

Antonio Scala

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.

120
papers

8,312
citations

39
h-index

90
g-index

124
ext. papers

10,024
ext. citations

4.6
avg, IF

6.28
L-index

#	Paper	IF	Citations
120	Classes of small-world networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11149-52	11.5	2042
119	The spreading of misinformation online. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 554-9	11.5	813
118	The COVID-19 social media infodemic. <i>Scientific Reports</i> , 2020 , 10, 16598	4.9	546
117	Economic and social consequences of human mobility restrictions under COVID-19. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15530-15535	11.5	401
116	Configurational entropy and diffusivity of supercooled water. <i>Nature</i> , 2000 , 406, 166-9	50.4	308
115	Science vs conspiracy: collective narratives in the age of misinformation. <i>PLoS ONE</i> , 2015 , 10, e0118093	3.7	246
114	Saddles in the energy landscape probed by supercooled liquids. <i>Physical Review Letters</i> , 2000 , 85, 5356-9	7.4	195
113	Echo Chambers: Emotional Contagion and Group Polarization on Facebook. <i>Scientific Reports</i> , 2016 , 6, 37825	4.9	178
112	Liquid-State Anomalies and the Stell-Hemmer Core-Softened Potential. <i>Physical Review Letters</i> , 1998 , 81, 4895-4898	7.4	174
111	Polarization of the vaccination debate on Facebook. <i>Vaccine</i> , 2018 , 36, 3606-3612	4.1	142
110	Assortativity decreases the robustness of interdependent networks. <i>Physical Review E</i> , 2012 , 86, 066103	3.4	141
109	Debunking in a world of tribes. <i>PLoS ONE</i> , 2017 , 12, e0181821	3.7	121
108	A network analysis of countries' export flows: firm grounds for the building blocks of the economy. <i>PLoS ONE</i> , 2012 , 7, e47278	3.7	112
107	Anatomy of news consumption on Facebook. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3035-3039	11.5	110
106	Mapping social dynamics on Facebook: The Brexit debate. <i>Social Networks</i> , 2017 , 50, 6-16	3.9	98
105	Opinion dynamics on interacting networks: media competition and social influence. <i>Scientific Reports</i> , 2014 , 4, 4938	4.9	97
104	Models for a liquid-liquid phase transition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 304, 23-42	3.3	97

103	Emotional Dynamics in the Age of Misinformation. <i>PLoS ONE</i> , 2015 , 10, e0138740	3.7	95
102	Abruptness of cascade failures in power grids. <i>Scientific Reports</i> , 2014 , 4, 3694	4.9	93
101	Echo Chambers on Facebook. <i>SSRN Electronic Journal</i> , 2016 ,	1	93
100	Users Polarization on Facebook and Youtube. <i>PLoS ONE</i> , 2016 , 11, e0159641	3.7	89
99	Event-driven Brownian dynamics for hard spheres. <i>Journal of Chemical Physics</i> , 2007 , 126, 134109	3.9	87
98	Modeling confirmation bias and polarization. <i>Scientific Reports</i> , 2017 , 7, 40391	4.9	83
97	Local structural heterogeneities in liquid water under pressure. <i>Chemical Physics Letters</i> , 1998 , 294, 9-12.5		79
96	Waterlike anomalies for core-softened models of fluids: two-dimensional systems. <i>Physical Review E</i> , 2001 , 63, 041202	2.4	77
95	Thermodynamic and structural aspects of the potential energy surface of simulated water. <i>Physical Review E</i> , 2001 , 63, 041201	2.4	75
94	Instantaneous normal mode analysis of supercooled water. <i>Physical Review Letters</i> , 2000 , 84, 4605-8	7.4	75
93	The puzzling behavior of water at very low temperature. Invited Lecture. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 1551-1558	3.6	72
92	Waterlike anomalies for core-softened models of fluids: one dimension. <i>Physical Review E</i> , 1999 , 60, 6714-21	7.1	71
91	Small-world networks and the conformation space of a short lattice polymer chain. <i>Europhysics Letters</i> , 2001 , 55, 594-600	1.6	70
90	Polarization and Fake News. <i>ACM Transactions on the Web</i> , 2019 , 13, 1-22	3.2	67
89	Self-healing networks: redundancy and structure. <i>PLoS ONE</i> , 2014 , 9, e87986	3.7	57
88	Robustness and assortativity for diffusion-like processes in scale-free networks. <i>Europhysics Letters</i> , 2012 , 97, 68006	1.6	57
87	Free energy surface of supercooled water. <i>Physical Review E</i> , 2000 , 62, 8016-20	2.4	54
86	Trend of Narratives in the Age of Misinformation. <i>PLoS ONE</i> , 2015 , 10, e0134641	3.7	53

