Kim Christensen

List of Publications by Year
in descending order

62	4,559	236833 25	143943 57
papers	citations	h-index	g-index

63	63	63	2700
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identifying locations susceptible to micro-anatomical reentry using a spatial network representation of atrial fibre maps. PLoS ONE, 2022, 17, e0267166.	1.1	0
2	Animal intermittent locomotion: A null model for the probability of moving forward in bounded space. Journal of Theoretical Biology, 2021, 510, 110533.	0.8	5
3	Reconstructing the Intrinsic Statistical Properties of Intermittent Locomotion Through Corrections for Boundary Effects. Bulletin of Mathematical Biology, 2021, 83, 28.	0.9	1
4	Higher-order temporal network effects through triplet evolution. Scientific Reports, 2021, 11, 15419.	1.6	1
5	Understanding the transition from paroxysmal to persistent atrial fibrillation. Physical Review Research, 2020, 2, 023311.	1.3	3
6	Identifying time dependence in network growth. Physical Review Research, 2020, 2, .	1.3	9
7	How the network properties of shareholders vary with investor type and country. PLoS ONE, 2019, 14, e0220965.	1.1	3
8	Simulation of fingering behavior in smoldering combustion using a cellular automaton. Physical Review E, 2019, 99, 023314.	0.8	3
9	Digging the optimum pit: antlions, spirals and spontaneous stratification. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190365.	1.2	28
10	Unified mechanism of local drivers in a percolation model of atrial fibrillation. Physical Review E, 2019, 100, 062406.	0.8	8
11	Identifying Potential Re-entrant Circuit Locations from Atrial Fibre Maps. , 2019, 2019, 1-4.		4
12	Correlations and hyperuniformity in the avalanche size of the Oslo model. Europhysics Letters, 2018, 122, 50003.	0.7	11
13	Machine learning methods for locating re-entrant drivers from electrograms in a model of atrial fibrillation. Royal Society Open Science, 2018, 5, 172434.	1.1	23
14	Two-dimensional model of smouldering combustion using multi-layer cellular automaton: The role of ignition location and direction of airflow. Fire Safety Journal, 2017, 91, 243-251.	1.4	14
15	Myocardial architecture and patient variability in clinical patterns of atrial fibrillation. Physical Review E, 2016, 94, 042401.	0.8	13
16	Generalised Sandpile Dynamics on Artificial and Real-World Directed Networks. PLoS ONE, 2015, 10, e0142685.	1.1	9
17	Simple Model for Identifying Critical Regions in Atrial Fibrillation. Physical Review Letters, 2015, 114, 028104-28104.	2.9	33
18	Universality in ant behaviour. Journal of the Royal Society Interface, 2015, 12, 20140985.	1.5	12

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19	Quantitative projections of a quality measure: Performance of a complex task. Physica A: Statistical Mechanics and Its Applications, 2014, 415, 503-513.	1.2	0
20	Local interactions over global broadcasts for improved task allocation in self-organized multi-robot systems. Robotics and Autonomous Systems, 2014, 62, 1453-1462.	3.0	22
21	Self-similar correlation function in brain resting-state functional magnetic resonance imaging. Journal of the Royal Society Interface, 2011, 8, 472-479.	1.5	130
22	Ants in a Labyrinth: A Statistical Mechanics Approach to the Division of Labour. PLoS ONE, 2011, 6, e18416.	1.1	20
23	Record Dynamics in Ants. PLoS ONE, 2010, 5, e9621.	1.1	16
24	Hierarchical coarse-graining transform. Physical Review E, 2009, 79, 036704.	0.8	2
25	Division of labour in ant colonies in terms of attractive fields. Ecological Complexity, 2009, 6, 396-402.	1.4	15
26	Wavelet-based upscaling of advection equations. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4760-4770.	1.2	3
27	On the scaling of probability density functions with apparent power-law exponents less than unity. European Physical Journal B, 2008, 62, 331-336.	0.6	21
28	Multiscaling in the sequence of areas enclosed by coalescing random walkers. New Journal of Physics, 2007, 9, 149-149.	1.2	6
29	Permeability up-scaling using Haar Wavelets. Transport in Porous Media, 2007, 67, 395-412.	1.2	11
30	Comment on â€œEarthquakes Descaled: On Waiting Time Distributions and Scaling Lawsâ€• Physical Review Letters, 2006, 96, 109801; author reply 109802.	2.9	37
31	Rain viewed as relaxational events. Journal of Hydrology, 2006, 328, 46-55.	2.3	44
32	Evolving networks through deletion and duplication. New Journal of Physics, 2006, 8, 212-212.	1.2	23
33	Universality class of one-dimensional directed sandpile models. Physical Review E, 2005, 72, 066103.	0.8	3
34	Complexity and Criticality. Imperial College Press Advanced Physics Text, 2005, , .	0.2	316
35	Avalanche behavior in an absorbing state Oslo model. Physical Review E, 2004, 70, 067101.	0.8	10
36	Sensitivity to Initial Conditions in Self-Organized Critical Systems. Journal of Statistical Physics, 2004, 117, 891-900.	0.5	1

