

Claudio Castellano

List of Publications by Year in Descending Order

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

122
papers

10,360
citations

35
h-index

101
g-index

127
ext. papers

11,870
ext. citations

4.5
avg, IF

6.73
L-index

#	Paper	IF	Citations
122	Universality, criticality and complexity of information propagation in social media.. <i>Nature Communications</i> , 2022 , 13, 1308	17.4	0
121	Filter bubble effect in the multistate voter model.. <i>Chaos</i> , 2022 , 32, 043103	3.3	0
120	Sideward contact tracing and the control of epidemics in large gatherings.. <i>Journal of the Royal Society Interface</i> , 2022 , 19, 20220048	4.1	0
119	Effect of delayed awareness and fatigue on the efficacy of self-isolation in epidemic control. <i>Physical Review E</i> , 2021 , 104, 044316	2.4	2
118	Stochastic sampling effects favor manual over digital contact tracing. <i>Nature Communications</i> , 2021 , 12, 1919	17.4	2
117	Percolation theory of self-exciting temporal processes. <i>Physical Review E</i> , 2021 , 103, L020302	2.4	1
116	Influence of individual nodes for continuous-time susceptible-infected-susceptible dynamics on synthetic and real-world networks. <i>Physical Review E</i> , 2021 , 104, 014306	2.4	0
115	Competition between vaccination and disease spreading. <i>Physical Review E</i> , 2020 , 101, 062306	2.4	7
114	Small world in the real world: Long distance dispersal governs epidemic dynamics in agricultural landscapes. <i>Epidemics</i> , 2020 , 30, 100384	5.1	8
113	Message-passing theory for cooperative epidemics. <i>Chaos</i> , 2020 , 30, 023131	3.3	8
112	Cumulative Merging Percolation and the Epidemic Transition of the Susceptible-Infected-Susceptible Model in Networks. <i>Physical Review X</i> , 2020 , 10,	9.1	10
111	Influential spreaders for recurrent epidemics on networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
110	Classes of critical avalanche dynamics in complex networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
109	Emergence of polarization in a voter model with personalized information. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
108	Degree-ordered-percolation on uncorrelated networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020 , 2020, 113401	1.9	1
107	The localization of non-backtracking centrality in networks and its physical consequences. <i>Scientific Reports</i> , 2020 , 10, 21639	4.9	6
106	Systematic comparison between methods for the detection of influential spreaders in complex networks. <i>Scientific Reports</i> , 2019 , 9, 15095	4.9	22

105	Effect of network clustering on mutually cooperative coinfections. <i>Physical Review E</i> , 2019 , 99, 022301	2.4	9
104	Spectral properties and the accuracy of mean-field approaches for epidemics on correlated power-law networks. <i>Physical Review Research</i> , 2019 , 1,	3.9	18
103	Rapid decay in the relative efficiency of quarantine to halt epidemics in networks. <i>Physical Review E</i> , 2018 , 97, 022308	2.4	6
102	Eigenvector Localization in Real Networks and Its Implications for Epidemic Spreading. <i>Journal of Statistical Physics</i> , 2018 , 173, 1110-1123	1.5	27
101	Uncertainty Reduction for Stochastic Processes on Complex Networks. <i>Physical Review Letters</i> , 2018 , 120, 198301	7.4	6
100	Analytical study of quality-biased competition dynamics for memes in social media. <i>Europhysics Letters</i> , 2018 , 122, 28002	1.6	8
99	Relevance of backtracking paths in recurrent-state epidemic spreading on networks. <i>Physical Review E</i> , 2018 , 98,	2.4	10
98	Epidemic spreading and aging in temporal networks with memory. <i>Physical Review E</i> , 2018 , 98,	2.4	17
97	Fundamental difference between superblockers and superspreaders in networks. <i>Physical Review E</i> , 2017 , 95, 012318	2.4	32
96	Topological structure and the H index in complex networks. <i>Physical Review E</i> , 2017 , 95, 022301	2.4	17
95	Relating Topological Determinants of Complex Networks to Their Spectral Properties: Structural and Dynamical Effects. <i>Physical Review X</i> , 2017 , 7,	9.1	32
94	Mutually cooperative epidemics on power-law networks. <i>Physical Review E</i> , 2017 , 96, 022301	2.4	23
93	The regularity game: Investigating linguistic rule dynamics in a population of interacting agents. <i>Cognition</i> , 2017 , 159, 25-32	3.5	5
92	Beyond the locally treelike approximation for percolation on real networks. <i>Physical Review E</i> , 2016 , 93, 030302	2.4	40
91	Leveraging percolation theory to single out influential spreaders in networks. <i>Physical Review E</i> , 2016 , 93, 062314	2.4	43
90	On the numerical study of percolation and epidemic critical properties in networks. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	9
89	Consensus versus persistence of disagreement in opinion formation: the role of zealots. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016 , 2016, 033401	1.9	14
88	Distinct types of eigenvector localization in networks. <i>Scientific Reports</i> , 2016 , 6, 18847	4.9	63