85	Homophily and polarization in the age of misinformation. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 2047-2059	2.3	49
84	Applications of the Stellendammer Potential to Understanding Second Critical Points in Real Systems. <i>Journal of Statistical Physics</i> , 2000 , 100, 97-106	1.5	49
83	Quasisaddles as relevant points of the potential energy surface in the dynamics of supercooled liquids. <i>Journal of Chemical Physics</i> , 2002 , 116, 10297-10306	3.9	46
82	Quasicrystals in a monodisperse system. <i>Physical Review E</i> , 1999 , 60, 2664-9	2.4	40
81	Topological Taxonomy of Water Distribution Networks. <i>Water (Switzerland)</i> , 2018 , 10, 444	3	38
80	The puzzling statistical physics of liquid water. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 257, 213-232	3.3	38
79	Data-driven modeling of solar-powered urban microgrids. <i>Science Advances</i> , 2016 , 2, e1500700	14.3	37
78	Viral Misinformation 2015 ,		35
77	The puzzle of liquid water: a very complex fluid. <i>Physica D: Nonlinear Phenomena</i> , 1999 , 133, 453-462	3.3	35
76	Time, space and social interactions: exit mechanisms for the Covid-19 epidemics. <i>Scientific Reports</i> , 2020 , 10, 13764	4.9	33
75	Human mobility in response to COVID-19 in France, Italy and UK. <i>Scientific Reports</i> , 2021 , 11, 13141	4.9	33
74	Dynamics of supercooled water in configuration space. <i>Physical Review E</i> , 2001 , 64, 036102	2.4	32
73	Topological Placement of Quality Sensors in Water-Distribution Networks without the Recourse to Hydraulic Modeling. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020030	2.8	31
72	The economy of attention in the age of (mis)information. <i>Journal of Trust Management</i> , 2014 , 1,		29
71	Islanding the power grid on the transmission level: less connections for more security. <i>Scientific Reports</i> , 2016 , 6, 34797	4.9	27
70	Critical clusters and efficient dynamics for frustrated spin models. <i>Physical Review Letters</i> , 1994 , 72, 1544-1544	1.5	27
69	Sparse and distributed Analytic Hierarchy Process. <i>Automatica</i> , 2017 , 85, 211-220	5.7	25
68	Statistical physics and liquid water: What matters? <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 306, 230-242	3.3	22

