

# Claudio Castellano

## List of Publications by Citations

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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	Statistical physics of social dynamics. <i>Reviews of Modern Physics</i> , <b>2009</b> , 81, 591-646	40.5	2482
121	Epidemic processes in complex networks. <i>Reviews of Modern Physics</i> , <b>2015</b> , 87, 925-979	40.5	1761
120	Defining and identifying communities in networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 2658-63	11.5	1540
119	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> , <b>2008</b> , 105, 17268-72	11.5	498
118	Thresholds for epidemic spreading in networks. <i>Physical Review Letters</i> , <b>2010</b> , 105, 218701	7.4	435
117	Nonequilibrium phase transition in a model for social influence. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3536-97.4	7.4	225
116	Nature of the epidemic threshold for the susceptible-infected-susceptible dynamics in networks. <i>Physical Review Letters</i> , <b>2013</b> , 111, 068701	7.4	182
115	Epidemic thresholds of the susceptible-infected-susceptible model on networks: a comparison of numerical and theoretical results. <i>Physical Review E</i> , <b>2012</b> , 86, 041125	2.4	163
114	Incomplete ordering of the voter model on small-world networks. <i>Europhysics Letters</i> , <b>2003</b> , 63, 153-1581.6	1.6	150
113	Nonlinear q-voter model. <i>Physical Review E</i> , <b>2009</b> , 80, 041129	2.4	141
112	Scaling and universality in proportional elections. <i>Physical Review Letters</i> , <b>2007</b> , 99, 138701	7.4	122
111	Competing activation mechanisms in epidemics on networks. <i>Scientific Reports</i> , <b>2012</b> , 2, 371	4.9	107
110	Non-mean-field behavior of the contact process on scale-free networks. <i>Physical Review Letters</i> , <b>2006</b> , 96, 038701	7.4	103
109	Griffiths phases on complex networks. <i>Physical Review Letters</i> , <b>2010</b> , 105, 128701	7.4	101
108	Comparison of voter and Glauber ordering dynamics on networks. <i>Physical Review E</i> , <b>2005</b> , 71, 066107	2.4	100
107	Signature of effective mass in crackling-noise asymmetry. <i>Nature Physics</i> , <b>2005</b> , 1, 46-49	16.2	85
106	Langevin approach for the dynamics of the contact process on annealed scale-free networks. <i>Physical Review E</i> , <b>2009</b> , 79, 036110	2.4	80

105	Rescaling citations of publications in physics. <i>Physical Review E</i> , <b>2011</b> , 83, 046116	2.4	65
104	Testing the fairness of citation indicators for comparison across scientific domains: The case of fractional citation counts. <i>Journal of Informetrics</i> , <b>2012</b> , 6, 121-130	3.1	63
103	Distinct types of eigenvector localization in networks. <i>Scientific Reports</i> , <b>2016</b> , 6, 18847	4.9	63
102	A reverse engineering approach to the suppression of citation biases reveals universal properties of citation distributions. <i>PLoS ONE</i> , <b>2012</b> , 7, e33833	3.7	62
101	Solution of voter model dynamics on annealed small-world networks. <i>Physical Review E</i> , <b>2004</b> , 69, 016102	2.4	60
100	Nonperturbative Renormalization of the Kardar-Parisi-Zhang Growth Dynamics. <i>Physical Review Letters</i> , <b>1998</b> , 80, 3527-3530	7.4	57
99	Average shape of a fluctuation: universality in excursions of stochastic processes. <i>Physical Review Letters</i> , <b>2003</b> , 90, 060601	7.4	53
98	Ordering phase transition in the one-dimensional Axelrod model. <i>European Physical Journal B</i> , <b>2002</b> , 30, 399-406	1.2	52
97	Heterogeneous pair approximation for voter models on networks. <i>Europhysics Letters</i> , <b>2009</b> , 88, 58004	1.6	48
96	Quantitative evaluation of alternative field normalization procedures. <i>Journal of Informetrics</i> , <b>2013</b> , 7, 746-755	3.1	47
95	Routes to thermodynamic limit on scale-free networks. <i>Physical Review Letters</i> , <b>2008</b> , 100, 148701	7.4	47
94	Effective surface-tension in the noise-reduced voter model. <i>Europhysics Letters</i> , <b>2007</b> , 77, 60005	1.6	45
93	Breaking of the site-bond percolation universality in networks. <i>Nature Communications</i> , <b>2015</b> , 6, 10196	17.4	44
92	Leveraging percolation theory to single out influential spreaders in networks. <i>Physical Review E</i> , <b>2016</b> , 93, 062314	2.4	43
91	Quasistationary simulations of the contact process on quenched networks. <i>Physical Review E</i> , <b>2011</b> , 84, 066102	2.4	42
90	Beyond the locally treelike approximation for percolation on real networks. <i>Physical Review E</i> , <b>2016</b> , 93, 030302	2.4	40
89	Voter models on weighted networks. <i>Physical Review E</i> , <b>2011</b> , 83, 066117	2.4	36
88	Statistical physics of the Schelling model of segregation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2008</b> , 2008, L07002	1.9	35

