

# Jose Javier Ramasco

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8377828/jose-javier-ramasco-publications-by-citations.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.

97  
papers

6,086  
citations

33  
h-index

77  
g-index

104  
ext. papers

7,164  
ext. citations

4.6  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
97	Multiscale mobility networks and the spatial spreading of infectious diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 21484-9	11.5	821
96	Finding statistically significant communities in networks. <i>PLoS ONE</i> , <b>2011</b> , 6, e18961	3.7	596
95	Human mobility networks, travel restrictions, and the global spread of 2009 H1N1 pandemic. <i>PLoS ONE</i> , <b>2011</b> , 6, e16591	3.7	313
94	Human mobility: Models and applications. <i>Physics Reports</i> , <b>2018</b> , 734, 1-74	27.7	308
93	Modeling the spatial spread of infectious diseases: the GLObal Epidemic and Mobility computational model. <i>Journal of Computational Science</i> , <b>2010</b> , 1, 132-145	3.4	275
92	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> , <b>2009</b> , 7, 45	11.4	248
91	Prominence and control: the weighted rich-club effect. <i>Physical Review Letters</i> , <b>2008</b> , 101, 168702	7.4	223
90	Generic dynamic scaling in kinetic roughening. <i>Physical Review Letters</i> , <b>2000</b> , 84, 2199-202	7.4	189
89	From mobile phone data to the spatial structure of cities. <i>Scientific Reports</i> , <b>2014</b> , 4, 5276	4.9	185
88	Real-time numerical forecast of global epidemic spreading: case study of 2009 A/H1N1pdm. <i>BMC Medicine</i> , <b>2012</b> , 10, 165	11.4	178
87	Dynamical classes of collective attention in twitter <b>2012</b> ,		170
86	Self-organization of collaboration networks. <i>Physical Review E</i> , <b>2004</b> , 70, 036106	2.4	164
85	Comparing large-scale computational approaches to epidemic modeling: agent-based versus structured metapopulation models. <i>BMC Infectious Diseases</i> , <b>2010</b> , 10, 190	4	163
84	Social features of online networks: the strength of intermediary ties in online social media. <i>PLoS ONE</i> , <b>2012</b> , 7, e29358	3.7	160
83	Is the voter model a model for voters?. <i>Physical Review Letters</i> , <b>2014</b> , 112, 158701	7.4	134
82	Systemic delay propagation in the US airport network. <i>Scientific Reports</i> , <b>2013</b> , 3, 1159	4.9	106
81	Human dynamics revealed through Web analytics. <i>Physical Review E</i> , <b>2008</b> , 78, 026123	2.4	102

80	Uncovering the spatial structure of mobility networks. <i>Nature Communications</i> , <b>2015</b> , 6, 6007	17.4	89
79	Dynamics of brain networks in the aesthetic appreciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110 Suppl 2, 10454-61	11.5	87
78	Cross-checking different sources of mobility information. <i>PLoS ONE</i> , <b>2014</b> , 9, e105184	3.7	84
77	Statistical significance of communities in networks. <i>Physical Review E</i> , <b>2010</b> , 81, 046110	2.4	77
76	Systematic comparison of trip distribution laws and models. <i>Journal of Transport Geography</i> , <b>2016</b> , 51, 158-169	5.2	69
75	Metapopulation epidemic models with heterogeneous mixing and travel behaviour. <i>Theoretical Biology and Medical Modelling</i> , <b>2014</b> , 11, 3	2.3	62
74	Entangling mobility and interactions in social media. <i>PLoS ONE</i> , <b>2014</b> , 9, e92196	3.7	56
73	Complex networks renormalization: flows and fixed points. <i>Physical Review Letters</i> , <b>2008</b> , 101, 148701	7.4	50
72	Hierarchical organization of urban mobility and its connection with city livability. <i>Nature Communications</i> , <b>2019</b> , 10, 4817	17.4	48
71	Information filtering in complex weighted networks. <i>Physical Review E</i> , <b>2011</b> , 83, 046101	2.4	48
70	Comparing and modelling land use organization in cities. <i>Royal Society Open Science</i> , <b>2015</b> , 2, 150449	3.3	45
69	Social inertia in collaboration networks. <i>Physical Review E</i> , <b>2006</b> , 73, 016122	2.4	45
68	Anomalous roughening of Hele-Shaw flows with quenched disorder. <i>Physical Review Letters</i> , <b>2002</b> , 89, 026102	7.4	42
67	Influence of sociodemographic characteristics on human mobility [corrected]. <i>Scientific Reports</i> , <b>2015</b> , 5, 10075	4.9	41
66	A family-network model for wealth distribution in societies. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2005</b> , 353, 515-528	3.3	39
65	Mapping the Americanization of English in space and time. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197741	3.7	36
64	Human diffusion and city influence. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12, 20150473	4.1	33
63	Exploring the potential of phone call data to characterize the relationship between social network and travel behavior. <i>Transportation</i> , <b>2015</b> , 42, 647-668	4	33

