

Lucilla De Arcangelis

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2034840/lucilla-de-arcangelis-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

116
papers

3,620
citations

32
h-index

56
g-index

122
ext. papers

3,986
ext. citations

3.7
avg, IF

5.33
L-index

#	Paper	IF	Citations
116	Role of anaxonic local neurons in the crossover to continuously varying exponents for avalanche activity. <i>Physical Review E</i> , 2021 , 103, 042402	2.4	2
115	Role of inhibitory neurons in temporal correlations of critical and supercritical spontaneous activity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 565, 125555	3.3	3
114	Critical behaviour of the stochastic Wilson-Cowan model. <i>PLoS Computational Biology</i> , 2021 , 17, e1008884		2
113	Long-range temporal correlations in the broadband resting state activity of the human brain revealed by neuronal avalanches. <i>Neurocomputing</i> , 2021 , 461, 657-666	5.4	1
112	Predicting brain evoked response to external stimuli from temporal correlations of spontaneous activity. <i>Physical Review Research</i> , 2020 , 2,	3.9	10
111	Pattern recognition with neuronal avalanche dynamics. <i>Physical Review E</i> , 2019 , 99, 010302	2.4	7
110	The Relevance of Foreshocks in Earthquake Triggering: A Statistical Study. <i>Entropy</i> , 2019 , 21,	2.8	11
109	Three cooperative mechanisms required for recovery after brain damage. <i>Scientific Reports</i> , 2019 , 9, 15858	4.9	4
108	Critical Bursts in Filtration. <i>Physical Review Letters</i> , 2018 , 120, 034503	7.4	8
107	Synchronized oscillations and acoustic fluidization in confined granular materials. <i>Physical Review E</i> , 2018 , 97, 010901	2.4	2
106	Controlled Viscosity in Dense Granular Materials. <i>Physical Review Letters</i> , 2018 , 120, 138001	7.4	8
105	Critical neural networks with short- and long-term plasticity. <i>Physical Review E</i> , 2018 , 97, 032312	2.4	12
104	The Overlap of Aftershock Coda Waves and Short-Term Postseismic Forecasting. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 5661-5674	3.6	18
103	Induced and endogenous acoustic oscillations in granular faults. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 377,	3	4
102	Statistical Features of Foreshocks in Instrumental and ETAS Catalogs. <i>Pure and Applied Geophysics</i> , 2017 , 174, 1679-1697	2.2	13
101	Balance of excitation and inhibition determines 1/f power spectrum in neuronal networks. <i>Chaos</i> , 2017 , 27, 047402	3.3	41
100	Spatial features of synaptic adaptation affecting learning performance. <i>Scientific Reports</i> , 2017 , 7, 110164.9		6

99	Rattler-induced aging dynamics in jammed granular systems. <i>Soft Matter</i> , 2017 , 13, 9132-9137	3.6	6
98	Molecular dynamics simulations of incipient carbonaceous nanoparticle formation at flame conditions. <i>Combustion Theory and Modelling</i> , 2017 , 21, 49-61	1.5	11
97	Synaptic plasticity and neuronal refractory time cause scaling behaviour of neuronal avalanches. <i>Scientific Reports</i> , 2016 , 6, 32071	4.9	20
96	Temporal correlations in neuronal avalanche occurrence. <i>Scientific Reports</i> , 2016 , 6, 24690	4.9	25
95	Statistical physics approach to earthquake occurrence and forecasting. <i>Physics Reports</i> , 2016 , 628, 1-91	27.7	103
94	Dynamic Weakening by Acoustic Fluidization during Stick-Slip Motion. <i>Physical Review Letters</i> , 2015 , 115, 128001	7.4	20
93	Mechanical origin of aftershocks. <i>Scientific Reports</i> , 2015 , 5, 15560	4.9	24
92	Optimal percentage of inhibitory synapses in multi-task learning. <i>Scientific Reports</i> , 2015 , 5, 9895	4.9	21
91	Criticality as a signature of healthy neural systems. <i>Frontiers in Systems Neuroscience</i> , 2015 , 9, 22	3.5	59
90	Modelling the influence of photospheric turbulence on solar flare statistics. <i>Nature Communications</i> , 2014 , 5, 5035	17.4	12
89	Brain modularity controls the critical behavior of spontaneous activity. <i>Scientific Reports</i> , 2014 , 4, 4312	4.9	19
88	Non-monotonic dependence of the friction coefficient on heterogeneous stiffness. <i>Scientific Reports</i> , 2014 , 4, 6772	4.9	4
87	On the temporal organization of neuronal avalanches. <i>Frontiers in Systems Neuroscience</i> , 2014 , 8, 204	3.5	33
86	Temporal organization of ongoing brain activity. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 2119-2130	2.3	5
85	Variability of the b value in the Gutenberg-Bichter distribution. <i>Geophysical Journal International</i> , 2014 , 199, 1765-1771	2.6	22
84	Criticality in the brain. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P03026	1.9	20
83	Gelation kinetics of crosslinked gelatin. <i>Polymer Composites</i> , 2013 , 34, 259-264	3	2
82	Magnitude correlations in the Olami-Feder-Christensen model. <i>Europhysics Letters</i> , 2013 , 102, 59002	1.6	8

