

# Kim Christensen

## List of Publications by Year in descending order

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62  
papers

4,559  
citations

236833

25  
h-index

143943

57  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2700  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-organized criticality in a continuous, nonconservative cellular automaton modeling earthquakes. <i>Physical Review Letters</i> , 1992, 68, 1244-1247.	2.9	960
2	Unified Scaling Law for Earthquakes. <i>Physical Review Letters</i> , 2002, 88, 178501.	2.9	577
3	Avalanche dynamics in a pile of rice. <i>Nature</i> , 1996, 379, 49-52.	13.7	418
4	Complexity and Criticality. Imperial College Press Advanced Physics Text, 2005, , .	0.2	316
5	$1/f$ noise, distribution of lifetimes, and a pile of sand. <i>Physical Review B</i> , 1989, 40, 7425-7427.	1.1	184
6	Tracer Dispersion in a Self-Organized Critical System. <i>Physical Review Letters</i> , 1996, 77, 107-110.	2.9	178
7	Scaling, phase transitions, and nonuniversality in a self-organized critical cellular-automaton model. <i>Physical Review A</i> , 1992, 46, 1829-1838.	1.0	169
8	A Complexity View of Rainfall. <i>Physical Review Letters</i> , 2001, 88, 018701.	2.9	166
9	Self-similar correlation function in brain resting-state functional magnetic resonance imaging. <i>Journal of the Royal Society Interface</i> , 2011, 8, 472-479.	1.5	130
10	Variation of the Gutenberg-Richter $b$ values and nontrivial temporal correlations in a Spring-Block Model for earthquakes. <i>Journal of Geophysical Research</i> , 1992, 97, 8729-8735.	3.3	126
11	Tangled Nature: A Model of Evolutionary Ecology. <i>Journal of Theoretical Biology</i> , 2002, 216, 73-84.	0.8	126
12	Sandpile models with and without an underlying spatial structure. <i>Physical Review E</i> , 1993, 48, 3361-3372.	0.8	101
13	Self-organized critical forest-fire model: Mean-field theory and simulation results in 1 to 6 dimensions. <i>Physical Review Letters</i> , 1993, 71, 2737-2740.	2.9	92
14	Deterministic $1/f$ noise in nonconservative models of self-organized criticality. <i>Physical Review Letters</i> , 1992, 68, 2417-2420.	2.9	88
15	Dynamical and spatial aspects of sandpile cellular automata. <i>Journal of Statistical Physics</i> , 1991, 63, 653-684.	0.5	82
16	Time-dependent extinction rate and species abundance in a tangled-nature model of biological evolution. <i>Physical Review E</i> , 2002, 66, 011904.	0.8	76
17	Rain: Relaxations in the sky. <i>Physical Review E</i> , 2002, 66, 036120.	0.8	73
18	Evolution of Random Networks. <i>Physical Review Letters</i> , 1998, 81, 2380-2383.	2.9	65

#	ARTICLE	IF	CITATIONS
19	ON SELF-ORGANIZED CRITICALITY AND SYNCHRONIZATION IN LATTICE MODELS OF COUPLED DYNAMICAL SYSTEMS. <i>International Journal of Modern Physics B</i> , 1996, 10, 1111-1151.	1.0	52
20	Temporal correlations, universality, and multifractality in a spring-block model of earthquakes. <i>Physical Review A</i> , 1992, 46, R1720-R1723.	1.0	45
21	Rain viewed as relaxational events. <i>Journal of Hydrology</i> , 2006, 328, 46-55.	2.3	44
22	The tangled nature model as an evolving quasi-species model. <i>Journal of Physics A</i> , 2003, 36, 883-891.	1.6	40
23	Comment on "Earthquakes Descaled: On Waiting Time Distributions and Scaling Laws". <i>Physical Review Letters</i> , 2006, 96, 109801; author reply 109802.	2.9	37
24	Simple Model for Identifying Critical Regions in Atrial Fibrillation. <i>Physical Review Letters</i> , 2015, 114, 028104-28104.	2.9	33
25	Digging the optimum pit: antlions, spirals and spontaneous stratification. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190365.	1.2	28
26	Comment on "Self-Organized Criticality in the Olami-Feder-Christensen Model". <i>Physical Review Letters</i> , 2001, 87, 039801.	2.9	25
27	Evolving networks through deletion and duplication. <i>New Journal of Physics</i> , 2006, 8, 212-212.	1.2	23
28	Machine learning methods for locating re-entrant drivers from electrograms in a model of atrial fibrillation. <i>Royal Society Open Science</i> , 2018, 5, 172434.	1.1	23
29	Local interactions over global broadcasts for improved task allocation in self-organized multi-robot systems. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1453-1462.	3.0	22
30	On the scaling of probability density functions with apparent power-law exponents less than unity. <i>European Physical Journal B</i> , 2008, 62, 331-336.	0.6	21
31	Surface Fluctuations and Correlations in a Pile of Rice. <i>Physical Review Letters</i> , 1999, 83, 764-767.	2.9	20
32	Ants in a Labyrinth: A Statistical Mechanics Approach to the Division of Labour. <i>PLoS ONE</i> , 2011, 6, e18416.	1.1	20
33	Record Dynamics in Ants. <i>PLoS ONE</i> , 2010, 5, e9621.	1.1	16
34	Division of labour in ant colonies in terms of attractive fields. <i>Ecological Complexity</i> , 2009, 6, 396-402.	1.4	15
35	Two-dimensional model of smouldering combustion using multi-layer cellular automaton: The role of ignition location and direction of airflow. <i>Fire Safety Journal</i> , 2017, 91, 243-251.	1.4	14
36	Myocardial architecture and patient variability in clinical patterns of atrial fibrillation. <i>Physical Review E</i> , 2016, 94, 042401.	0.8	13

