

Nicola Perra

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,978
citations

147726

31
h-index

175177

52
g-index

67
all docs

67
docs citations

67
times ranked

4581
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical physics of vaccination. <i>Physics Reports</i> , 2016, 664, 1-113.	10.3	734
2	Modeling Users' Activity on Twitter Networks: Validation of Dunbar's Number. <i>PLoS ONE</i> , 2011, 6, e22656.	1.1	407
3	Non-pharmaceutical interventions during the COVID-19 pandemic: A review. <i>Physics Reports</i> , 2021, 913, 1-52.	10.3	336
4	Seasonal transmission potential and activity peaks of the new influenza A(H1N1): a Monte Carlo likelihood analysis based on human mobility. <i>BMC Medicine</i> , 2009, 7, 45.	2.3	299
5	Modeling human mobility responses to the large-scale spreading of infectious diseases. <i>Scientific Reports</i> , 2011, 1, 62.	1.6	269
6	Real-time numerical forecast of global epidemic spreading: case study of 2009 A/H1N1pdm. <i>BMC Medicine</i> , 2012, 10, 165.	2.3	230
7	Towards a Characterization of Behavior-Disease Models. <i>PLoS ONE</i> , 2011, 6, e23084.	1.1	197
8	The Twitter of Babel: Mapping World Languages through Microblogging Platforms. <i>PLoS ONE</i> , 2013, 8, e61981.	1.1	191
9	Time varying networks and the weakness of strong ties. <i>Scientific Reports</i> , 2014, 4, 4001.	1.6	187
10	Random Walks and Search in Time-Varying Networks. <i>Physical Review Letters</i> , 2012, 109, 238701.	2.9	153
11	Controlling Contagion Processes in Activity Driven Networks. <i>Physical Review Letters</i> , 2014, 112, 118702.	2.9	147
12	Spectral centrality measures in complex networks. <i>Physical Review E</i> , 2008, 78, 036107.	0.8	122
13	Quantifying the effect of temporal resolution on time-varying networks. <i>Scientific Reports</i> , 2013, 3, 3006.	1.6	115
14	The role of information diffusion in the evolution of social networks. , 2013, , .		109
15	Collective Response to Media Coverage of the COVID-19 Pandemic on Reddit and Wikipedia: Mixed-Methods Analysis. <i>Journal of Medical Internet Research</i> , 2020, 22, e21597.	2.1	94
16	Epidemic spreading in modular time-varying networks. <i>Scientific Reports</i> , 2018, 8, 2352.	1.6	80
17	Estimating the effect of social inequalities on the mitigation of COVID-19 across communities in Santiago de Chile. <i>Nature Communications</i> , 2021, 12, 2429.	5.8	80
18	Contagion dynamics in time-varying metapopulation networks. <i>Physical Review E</i> , 2013, 87, .	0.8	70

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19	The dynamics of information-driven coordination phenomena: A transfer entropy analysis. <i>Science Advances</i> , 2016, 2, e1501158.	4.7	67
20	Resilience management during large-scale epidemic outbreaks. <i>Scientific Reports</i> , 2018, 8, 1859.	1.6	67
21	Cryptic transmission of SARS-CoV-2 and the first COVID-19 wave. <i>Nature</i> , 2021, 600, 127-132.	13.7	61
22	Modelling opinion dynamics in the age of algorithmic personalisation. <i>Scientific Reports</i> , 2019, 9, 7261.	1.6	57
23	Contrasting effects of strong ties on SIR and SIS processes in temporal networks. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	53
24	Phase transitions in information spreading on structured populations. <i>Nature Physics</i> , 2020, 16, 590-596.	6.5	53
25	The importance of non-pharmaceutical interventions during the COVID-19 vaccine rollout. <i>PLoS Computational Biology</i> , 2021, 17, e1009346.	1.5	51
26	Epidemic spreading on activity-driven networks with attractiveness. <i>Physical Review E</i> , 2017, 96, 042310.	0.8	50
27	Beating the news using social media: the case study of American Idol. <i>EPJ Data Science</i> , 2012, 1, .	1.5	48
28	Forecasting Seasonal Influenza Fusing Digital Indicators and a Mechanistic Disease Model. , 2017, , .		47
29	Combining Participatory Influenza Surveillance with Modeling and Forecasting: Three Alternative Approaches. <i>JMIR Public Health and Surveillance</i> , 2017, 3, e83.	1.2	42
30	Random walks on activity-driven networks with attractiveness. <i>Physical Review E</i> , 2017, 95, 052318.	0.8	41
31	The role of endogenous and exogenous mechanisms in the formation of R&D networks. <i>Scientific Reports</i> , 2015, 4, 5679.	1.6	40
32	Asymptotic theory of time-varying social networks with heterogeneous activity and tie allocation. <i>Scientific Reports</i> , 2016, 6, 35724.	1.6	34
33	Characterizing scientific production and consumption in Physics. <i>Scientific Reports</i> , 2013, 3, 1640.	1.6	32
34	Burstiness and tie activation strategies in time-varying social networks. <i>Scientific Reports</i> , 2017, 7, 46225.	1.6	32
35	Committed activists and the reshaping of status-quo social consensus. <i>Physical Review E</i> , 2015, 92, 042805.	0.8	29
36	Epidemic spreading on time-varying multiplex networks. <i>Physical Review E</i> , 2018, 98, .	0.8	28