81	Are dragon-king neuronal avalanches dungeons for self-organized brain activity?. <i>European Physical Journal: Special Topics</i> , 2012 , 205, 243-257	2.3	24
80	The Role of Interstitial Impurities in the Frictional Instability of Seismic Fault Models. <i>Tribology Letters</i> , 2012 , 48, 89-94	2.8	4
79	Scaling behavior of the earthquake intertime distribution: influence of large shocks and time scales in the Omori law. <i>Physical Review E</i> , 2012 , 86, 066119	2.4	16
78	The earthquake magnitude is influenced by previous seismicity. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	40
77	Activity-dependent neuronal model on complex networks. <i>Frontiers in Physiology</i> , 2012 , 3, 62	4.6	30
76	Balance between excitation and inhibition controls the temporal organization of neuronal avalanches. <i>Physical Review Letters</i> , 2012 , 108, 228703	7.4	90
75	Spatial organization of foreshocks as a tool to forecast large earthquakes. <i>Scientific Reports</i> , 2012 , 2, 846	4.9	44
74	Comparison of branching models for seismicity and likelihood maximization through simulated annealing. <i>Journal of Geophysical Research</i> , 2011 , 116,		10
73	Interarrival times of message propagation on directed networks. <i>Physical Review E</i> , 2011 , 84, 026112	2.4	6
72	Neuronal avalanches and learning. <i>Journal of Physics: Conference Series</i> , 2011 , 297, 012001	0.3	2
71	Micromechanics and statistics of slipping events in a granular seismic fault model. <i>Journal of Physics: Conference Series</i> , 2011 , 319, 012001	0.3	1
70	Scale-free networks by preferential depletion. <i>Europhysics Letters</i> , 2011 , 95, 16005	1.6	14
69	Statistics of slipping event sizes in granular seismic fault models. <i>Europhysics Letters</i> , 2011 , 95, 54002	1.6	17
68	Modeling the topology of protein interaction networks. <i>Physical Review E</i> , 2011 , 84, 016112	2.4	7
67	Time-energy correlations in solar flare occurrence. <i>Astronomy and Astrophysics</i> , 2010 , 511, L2	5.1	10
66	Multiple-time scaling and universal behavior of the earthquake interevent time distribution. <i>Physical Review Letters</i> , 2010 , 104, 158501	7.4	40
65	Unjamming dynamics: the micromechanics of a seismic fault model. <i>Physical Review Letters</i> , 2010 , 104, 238001	7.4	34
64	Learning as a phenomenon occurring in a critical state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3977-81	11.5	110