87	General three-state model with biased population replacement: analytical solution and application to language dynamics. <i>Physical Review E</i> , 2015 , 91, 012808	2.4	12
86	Understanding the Scientific Enterprise: Citation Analysis, Data and Modeling 2015 , 135-151		2
85	Lifespan method as a tool to study criticality in absorbing-state phase transitions. <i>Physical Review E</i> , 2015 , 91, 052117	2.4	8
84	Epidemic processes in complex networks. <i>Reviews of Modern Physics</i> , 2015 , 87, 925-979	40.5	1761
83	Breaking of the site-bond percolation universality in networks. <i>Nature Communications</i> , 2015 , 6, 10196	17.4	44
82	The adoption of linguistic rules in native and non-native speakers: Evidence from a Wug task. <i>Journal of Memory and Language</i> , 2015 , 84, 205-223	3.8	11
81	Dynamics to equilibrium in network games: individual behavior and global response. <i>PLoS ONE</i> , 2015 , 10, e0120343	3.7	14
80	Interplay between media and social influence in the collective behavior of opinion dynamics. <i>Physical Review E</i> , 2015 , 92, 042815	2.4	14
79	Internal and external dynamics in language: evidence from verb regularity in a historical corpus of English. <i>PLoS ONE</i> , 2014 , 9, e102882	3.7	22
78	Theoretical Approaches to the Susceptible-Infected-Susceptible Dynamics on Complex Networks: Mean-Field Theories and Beyond. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014 , 133-145	0.3	1
77	Mean-Field Analysis of the q-Voter Model on Networks. <i>Journal of Statistical Physics</i> , 2013 , 151, 113-130	1.5	30
76	Quantitative evaluation of alternative field normalization procedures. <i>Journal of Informetrics</i> , 2013 , 7, 746-755	3.1	47
75	Nature of the epidemic threshold for the susceptible-infected-susceptible dynamics in networks. <i>Physical Review Letters</i> , 2013 , 111, 068701	7.4	182
74	Field-normalized impact factors (IFs): A comparison of rescaling and fractionally counted IFs. <i>Journal of the Association for Information Science and Technology</i> , 2013 , 64, 2299-2309		22
73	Analysis of bibliometric indicators for individual scholars in a large data set. <i>Scientometrics</i> , 2013 , 97, 627-637	3	30
72	Testing the fairness of citation indicators for comparison across scientific domains: The case of fractional citation counts. <i>Journal of Informetrics</i> , 2012 , 6, 121-130	3.1	63
71	Why Sirtes's claims () do not square with reality. <i>Journal of Informetrics</i> , 2012 , 6, 615-618	3.1	3
70	Social Influence and the Dynamics of Opinions: The Approach of Statistical Physics. <i>Managerial and Decision Economics</i> , 2012 , 33, 311-321	1.1	7