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37	The Scaling of Human Contacts and Epidemic Processes in Metapopulation Networks. Scientific Reports, 2015, 5, 15111.	1.6	24
38	Towards a data-driven characterization of behavioral changes induced by the seasonal flu. PLoS Computational Biology, 2020, 16, e1007879.	1.5	22
39	Modeling the critical care demand and antibiotics resources needed during the Fall 2009 wave of influenza A(H1N1) pandemic. PLOS Currents, 2009, 1, RRN1133.	1.4	20
40	Addressing the socioeconomic divide in computational modeling for infectious diseases. Nature Communications, 2022, 13, .	5.8	20
41	Explore with caution: mapping the evolution of scientific interest in physics. EPJ Data Science, 2019, 8, .	1.5	19
42	The infection tree of global epidemics. Network Science, 2014, 2, 132-137.	0.8	18
43	Social Data Mining and Seasonal Influenza Forecasts: The FluOutlook Platform. Lecture Notes in Computer Science, 2015, , 237-240.	1.0	18
44	Estimate of Novel Influenza A/H1N1 cases in Mexico at the early stage of the pandemic with a spatially structured epidemic model. PLOS Currents, 2009, 1, RRN1129.	1.4	17
45	Charting the Next Pandemic. , 2019, , .		16
46	Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A(H1N1) influenza in the Northern Hemisphere. Emerging Health Threats Journal, 2008, 2, e11.	3.0	15
47	Attention on Weak Ties in Social and Communication Networks. Computational Social Sciences, 2018, , 213-228.	0.4	14
48	Self-initiated behavioral change and disease resurgence on activity-driven networks. Physical Review E, 2021, 104, 014307.	0.8	13
49	Modeling and Predicting Human Infectious Diseases. , 2015, , 59-83.		12
50	Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A(H1N1) influenza in the Northern Hemisphere. Emerging Health Threats Journal, 2009, 2, 7093.	3.0	11
51	Ethical implications of network data in business and management settings. Social Networks, 2021, 67, 29-40.	1.3	10
52	Damage detection via shortest-path network sampling. Physical Review E, 2014, 89, 052816.	0.8	7
53	VoroGraph. , 2015, , .		5
54	Spreading of computer viruses on time-varying networks. Physical Review E, 2019, 99, 050303.	0.8	5

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55	Anatomy of the first six months of COVID-19 vaccination campaign in Italy. PLoS Computational Biology, 2022, 18, e1010146.	1.5	5
56	Social Networks, Contagion Processes and the Spreading of Infectious Diseases. , 2013, , 515-527.		3
57	Control Strategies of Contagion Processes in Time-Varying Networks. Theoretical Biology, 2017, , 179-197.	0.0	3
58	The spreading of infectious diseases in modern socio-technical systems Comment on "Pattern transitions in spatial epidemics: Mechanisms and emergent properties" by Gui-Quan Sun et al.. Physics of Life Reviews, 2016, 19, 87-89.	1.5	2
59	Modeling Contact and Mobility Based Social Response to the Spreading of Infectious Diseases. , 2013, , 103-123.		1
60	The Effects of Local and Global Link Creation Mechanisms on Contagion Processes Unfolding on Time-Varying Networks. Computational Social Sciences, 2019, , 305-324.	0.4	0