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37	On self-organised criticality in one dimension. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 527-534.	1.2	10
38	The tangled nature model as an evolving quasi-species model. Journal of Physics A, 2003, 36, 883-891.	1.6	40
39	Time-dependent extinction rate and species abundance in a tangled-nature model of biological evolution. Physical Review E, 2002, 66, 011904.	0.8	76
40	Unified Scaling Law for Earthquakes. Physical Review Letters, 2002, 88, 178501.	2.9	577
41	Rain: Relaxations in the sky. Physical Review E, 2002, 66, 036120.	0.8	73
42	Tangled Nature: A Model of Evolutionary Ecology. Journal of Theoretical Biology, 2002, 216, 73-84.	0.8	126
43	A Complexity View of Rainfall. Physical Review Letters, 2001, 88, 018701.	2.9	166
44	Comment on â€œSelf-Organized Criticality in the Olami-Feder-Christensen Modelâ€• Physical Review Letters, 2001, 87, 039801.	2.9	25
45	On the physical relevance of extremal dynamics. Europhysics Letters, 2000, 50, 162-168.	0.7	9
46	Surface Fluctuations and Correlations in a Pile of Rice. Physical Review Letters, 1999, 83, 764-767.	2.9	20
47	Evolution of Random Networks. Physical Review Letters, 1998, 81, 2380-2383.	2.9	65
48	Avalanches in Piles of Rice. , 1998, , 475-480.		0
49	Avalanche dynamics in a pile of rice. Nature, 1996, 379, 49-52.	13.7	418
50	ON SELF-ORGANIZED CRITICALITY AND SYNCHRONIZATION IN LATTICE MODELS OF COUPLED DYNAMICAL SYSTEMS. International Journal of Modern Physics B, 1996, 10, 1111-1151.	1.0	52
51	Tracer Dispersion in a Self-Organized Critical System. Physical Review Letters, 1996, 77, 107-110.	2.9	178
52	Sandpile models with and without an underlying spatial structure. Physical Review E, 1993, 48, 3361-3372.	0.8	101
53	Self-organized critical forest-fire model: Mean-field theory and simulation results in 1 to 6 dimenisons. Physical Review Letters, 1993, 71, 2737-2740.	2.9	92
54	Christensen replies. Physical Review Letters, 1993, 71, 1289-1289.	2.9	12

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55	Temporal correlations, universality, and multifractality in a spring-block model of earthquakes. Physical Review A, 1992, 46, R1720-R1723.	1.0	45
56	Deterministic 1/fnoise in nonconserative models of self-organized criticality. Physical Review Letters, 1992, 68, 2417-2420.	2.9	88
57	Variation of the Gutenbergâ€Richter <i>b</i> values and nontrivial temporal correlations in a Springâ€Block Model for earthquakes. Journal of Geophysical Research, 1992, 97, 8729-8735.	3.3	126
58	Scaling, phase transitions, and nonuniversality in a self-organized critical cellular-automaton model. Physical Review A, 1992, 46, 1829-1838.	1.0	169
59	Self-organized criticality in a continuous, nonconservative cellular automaton modeling earthquakes. Physical Review Letters, 1992, 68, 1244-1247.	2.9	960
60	Dynamical and spatial aspects of sandpile cellular automata. Journal of Statistical Physics, 1991, 63, 653-684.	0.5	82
61	1/fnoise, distribution of lifetimes, and a pile of sand. Physical Review B, 1989, 40, 7425-7427.	1.1	184
62	Self-Organized Criticality: Consequences for Statistics and Predictability of Earthquakes. Geophysical Monograph Series, 0, , 69-74.	0.1	5