87	Self-contained algorithms to detect communities in networks. <i>European Physical Journal B</i> , <b>2004</b> , 38, 311-319	1.2	35
86	Rare-region effects in the contact process on networks. <i>Physical Review E</i> , <b>2012</b> , 85, 066125	2.4	33
85	Fundamental difference between superblockers and superspreaders in networks. <i>Physical Review E</i> , <b>2017</b> , 95, 012318	2.4	32
84	Relating Topological Determinants of Complex Networks to Their Spectral Properties: Structural and Dynamical Effects. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	32
83	Effect of network topology on the ordering dynamics of voter models. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	32
82	On the mechanism of pinning in phase-separating polymer blends. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 9363-9369	3.9	32
81	Mean-Field Analysis of the q-Voter Model on Networks. <i>Journal of Statistical Physics</i> , <b>2013</b> , 151, 113-130	1.5	30
80	Analysis of bibliometric indicators for individual scholars in a large data set. <i>Scientometrics</i> , <b>2013</b> , 97, 627-637	3	30
79	Mean-field limit of systems with multiplicative noise. <i>Physical Review E</i> , <b>2005</b> , 72, 056102	2.4	28
78	Eigenvector Localization in Real Networks and Its Implications for Epidemic Spreading. <i>Journal of Statistical Physics</i> , <b>2018</b> , 173, 1110-1123	1.5	27
77	Zero temperature Glauber dynamics on complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2006</b> , 2006, P05001-P05001	1.9	27
76	High dimensional behavior of the Kardar-Parisi-Zhang growth dynamics. <i>Physical Review E</i> , <b>1998</b> , 58, R5209-R5217	2.4	27
75	Spatiotemporal distribution of nucleation events during crystal growth. <i>Physical Review Letters</i> , <b>2001</b> , 87, 056102	7.4	26
74	On the fairness of using relative indicators for comparing citation performance in different disciplines. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , <b>2009</b> , 57, 85-90	4	25
73	Condensation vs phase ordering in the dynamics of first-order transitions. <i>Physical Review E</i> , <b>1997</b> , 56, 4973-4989	2.4	25
72	Mutually cooperative epidemics on power-law networks. <i>Physical Review E</i> , <b>2017</b> , 96, 022301	2.4	23
71	Castellano and Pastor-Satorras Reply:. <i>Physical Review Letters</i> , <b>2007</b> , 98,	7.4	23
70	Generic features of the fluctuation dissipation relation in coarsening systems. <i>Physical Review E</i> , <b>2004</b> , 70, 017103	2.4	23