62	Immigrant community integration in world cities. <i>PLoS ONE</i> , <b>2018</b> , 13, e0191612	3.7	33
61	Transport on weighted networks: When the correlations are independent of the degree. <i>Physical Review E</i> , <b>2007</b> , 76, 066106	2.4	32
60	Comparing the modeling of delay propagation in the US and European air traffic networks. <i>Journal of Air Transport Management</i> , <b>2016</b> , 56, 12-18	5.1	31
59	Social and strategic imitation: the way to consensus. <i>Scientific Reports</i> , <b>2012</b> , 2, 686	4.9	30
58	Inversion method for content-based networks. <i>Physical Review E</i> , <b>2008</b> , 77, 036122	2.4	30
57	Tweets on the road. <i>PLoS ONE</i> , <b>2014</b> , 9, e105407	3.7	29
56	Percolative transition on ferromagnetic insulator manganites: Uncorrelated to correlated polaron clusters. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	28
55	Social imitation versus strategic choice, or consensus versus cooperation, in the networked Prisoner's Dilemma. <i>Physical Review E</i> , <b>2014</b> , 90, 022810	2.4	27
54	Ageing in the critical contact process: a Monte Carlo study. <i>Journal of Physics A</i> , <b>2004</b> , 37, 10497-10512		26
53	Numerical study of the Langevin theory for fixed-energy sandpiles. <i>Physical Review E</i> , <b>2004</b> , 69, 045105	2.4	25
52	Touristic site attractiveness seen through Twitter. <i>EPJ Data Science</i> , <b>2016</b> , 5,	3.4	23
51	Characterization of Delay Propagation in the US Air-Transportation Network. <i>Transportation Journal</i> , <b>2014</b> , 53, 330	0.8	22
50	Renormalization flows in complex networks. <i>Physical Review E</i> , <b>2009</b> , 79, 026104	2.4	19
49	Rethinking the logistic approach for population dynamics of mutualistic interactions. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 363, 332-43	2.3	18
48	Optimization of transport protocols with path-length constraints in complex networks. <i>Physical Review E</i> , <b>2010</b> , 82, 036119	2.4	17
47	Dynamics on networks: competition of temporal and topological correlations. <i>Scientific Reports</i> , <b>2017</b> , 7, 41627	4.9	16
46	Field theory for recurrent mobility. <i>Nature Communications</i> , <b>2019</b> , 10, 3895	17.4	16
45	What's in a session <b>2009</b> ,		16

44	Modeling the critical care demand and antibiotics resources needed during the Fall 2009 wave of influenza A(H1N1) pandemic. <i>PLOS Currents</i> , <b>2009</b> , 1, RRN1133		16
43	Mobile phone records to feed activity-based travel demand models: MATSim for studying a cordon toll policy in Barcelona. <i>Transportation Research, Part A: Policy and Practice</i> , <b>2019</b> , 121, 56-74	3.7	16
42	Influence of opinion dynamics on the evolution of games. <i>PLoS ONE</i> , <b>2012</b> , 7, e48916	3.7	15
41	Effects of mobility and multi-seeding on the propagation of the COVID-19 in Spain		15
40	Estimate of Novel Influenza A/H1N1 cases in Mexico at the early stage of the pandemic with a spatially structured epidemic model. <i>PLOS Currents</i> , <b>2009</b> , 1, RRN1129		14
39	Uncovering the socioeconomic facets of human mobility. <i>Scientific Reports</i> , <b>2021</b> , 11, 8616	4.9	13
38	Percolation-based precursors of transitions in extended systems. <i>Scientific Reports</i> , <b>2016</b> , 6, 29552	4.9	12
37	Herding and idiosyncratic choices: Nonlinearity and aging-induced transitions in the noisy voter model. <i>Comptes Rendus Physique</i> , <b>2019</b> , 20, 262-274	1.4	12
36	Combinatorial approach to modularity. <i>Physical Review E</i> , <b>2010</b> , 82, 026102	2.4	12
35	Aging-induced continuous phase transition. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	12
34	Joint effect of ageing and multilayer structure prevents ordering in the voter model. <i>Scientific Reports</i> , <b>2017</b> , 7, 7166	4.9	11
33	Social inertia and diversity in collaboration networks. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 143, 47-50	2.3	11
32	Sticky grains do not change the universality class of isotropic sandpiles. <i>Physical Review E</i> , <b>2006</b> , 74, 050102	1.2	11
31	Migrant mobility flows characterized with digital data. <i>PLoS ONE</i> , <b>2020</b> , 15, e0230264	3.7	10
30	Glassy dynamics, aging and temperature-induced avalanches in interface pinning at finite temperatures. <i>Europhysics Letters</i> , <b>2006</b> , 76, 554-560	1.6	10
29	Towards a Better Understanding of Cities Using Mobility Data. <i>Built Environment</i> , <b>2016</b> , 42, 356-364	1.3	10
28	Effects of update rules on networked N-player trust game dynamics. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 79, 104870	3.7	9
27	Crowdsourcing the Robin Hood effect in cities. <i>Applied Network Science</i> , <b>2017</b> , 2, 11	2.9	9