67	Application of Statistical Physics to Understand Static and Dynamic Anomalies in Liquid Water. <i>Journal of Statistical Physics</i> , 2003 , 110, 1039-1054	1.5	22
66	Social Determinants of Content Selection in the Age of (Mis)Information. <i>Lecture Notes in Computer Science</i> , 2014 , 259-268	0.9	22
65	Green Power Grids: How Energy from Renewable Sources Affects Networks and Markets. <i>PLoS ONE</i> , 2015 , 10, e0135312	3.7	21
64	Percolation and cluster Monte Carlo dynamics for spin models. <i>Physical Review E</i> , 1996 , 54, 175-189	2.4	21
63	A network approach to orthodontic diagnosis. <i>Orthodontics and Craniofacial Research</i> , 2011 , 14, 189-97	3	20
62	Selective exposure shapes the Facebook news diet. <i>PLoS ONE</i> , 2020 , 15, e0229129	3.7	19
61	Recursive patterns in online echo chambers. <i>Scientific Reports</i> , 2019 , 9, 20118	4.9	19
60	Cascades in interdependent flow networks. <i>Physica D: Nonlinear Phenomena</i> , 2016 , 323-324, 35-39	3.3	19
59	Recent results on the connection between thermodynamics and dynamics in supercooled water. <i>Biophysical Chemistry</i> , 2003 , 105, 573-83	3.5	18
58	Unsolved mysteries of water in its liquid and glassy phases. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, A403-A412	1.8	18
57	A Complex Network Approach for the Estimation of the Energy Demand of Electric Mobility. <i>Scientific Reports</i> , 2018 , 8, 268	4.9	17
56	Knowing power grids and understanding complexity science. <i>International Journal of Critical Infrastructures</i> , 2015 , 11, 4	1	17
55	Comment on Quasisaddles as relevant points of the potential energy surface in the dynamics of supercooled liquids[J. Chem. Phys. 116, 10297 (2002)]. <i>Journal of Chemical Physics</i> , 2003 , 118, 5263-5264	3.9	17
54	Saddle index properties, singular topology, and its relation to thermodynamic singularities for a ϕ^4 mean-field model. <i>Physical Review E</i> , 2004 , 70, 036125	2.4	17
53	Cascade failures and distributed generation in power grids. <i>International Journal of Critical Infrastructures</i> , 2015 , 11, 27	1	15
52	Crossover between Spatially Confined Precipitation and Periodic Pattern Formation in Reaction Diffusion Systems. <i>Physical Review Letters</i> , 1996 , 77, 2834-2837	7.4	15
51	Event-driven Langevin simulations of hard spheres. <i>Physical Review E</i> , 2012 , 86, 026709	2.4	14
50	Using networks to understand medical data: the case of Class III malocclusions. <i>PLoS ONE</i> , 2012 , 7, e44521	3.7	11

49	The equal load-sharing model of cascade failures in power grids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 462, 737-742	3.3	11
48	Infodemics: A new challenge for public health. <i>Cell</i> , 2021 , 184, 6010-6014	56.2	9
47	2018 ,		9
46	Kinetics of spatially confined precipitation and periodic pattern formation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 239, 390-403	3.3	8
45	Water and its energy landscape. <i>European Physical Journal E</i> , 2002 , 9, 233-7	1.5	8
44	Fluctuation-dissipation relations and energy landscape in an out-of-equilibrium strong-glass-forming liquid. <i>Physical Review Letters</i> , 2003 , 90, 115503	7.4	8
43	Thermodynamically important contacts in folding of model proteins. <i>Physical Review E</i> , 2001 , 63, 032901	2.4	8
42	A stroll in the energy landscape. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002 , 82, 151-161		8
41	Opinion-based optimal group formation. <i>Omega</i> , 2019 , 89, 164-176	7.2	8
40	Complex networks for data-driven medicine: the case of Class III dentoskeletal disharmony. <i>New Journal of Physics</i> , 2014 , 16, 115017	2.9	7
39	Molecular correlation functions for uniaxial ellipsoids in the isotropic state. <i>Journal of Chemical Physics</i> , 2006 , 124, 104509	3.9	7
38	Reply to Comment on Quasisaddles as relevant points of the potential energy surface in the dynamics of supercooled liquids [J. Chem. Phys. 118, 5263 (2002)]. <i>Journal of Chemical Physics</i> , 2003 , 118, 5265-5266	3.9	7
37	Portfolio analysis and geographical allocation of renewable sources: A stochastic approach. <i>Energy Policy</i> , 2019 , 125, 154-159	7.2	7
36	A Holistic Approach for Collaborative Workload Execution in Volunteer Clouds. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2018 , 28, 1-27	0.6	6
35	Brownian dynamics simulation of polydisperse hard spheres. <i>European Physical Journal: Special Topics</i> , 2013 , 216, 21-29	2.3	6
34	Generalized percolation models for frustrated spin systems. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994 , 16, 1259-1264		6
33	Health-care inequalities in Italy: challenges for the Government. <i>Lancet Public Health, The</i> , 2019 , 4, e605	22.4	6
32	Sparse analytic hierarchy process: an experimental analysis. <i>Soft Computing</i> , 2019 , 23, 2887-2898	3.5	5