69	Systematic comparison between methods for the detection of influential spreaders in complex networks. <i>Scientific Reports</i> , <b>2019</b> , 9, 15095	4.9	22
68	Field-normalized impact factors (IFs): A comparison of rescaling and fractionally counted IFs. <i>Journal of the Association for Information Science and Technology</i> , <b>2013</b> , 64, 2299-2309		22
67	Criticality in models for fracture in disordered media. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1999</b> , 270, 15-20	3.3	22
66	Internal and external dynamics in language: evidence from verb regularity in a historical corpus of English. <i>PLoS ONE</i> , <b>2014</b> , 9, e102882	3.7	22
65	Coevolution of Glauber-like Ising dynamics and topology. <i>Physical Review E</i> , <b>2009</b> , 80, 056105	2.4	20
64	Irrelevance of information outflow in opinion dynamics models. <i>Physical Review E</i> , <b>2011</b> , 83, 016113	2.4	20
63	Scale invariant dynamics of surface growth. <i>Physical Review E</i> , <b>1999</b> , 59, 6460-75	2.4	20
62	Fractal and topological properties of directed fractures. <i>Physical Review E</i> , <b>1994</b> , 49, 2673-2679	2.4	20
61	Universality of the off-equilibrium response function in the kinetic Ising chain. <i>Physical Review E</i> , <b>2002</b> , 65, 066114	2.4	19
60	Spectral properties and the accuracy of mean-field approaches for epidemics on correlated power-law networks. <i>Physical Review Research</i> , <b>2019</b> , 1,	3.9	18
59	Topological structure and the H index in complex networks. <i>Physical Review E</i> , <b>2017</b> , 95, 022301	2.4	17
58	Process of irreversible nucleation in multilayer growth. I. Failure of the mean-field approach. <i>Physical Review E</i> , <b>2002</b> , 66, 031605	2.4	17
57	Epidemic spreading and aging in temporal networks with memory. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	17
56	Average trajectory of returning walks. <i>Physical Review E</i> , <b>2004</b> , 69, 041105	2.4	16
55	Glass temperature depression of polymer by use of mixed solvents: A colligative property. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 535-543	2.6	15
54	Consensus versus persistence of disagreement in opinion formation: the role of zealots. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2016</b> , 2016, 033401	1.9	14
53	Dynamics to equilibrium in network games: individual behavior and global response. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120343	3.7	14
52	Interplay between media and social influence in the collective behavior of opinion dynamics. <i>Physical Review E</i> , <b>2015</b> , 92, 042815	2.4	14

51	Process of irreversible nucleation in multilayer growth. II. Exact results in one and two dimensions. <i>Physical Review E</i> , <b>2002</b> , 66, 031606	2.4	14
50	General three-state model with biased population replacement: analytical solution and application to language dynamics. <i>Physical Review E</i> , <b>2015</b> , 91, 012808	2.4	12
49	The adoption of linguistic rules in native and non-native speakers: Evidence from a Wug task. <i>Journal of Memory and Language</i> , <b>2015</b> , 84, 205-223	3.8	11
48	Irreversible nucleation in molecular beam epitaxy: From theory to experiments. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	11
47	Multiscaling to standard-scaling crossover in the Bray-Humayun model for phase-ordering kinetics. <i>Physical Review E</i> , <b>1996</b> , 53, 1430-1440	2.4	11
46	Cumulative Merging Percolation and the Epidemic Transition of the Susceptible-Infected-Susceptible Model in Networks. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	10
45	Universal and nonuniversal features of the generalized voter class for ordering dynamics in two dimensions. <i>Physical Review E</i> , <b>2012</b> , 86, 051123	2.4	10
44	Pinning of phase separation in a model of binary polymer blends. <i>Physical Review E</i> , <b>2000</b> , 61, 3252-3255	2.4	10
43	Approach to Scaling in Phase-Ordering Kinetics. <i>Physical Review Letters</i> , <b>1996</b> , 77, 2742-2745	7.4	10
42	Relevance of backtracking paths in recurrent-state epidemic spreading on networks. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	10
41	Effect of network clustering on mutually cooperative coinfections. <i>Physical Review E</i> , <b>2019</b> , 99, 022301	2.4	9
40	On the numerical study of percolation and epidemic critical properties in networks. <i>European Physical Journal B</i> , <b>2016</b> , 89, 1	1.2	9
39	Overall time evolution in phase-ordering kinetics. <i>Physical Review E</i> , <b>1998</b> , 58, 5410-5423	2.4	9
38	Small world in the real world: Long distance dispersal governs epidemic dynamics in agricultural landscapes. <i>Epidemics</i> , <b>2020</b> , 30, 100384	5.1	8
37	Message-passing theory for cooperative epidemics. <i>Chaos</i> , <b>2020</b> , 30, 023131	3.3	8
36	Analytical study of quality-biased competition dynamics for memes in social media. <i>Europhysics Letters</i> , <b>2018</b> , 122, 28002	1.6	8
35	Lifespan method as a tool to study criticality in absorbing-state phase transitions. <i>Physical Review E</i> , <b>2015</b> , 91, 052117	2.4	8
34	Physics peeks into the ballot box. <i>Physics Today</i> , <b>2012</b> , 65, 74-75	0.9	8