69	Universal and nonuniversal features of the generalized voter class for ordering dynamics in two dimensions. <i>Physical Review E</i> , 2012 , 86, 051123	2.4	10
68	Epidemic thresholds of the susceptible-infected-susceptible model on networks: a comparison of numerical and theoretical results. <i>Physical Review E</i> , 2012 , 86, 041125	2.4	163
67	Rare-region effects in the contact process on networks. <i>Physical Review E</i> , 2012 , 85, 066125	2.4	33
66	Physics peeks into the ballot box. <i>Physics Today</i> , 2012 , 65, 74-75	0.9	8
65	Competing activation mechanisms in epidemics on networks. <i>Scientific Reports</i> , 2012 , 2, 371	4.9	107
64	A reverse engineering approach to the suppression of citation biases reveals universal properties of citation distributions. <i>PLoS ONE</i> , 2012 , 7, e33833	3.7	62
63	Griffiths phases in the contact process on complex networks 2011 ,		2
62	Irrelevance of information outflow in opinion dynamics models. <i>Physical Review E</i> , 2011 , 83, 016113	2.4	20
61	Rescaling citations of publications in physics. <i>Physical Review E</i> , 2011 , 83, 046116	2.4	65
60	Quasistationary simulations of the contact process on quenched networks. <i>Physical Review E</i> , 2011 , 84, 066102	2.4	42
59	Voter models on weighted networks. <i>Physical Review E</i> , 2011 , 83, 066117	2.4	36
58	Thresholds for epidemic spreading in networks. <i>Physical Review Letters</i> , 2010 , 105, 218701	7.4	435
57	Griffiths phases on complex networks. <i>Physical Review Letters</i> , 2010 , 105, 128701	7.4	101
56	Langevin approach for the dynamics of the contact process on annealed scale-free networks. <i>Physical Review E</i> , 2009 , 79, 036110	2.4	80
55	Coevolution of Glauber-like Ising dynamics and topology. <i>Physical Review E</i> , 2009 , 80, 056105	2.4	20
54	Nonlinear q-voter model. <i>Physical Review E</i> , 2009 , 80, 041129	2.4	141
53	On the fairness of using relative indicators for comparing citation performance in different disciplines. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2009 , 57, 85-90	4	25
52	Collaborate, compete and share. <i>European Physical Journal B</i> , 2009 , 67, 319-327	1.2	6

51	Statistical physics of social dynamics. <i>Reviews of Modern Physics</i> , 2009 , 81, 591-646	40.5	2482
50	Heterogeneous pair approximation for voter models on networks. <i>Europhysics Letters</i> , 2009 , 88, 58004	1.6	48
49	Universality of citation distributions: toward an objective measure of scientific impact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17268-72	11.5	498
48	Statistical physics of the Schelling model of segregation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008 , 2008, L07002	1.9	35
47	Routes to thermodynamic limit on scale-free networks. <i>Physical Review Letters</i> , 2008 , 100, 148701	7.4	47
46	Signature of negative domain wall mass in soft magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 436-441	2.8	6
45	Scaling and universality in proportional elections. <i>Physical Review Letters</i> , 2007 , 99, 138701	7.4	122
44	Effective surface-tension in the noise-reduced voter model. <i>Europhysics Letters</i> , 2007 , 77, 60005	1.6	45
43	Castellano and Pastor-Satorras Reply:. <i>Physical Review Letters</i> , 2007 , 98,	7.4	23
42	Zero temperature Glauber dynamics on complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006 , 2006, P05001-P05001	1.9	27
41	Non-mean-field behavior of the contact process on scale-free networks. <i>Physical Review Letters</i> , 2006 , 96, 038701	7.4	103
40	Fluctuations and scaling in models for particle aggregation. <i>Surface Science</i> , 2006 , 600, 2392-2401	1.8	1
39	Breakdown of metastable step-flow growth on vicinal surfaces induced by nucleation. <i>Physical Review B</i> , 2005 , 72,	3.3	4
38	Comparison of voter and Glauber ordering dynamics on networks. <i>Physical Review E</i> , 2005 , 71, 066107	2.4	100
37	Signature of effective mass in crackling-noise asymmetry. <i>Nature Physics</i> , 2005 , 1, 46-49	16.2	85
36	Nucleation and step-edge barriers always destabilize step-flow growth of a vicinal surface. <i>Surface Science</i> , 2005 , 588, L227-L232	1.8	4
35	Effect of network topology on the ordering dynamics of voter models. <i>AIP Conference Proceedings</i> , 2005 ,	0	32
34	Mean-field limit of systems with multiplicative noise. <i>Physical Review E</i> , 2005 , 72, 056102	2.4	28

