, 2013, 86, 1.	1.5	6
35	Crossover behaviors in one and two dimensional heterogeneous load sharing fiber bundle models. European Physical Journal B, 2013, 86, 1.	1.5	11
36	Kolkata Paise Restaurant Problem: An Introduction. New Economic Windows, 2013, , 173-200.	1.0	2

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37	Continuous transition of social efficiencies in the stochastic-strategy minority game. Physical Review E, 2012, 85, 031104.	2.1	21
38	Statistical physics of fracture, friction, and earthquakes. Reviews of Modern Physics, 2012, 84, 839-884.	45.6	168
39	Disorder induced phase transition in kinetic models of opinion dynamics. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3257-3265.	2.6	86
40	Phase transitions and non-equilibrium relaxation in kinetic models of opinion formation. Journal of Physics: Conference Series, 2011, 297, 012004.	0.4	26
41	Mean-field solutions of kinetic-exchange opinion models. Physical Review E, 2011, 84, 056106.	2.1	41
42	Dynamical percolation transition in the Ising model studied using a pulsed magnetic field. Physical Review E, 2011, 83, 021109.	2.1	22
43	Effect of fractal disorder on static friction in the Tomlinson model. Physical Review E, 2010, 82, 041124.	2.1	3