63	Role of static stress diffusion in the spatiotemporal organization of aftershocks. <i>Physical Review Letters</i> , 2009 , 103, 038501	7.4	41
62	THE GENERALIZED OMORI LAW: MAGNITUDE INCOMPLETENESS OR MAGNITUDE CLUSTERING. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5597-5608	1.1	3
61	GRANULAR FAILURE: THE ORIGIN OF EARTHQUAKES?. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5374-5382	1.1	5
60	TIME, SPACE AND MAGNITUDE CORRELATIONS IN EARTHQUAKE OCCURRENCE. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5583-5596	1.1	6
59	Identification and spatiotemporal organization of aftershocks. <i>Journal of Geophysical Research</i> , 2009 , 114,		29
58	Influence of time and space correlations on earthquake magnitude. <i>Physical Review Letters</i> , 2008 , 100, 038501	7.4	76
57	Re-entrant phase diagram and pH effects in cross-linked gelatin gels. <i>Journal of Chemical Physics</i> , 2008 , 129, 134902	3.9	3
56	Correlations and Omori law in spamming. <i>Europhysics Letters</i> , 2008 , 84, 28004	1.6	8
55	Statistical properties and universality in earthquake and solar flare occurrence. <i>European Physical Journal B</i> , 2008 , 64, 551-555	1.2	9
54	Different triggering mechanisms for solar flares and coronal mass ejections. <i>Astronomy and Astrophysics</i> , 2008 , 488, L29-L32	5.1	11
53	Activity-dependent neural network model on scale-free networks. <i>Physical Review E</i> , 2007 , 76, 016107	2.4	57
52	Dynamical scaling and generalized Omori law. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	24
51	Dynamical scaling in branching models for seismicity. <i>Physical Review Letters</i> , 2007 , 98, 098501	7.4	62
50	Clusters in attractive colloids. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S2383-S2390	1.8	14
49	On-off intermittency in mean-field earthquake model. <i>Europhysics Letters</i> , 2006 , 76, 979-985	1.6	6
48	Kinetics of bond formation in cross-linked gelatin gels. <i>Journal of Chemical Physics</i> , 2006 , 125, 174903	3.9	11
47	Universality in solar flare and earthquake occurrence. <i>Physical Review Letters</i> , 2006 , 96, 051102	7.4	79
46	Self-organized criticality model for brain plasticity. <i>Physical Review Letters</i> , 2006 , 96, 028107	7.4	179

45	Complex viscosity behavior and cluster formation in attractive colloidal systems. <i>Physical Review E</i> , 2006 , 73, 020402	2.4	20
44	Dynamic response limits of an elastic magnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 836-838	2.8	1
43	Memory in self-organized criticality. <i>Europhysics Letters</i> , 2005 , 72, 678-684	1.6	25
42	Slow dynamics in gelation phenomena: from chemical gels to colloidal glasses. <i>Physical Review E</i> , 2004 , 69, 051103	2.4	63
41	Percolation, gelation and dynamical behaviour in colloids. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S4831-S4839	1.8	64
40	A unifying model for chemical and colloidal gels. <i>Europhysics Letters</i> , 2003 , 63, 1-7	1.6	46
39	Modeling the sol-gel transition. <i>Computing in Science and Engineering</i> , 2003 , 5, 78-87	1.5	2
38	Critical dynamics at the sol-gel transition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 304, 93-102	3.3	2
37	Self-organized criticality on small world networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 308, 545-549	3.3	41
36	Complex dynamics in gelling systems. <i>European Physical Journal E</i> , 2002 , 9, 277-82	1.5	10
35	Elastic critical behavior in a three-dimensional model for polymer gels. <i>Physical Review E</i> , 2002 , 65, 041803	3.4	23
34	Viscoelastic properties at the sol-gel transition. <i>Macromolecular Symposia</i> , 2001 , 171, 79-86	0.8	
33	Social percolation models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 277, 239-247	3.3	145
32	Viscosity critical behaviour at the gel point in a 3d lattice model. <i>European Physical Journal E</i> , 2000 , 2, 359	1.5	22
31	Elastic properties at the sol-gel transition. <i>Europhysics Letters</i> , 1999 , 46, 288-294	1.6	9
30	A percolation dynamic approach to the sol-gel transition. <i>Journal of Physics A</i> , 1998 , 31, 1901-1910		24
29	Statistical Models for Fracture. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1998 , 63-80	0.5	
28	Hydrodynamic interactions in deep bed filtration. <i>Physics of Fluids</i> , 1996 , 8, 6-14	4.4	25