26	Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A(H1N1) influenza in the Northern Hemisphere. <i>Emerging Health Threats Journal</i> , <b>2009</b> , 2, 7093		9
25	Assessing the risk of default propagation in interconnected sectoral financial networks. <i>EPJ Data Science</i> , <b>2019</b> , 8,	3-4	9
24	Interface depinning in the absence of an external driving force. <i>Physical Review E</i> , <b>2001</b> , 64, 066109	2.4	8
23	Scaling in the recovery of urban transportation systems from massive events. <i>Scientific Reports</i> , <b>2020</b> , 10, 2746	4-9	7
22	Agents, bookmarks and clicks <b>2010</b> ,		7
21	Activity statistics of a forced elastic string in a disordered medium. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2009</b> , 2009, P07009	1.9	7
20	Publisher's Note: Prominence and Control: The Weighted Rich-Club Effect [Phys. Rev. Lett. 101, 168702 (2008)]. <i>Physical Review Letters</i> , <b>2008</b> , 101,	7-4	7
19	Interplay between mobility, multi-seeding and lockdowns shapes COVID-19 local impact. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009326	5	7
18	Stability of maximum-likelihood-based clustering methods: exploring the backbone of classifications. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2010</b> , 2010, P04028	1.9	5
17	Hierarchical invasion of cooperation in complex networks. <i>Journal of Physics Communications</i> , <b>2018</b> , 2, 025019	1.2	5
16	Dragging in mutualistic networks. <i>Networks and Heterogeneous Media</i> , <b>2015</b> , 10, 37-52	1.6	3
15	Modeling Traffic on the Web Graph. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 50-61	0.9	3
14	Wealth distribution in modern and medieval societies. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 143, 81-85	2.3	3
13	Transmission of HIV in sexual networks in sub-Saharan Africa and Europe. <i>European Physical Journal: Special Topics</i> , <b>2013</b> , 222, 1403-1411	2.3	2
12	Persistence in Voting Behavior: Stronghold Dynamics in Elections. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 173-181	0.9	2
11	Using the Weighted Rich-Club Coefficient to Explore Traffic Organization in Mobility Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2009</b> , 680-692	0.2	2
10	Impact of urban structure on infectious disease spreading.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3816	4-9	2
9	Dynamical leaps due to microscopic changes in multilayer networks. <i>Europhysics Letters</i> , <b>2017</b> , 117, 48004.6		1

8	Comment on Macroscopic Equation for the Roughness of Growing Interfaces in Quenched Disordered Media <i>Physical Review Letters</i> , <b>1999</b> , 82, 1337-1337	7.4	1
7	Towards the Characterization of Individual Users through Web Analytics. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2009</b> , 2247-2254	0.2	1
6	Dynamics in Online Social Networks. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2013</b> , 3-17	0.8	1
5	On the importance of trip destination for modelling individual human mobility patterns. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200673	4.1	1
4	Modeling financial distress propagation on customer-supplier networks. <i>Chaos</i> , <b>2021</b> , 31, 053119	3.3	1
3	The world-wide waste web.. <i>Nature Communications</i> , <b>2022</b> , 13, 1615	17.4	1
2	Reply to: On the difficulty of achieving differential privacy in practice: user-level guarantees in aggregate location data.. <i>Nature Communications</i> , <b>2022</b> , 13, 30	17.4	0
1	A simple and bounded model of population dynamics for mutualistic networks. <i>Networks and Heterogeneous Media</i> , <b>2015</b> , 10, 53-70	1.6	0