33	Generic features of the fluctuation dissipation relation in coarsening systems. <i>Physical Review E</i> , 2004 , 70, 017103	2.4	23
32	Solution of voter model dynamics on annealed small-world networks. <i>Physical Review E</i> , 2004 , 69, 016102	2.4	60
31	Defining and identifying communities in networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 2658-63	11.5	1540
30	Self-contained algorithms to detect communities in networks. <i>European Physical Journal B</i> , 2004 , 38, 311-319	1.2	35
29	Average trajectory of returning walks. <i>Physical Review E</i> , 2004 , 69, 041105	2.4	16
28	STANDARD SCALING AND MULTISCALING IN PHASE ORDERING DYNAMICS. <i>Fractals</i> , 2003 , 11, 197-202	3.2	
27	Incomplete ordering of the voter model on small-world networks. <i>Europhysics Letters</i> , 2003 , 63, 153-158	1.6	150
26	Average shape of a fluctuation: universality in excursions of stochastic processes. <i>Physical Review Letters</i> , 2003 , 90, 060601	7.4	53
25	Irreversible nucleation in molecular beam epitaxy: From theory to experiments. <i>Physical Review B</i> , 2003 , 67,	3.3	11
24	Ordering phase transition in the one-dimensional Axelrod model. <i>European Physical Journal B</i> , 2002 , 30, 399-406	1.2	52
23	Process of irreversible nucleation in multilayer growth. II. Exact results in one and two dimensions. <i>Physical Review E</i> , 2002 , 66, 031606	2.4	14
22	Process of irreversible nucleation in multilayer growth. I. Failure of the mean-field approach. <i>Physical Review E</i> , 2002 , 66, 031605	2.4	17
21	Universality of the off-equilibrium response function in the kinetic Ising chain. <i>Physical Review E</i> , 2002 , 65, 066114	2.4	19
20	Fast growth at low temperature in vacancy-mediated phase separation. <i>Physical Review B</i> , 2001 , 63,	3.3	4
19	Spatiotemporal distribution of nucleation events during crystal growth. <i>Physical Review Letters</i> , 2001 , 87, 056102	7.4	26
18	Nonequilibrium phase transition in a model for social influence. <i>Physical Review Letters</i> , 2000 , 85, 3536-9	7.4	225
17	Pinning of phase separation in a model of binary polymer blends. <i>Physical Review E</i> , 2000 , 61, 3252-3255	2.4	10
16	Nonmonotonic roughness evolution in unstable growth. <i>Physical Review B</i> , 2000 , 62, 2879-2888	3.3	8

15	Scale invariant dynamics of surface growth. <i>Physical Review E</i> , 1999 , 59, 6460-75	2.4	20
14	Criticality in models for fracture in disordered media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 270, 15-20	3.3	22
13	Critical behaviour in the fracture of disordered media. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999 , 79, 1939-1944		4
12	Preasymptotic multiscaling in the phase-ordering dynamics of the kinetic Ising model. <i>Europhysics Letters</i> , 1999 , 47, 158-163	1.6	1
11	Overall time evolution in phase-ordering kinetics. <i>Physical Review E</i> , 1998 , 58, 5410-5423	2.4	9
10	Phase ordering of conserved vectorial systems with field-dependent mobility. <i>Physical Review E</i> , 1998 , 58, 4658-4665	2.4	4
9	Coarsening and pinning in the self-consistent solution of polymer blends phase-separation kinetics. <i>Physical Review E</i> , 1998 , 57, 672-682	2.4	6
8	Nonperturbative Renormalization of the Kardar-Parisi-Zhang Growth Dynamics. <i>Physical Review Letters</i> , 1998 , 80, 3527-3530	7.4	57
7	High dimensional behavior of the Kardar-Parisi-Zhang growth dynamics. <i>Physical Review E</i> , 1998 , 58, R5209-R5212		21
6	Condensation vs phase ordering in the dynamics of first-order transitions. <i>Physical Review E</i> , 1997 , 56, 4973-4989	2.4	25
5	Glass temperature depression of polymer by use of mixed solvents: A colligative property. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996 , 34, 535-543	2.6	15
4	Multiscaling to standard-scaling crossover in the Bray-Humayun model for phase-ordering kinetics. <i>Physical Review E</i> , 1996 , 53, 1430-1440	2.4	11
3	Approach to Scaling in Phase-Ordering Kinetics. <i>Physical Review Letters</i> , 1996 , 77, 2742-2745	7.4	10
2	On the mechanism of pinning in phase-separating polymer blends. <i>Journal of Chemical Physics</i> , 1995 , 103, 9363-9369	3.9	32
1	Fractal and topological properties of directed fractures. <i>Physical Review E</i> , 1994 , 49, 2673-2679	2.4	20