31	2016,		4
30	A Workload-Based Approach to Partition the Volunteer Cloud 2015,		4
29	CompetitorsCommunities and taxonomy of products according to export fluxes. <i>European Physical Journal: Special Topics</i> , 2012 , 212, 115-120	2.3	4
28	Distributed Generation and Resilience in Power Grids. <i>Lecture Notes in Computer Science</i> , 2013 , 71-79	0.9	4
27	The mathematics of multiple lockdowns. <i>Scientific Reports</i> , 2021 , 11, 8078	4.9	4
26	How News May Affect Markets' Complex Structure: The Case of Cambridge Analytica. <i>Entropy</i> , 2018 , 20,	2.8	4
25	The faster the better: On the shortest paths role for near real-time decision making of water utilities. <i>Reliability Engineering and System Safety</i> , 2021 , 212, 107589	6.3	4
24	PopRank: Ranking pages' impact and users' engagement on Facebook. <i>PLoS ONE</i> , 2019 , 14, e0211038	3.7	3
23	Mitigating cascades in sandpile models: an immunization strategy for systemic risk?. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 2017-2023	2.3	3
22	A stroll in the energy landscape		3
21	Between Geography and Demography: Key Interdependencies and Exit Mechanisms for Covid-19		3
20	The present state of Lake Bracciano: hope and despair. <i>Rendiconti Lincei</i> , 2019 , 30, 83-91	1.7	3
19	Complexity Science for Sustainable Smart Water Grids. <i>Communications in Computer and Information Science</i> , 2017 , 26-41	0.3	2
18	An agent based approach for the development of EV fleet Charging Strategies in Smart Cities 2014,		2
17	POPULATION DYNAMICS ON COMPLEX FOOD WEBS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2011 , 14, 635-647	0.8	2
16	Off-equilibrium dynamics in the energy landscape of a simple model glass. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002 , 82, 163-169		2
15	Off-equilibrium dynamics in the energy landscape of a simple model glass. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002 , 82, 163-169		2
14	Power Grids, Smart Grids and Complex Networks. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014 , 97-110	0.3	2

13	Measuring social response to different journalistic techniques on Facebook. <i>Humanities and Social Sciences Communications</i> , 2020 , 7,	2.8	2
12	A Mean Field Model of Coupled Cascades in Flow Networks. <i>Lecture Notes in Computer Science</i> , 2016 , 259-263	0.9	2
11	Adopting the cloud to manage the electricity grid 2016 ,		1
10	Opinion dynamics on interacting networks: media competition and social influence		1
9	A Data-driven approach to renewable energy source planning at regional level. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 1-12	3.1	0
8	Complex Networks and Infrastructural Grids 2018 , 341-396		
7	Availability Study of the Italian Electricity SCADA System in the Cloud. <i>Lecture Notes in Computer Science</i> , 2017 , 201-212	0.9	
6	Everyday the Same Picture: Popularity and Content Diversity. <i>Springer Proceedings in Complexity</i> , 2017 , 225-236	0.3	
5	Access Time Eccentricity and Diameter. <i>Lecture Notes in Control and Information Sciences</i> , 2017 , 215-226	0.5	
4	The Robustness of Assortativity. <i>Lecture Notes in Computer Science</i> , 2013 , 223-226	0.9	
3	The Complexity Science Approach vs. the Simulative Approach 2013 , 139-152		
2	Self-Healing Protocols for Infrastructural Networks. <i>Lecture Notes in Computer Science</i> , 2016 , 308-313	0.9	
1	Complex systems applications to electric mobility and regional intermittent sources planning 2021 , 641-664		