33	Nonmonotonic roughness evolution in unstable growth. <i>Physical Review B</i> , <b>2000</b> , 62, 2879-2888	3.3	8
32	Competition between vaccination and disease spreading. <i>Physical Review E</i> , <b>2020</b> , 101, 062306	2.4	7
31	Social Influence and the Dynamics of Opinions: The Approach of Statistical Physics. <i>Managerial and Decision Economics</i> , <b>2012</b> , 33, 311-321	1.1	7
30	Influential spreaders for recurrent epidemics on networks. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	7
29	Rapid decay in the relative efficiency of quarantine to halt epidemics in networks. <i>Physical Review E</i> , <b>2018</b> , 97, 022308	2.4	6
28	Uncertainty Reduction for Stochastic Processes on Complex Networks. <i>Physical Review Letters</i> , <b>2018</b> , 120, 198301	7.4	6
27	Collaborate, compete and share. <i>European Physical Journal B</i> , <b>2009</b> , 67, 319-327	1.2	6
26	Signature of negative domain wall mass in soft magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, 436-441	2.8	6
25	Coarsening and pinning in the self-consistent solution of polymer blends phase-separation kinetics. <i>Physical Review E</i> , <b>1998</b> , 57, 672-682	2.4	6
24	The localization of non-backtracking centrality in networks and its physical consequences. <i>Scientific Reports</i> , <b>2020</b> , 10, 21639	4.9	6
23	The regularity game: Investigating linguistic rule dynamics in a population of interacting agents. <i>Cognition</i> , <b>2017</b> , 159, 25-32	3.5	5
22	Breakdown of metastable step-flow growth on vicinal surfaces induced by nucleation. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	4
21	Nucleation and step-edge barriers always destabilize step-flow growth of a vicinal surface. <i>Surface Science</i> , <b>2005</b> , 588, L227-L232	1.8	4
20	Fast growth at low temperature in vacancy-mediated phase separation. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	4
19	Phase ordering of conserved vectorial systems with field-dependent mobility. <i>Physical Review E</i> , <b>1998</b> , 58, 4658-4665	2.4	4
18	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> , <b>1999</b> , 79, 1939-1944		4
17	Emergence of polarization in a voter model with personalized information. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	4
16	Why Sirtes's claims () do not square with reality. <i>Journal of Informetrics</i> , <b>2012</b> , 6, 615-618	3.1	3

15	Understanding the Scientific Enterprise: Citation Analysis, Data and Modeling <b>2015</b> , 135-151		2
14	Griffiths phases in the contact process on complex networks <b>2011</b> ,		2
13	Classes of critical avalanche dynamics in complex networks. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	2
12	Effect of delayed awareness and fatigue on the efficacy of self-isolation in epidemic control. <i>Physical Review E</i> , <b>2021</b> , 104, 044316	2.4	2
11	Stochastic sampling effects favor manual over digital contact tracing. <i>Nature Communications</i> , <b>2021</b> , 12, 1919	17.4	2
10	Fluctuations and scaling in models for particle aggregation. <i>Surface Science</i> , <b>2006</b> , 600, 2392-2401	1.8	1
9	Preasymptotic multiscaling in the phase-ordering dynamics of the kinetic Ising model. <i>Europhysics Letters</i> , <b>1999</b> , 47, 158-163	1.6	1
8	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> , <b>2014</b> , 133-145	0.3	1
7	Degree-ordered-percolation on uncorrelated networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2020</b> , 2020, 113401	1.9	1
6	Percolation theory of self-exciting temporal processes. <i>Physical Review E</i> , <b>2021</b> , 103, L020302	2.4	1
5	Influence of individual nodes for continuous-time susceptible-infected-susceptible dynamics on synthetic and real-world networks. <i>Physical Review E</i> , <b>2021</b> , 104, 014306	2.4	0
4	Universality, criticality and complexity of information propagation in social media.. <i>Nature Communications</i> , <b>2022</b> , 13, 1308	17.4	0
3	Filter bubble effect in the multistate voter model.. <i>Chaos</i> , <b>2022</b> , 32, 043103	3.3	0
2	Sideward contact tracing and the control of epidemics in large gatherings.. <i>Journal of the Royal Society Interface</i> , <b>2022</b> , 19, 20220048	4.1	0
1	STANDARD SCALING AND MULTISCALING IN PHASE ORDERING DYNAMICS. <i>Fractals</i> , <b>2003</b> , 11, 197-202	3.2	