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37	Christensen replies. <i>Physical Review Letters</i> , 1993, 71, 1289-1289.	2.9	12
38	Universality in ant behaviour. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140985.	1.5	12
39	Permeability up-scaling using Haar Wavelets. <i>Transport in Porous Media</i> , 2007, 67, 395-412.	1.2	11
40	Correlations and hyperuniformity in the avalanche size of the Oslo model. <i>Europhysics Letters</i> , 2018, 122, 50003.	0.7	11
41	Avalanche behavior in an absorbing state Oslo model. <i>Physical Review E</i> , 2004, 70, 067101.	0.8	10
42	On self-organised criticality in one dimension. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 527-534.	1.2	10
43	On the physical relevance of extremal dynamics. <i>Europhysics Letters</i> , 2000, 50, 162-168.	0.7	9
44	Generalised Sandpile Dynamics on Artificial and Real-World Directed Networks. <i>PLoS ONE</i> , 2015, 10, e0142685.	1.1	9
45	Identifying time dependence in network growth. <i>Physical Review Research</i> , 2020, 2, .	1.3	9
46	Unified mechanism of local drivers in a percolation model of atrial fibrillation. <i>Physical Review E</i> , 2019, 100, 062406.	0.8	8
47	Multiscaling in the sequence of areas enclosed by coalescing random walkers. <i>New Journal of Physics</i> , 2007, 9, 149-149.	1.2	6
48	Self-Organized Criticality: Consequences for Statistics and Predictability of Earthquakes. <i>Geophysical Monograph Series</i> , 0, , 69-74.	0.1	5
49	Animal intermittent locomotion: A null model for the probability of moving forward in bounded space. <i>Journal of Theoretical Biology</i> , 2021, 510, 110533.	0.8	5
50	Identifying Potential Re-entrant Circuit Locations from Atrial Fibre Maps. , 2019, 2019, 1-4.		4
51	Universality class of one-dimensional directed sandpile models. <i>Physical Review E</i> , 2005, 72, 066103.	0.8	3
52	Wavelet-based upscaling of advection equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 4760-4770.	1.2	3
53	How the network properties of shareholders vary with investor type and country. <i>PLoS ONE</i> , 2019, 14, e0220965.	1.1	3
54	Simulation of fingering behavior in smoldering combustion using a cellular automaton. <i>Physical Review E</i> , 2019, 99, 023314.	0.8	3

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55	Understanding the transition from paroxysmal to persistent atrial fibrillation. <i>Physical Review Research</i> , 2020, 2, 023311.	1.3	3
56	Hierarchical coarse-graining transform. <i>Physical Review E</i> , 2009, 79, 036704.	0.8	2
57	Sensitivity to Initial Conditions in Self-Organized Critical Systems. <i>Journal of Statistical Physics</i> , 2004, 117, 891-900.	0.5	1
58	Reconstructing the Intrinsic Statistical Properties of Intermittent Locomotion Through Corrections for Boundary Effects. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 28.	0.9	1
59	Higher-order temporal network effects through triplet evolution. <i>Scientific Reports</i> , 2021, 11, 15419.	1.6	1
60	Quantitative projections of a quality measure: Performance of a complex task. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 415, 503-513.	1.2	0
61	Avalanches in Piles of Rice. , 1998, , 475-480.		0
62	Identifying locations susceptible to micro-anatomical reentry using a spatial network representation of atrial fibre maps. <i>PLoS ONE</i> , 2022, 17, e0267166.	1.1	0