27	DYNAMICS AND STRONG SIZE EFFECTS OF A BOOTSTRAP PERCOLATION PROBLEM. <i>International Journal of Modern Physics C</i> , 1996 , 07, 739-744	1.1	4
26	Model for surface cracking. <i>Physical Review B</i> , 1993 , 48, 3666-3676	3.3	41
25	Cluster formulation for frustrated spin models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993 , 192, 167-174	3.3	20
24	Time-dependent critical properties of Ising models by damage spreading. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993 , 196, 188-208	3.3	8
23	The phase diagram of Ising spin glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 1671-1672	2.8	
22	On the damage spreading in Ising spin glasses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991 , 178, 29-43	3.3	16
21	Fractal dimension of the red bonds in the Ising droplet. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991 , 173, 486-490	3.3	1
20	Comparative study of damage spreading in the Ising model using heat-bath, glauher, and metropolis dynamics. <i>Journal of Statistical Physics</i> , 1990 , 59, 1043-1050	1.5	37
19	Deterministic Growth of Diffusion-Limited Aggregation with Quenched Disorder. <i>Europhysics Letters</i> , 1990 , 13, 341-347	1.6	14
18	The Ising Spin Glass and Phase Space Geometry. <i>Europhysics Letters</i> , 1990 , 13, 587-592	1.6	15
17	Scaling properties of the damage cloud in the 3D Ising model. <i>Journal of Physics A</i> , 1990 , 23, L265-L271		11
16	Scaling in Fracture. <i>NATO ASI Series Series B: Physics</i> , 1990 , 149-163		
15	Exact Relations Between Damage Spreading and Thermodynamical Properties. <i>Europhysics Letters</i> , 1989 , 8, 315-320	1.6	110
14	Scaling and multiscaling laws in random fuse networks. <i>Physical Review B</i> , 1989 , 39, 2678-2684	3.3	99
13	Scaling laws in fracture. <i>Physical Review B</i> , 1989 , 40, 877-880	3.3	124
12	Damage Spreading in Spin Glasses. <i>Europhysics Letters</i> , 1989 , 9, 749-754	1.6	43
11	Dynamical phase transition of spin glasses in a magnetic field. <i>Journal of Physics A</i> , 1989 , 22, 4659-4664		9
10	Fractal Shapes of Deterministic Cracks. <i>Europhysics Letters</i> , 1989 , 10, 147-152	1.6	64

9	Fractals and multifractals: Applications in physics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989 , 157, 21-30	3.3	18
8	Comment on "Information dimension in random-walk processes". <i>Physical Review Letters</i> , 1988 , 61, 2156-7.4		3
7	Electrical breakdown in a fuse network with random, continuously distributed breaking strengths. <i>Physical Review B</i> , 1988 , 37, 7625-7637	3.3	178
6	Regular versus irregular Laplacian growth: multifractal spectroscopy. <i>Journal of Physics A</i> , 1988 , 21, L15-L21		3
5	Multifractal structure of the incipient infinite percolating cluster. <i>Physical Review B</i> , 1987 , 36, 5631-5634.3.3		17
4	Period distribution for Kauffman cellular automata. <i>Journal De Physique</i> , 1987 , 48, 1881-1886		13
3	Multiscaling approach in random resistor and random superconducting networks. <i>Physical Review B</i> , 1986 , 34, 4656-4673	3.3	156
2	Hydrodynamic dispersion in network models of porous media. <i>Physical Review Letters</i> , 1986 , 57, 996-999.4		93
1	A random fuse model for breaking processes. <i>Journal De Physique (Paris), Lettres</i> , 1985 , 46, 585-590		313