Jose Javier Ramasco

List of Publications by Year in Descending Order

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	Reply to: On the difficulty of achieving differential privacy in practice: user-level guarantees in aggregate location data.. *Nature Communications*, **2022**, 13, 30	17.4	0
96	The world-wide waste web.. *Nature Communications*, **2022**, 13, 1615	17.4	1
95	Impact of urban structure on infectious disease spreading.. *Scientific Reports*, **2022**, 12, 3816	4.9	2
94	Interplay between mobility, multi-seeding and lockdowns shapes COVID-19 local impact. *PLoS Computational Biology*, **2021**, 17, e1009326	5	7
93	Uncovering the socioeconomic facets of human mobility. *Scientific Reports*, **2021**, 11, 8616	4.9	13
92	Modeling financial distress propagation on customer-supplier networks. *Chaos*, **2021**, 31, 053119	3.3	1
91	Migrant mobility flows characterized with digital data. *PLoS ONE*, **2020**, 15, e0230264	3.7	10
90	Scaling in the recovery of urban transportation systems from massive events. *Scientific Reports*, **2020**, 10, 2746	4.9	7
89	On the importance of trip destination for modelling individual human mobility patterns. *Journal of the Royal Society Interface*, **2020**, 17, 20200673	4.1	1
88	Field theory for recurrent mobility. *Nature Communications*, **2019**, 10, 3895	17.4	16
87	Herding and idiosyncratic choices: Nonlinearity and aging-induced transitions in the noisy voter model. *Comptes Rendus Physique*, **2019**, 20, 262-274	1.4	12
86	Effects of update rules on networked N-player trust game dynamics. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 79, 104870	3.7	9
85	Hierarchical organization of urban mobility and its connection with city livability. *Nature Communications*, **2019**, 10, 4817	17.4	48
84	Assessing the risk of default propagation in interconnected sectoral financial networks. *EPJ Data Science*, **2019**, 8,	3.4	9
83	Mobile phone records to feed activity-based travel demand models: MATSim for studying a cordon toll policy in Barcelona. *Transportation Research, Part A: Policy and Practice*, **2019**, 121, 56-74	3.7	16
82	Human mobility: Models and applications. *Physics Reports*, **2018**, 734, 1-74	27.7	308
81	Immigrant community integration in world cities. *PLoS ONE*, **2018**, 13, e0191612	3.7	33

80	Hierarchical invasion of cooperation in complex networks. *Journal of Physics Communications*, **2018**, 2, 025019	1.2	5
79	Aging-induced continuous phase transition. *Physical Review E*, **2018**, 98,	2.4	12
78	Mapping the Americanization of English in space and time. *PLoS ONE*, **2018**, 13, e0197741	3.7	36
77	Dynamical leaps due to microscopic changes in multilayer networks. *Europhysics Letters*, **2017**, 117, 48004	4.6	1
76	Dynamics on networks: competition of temporal and topological correlations. *Scientific Reports*, **2017**, 7, 41627	4.9	16
75	Joint effect of ageing and multilayer structure prevents ordering in the voter model. *Scientific Reports*, **2017**, 7, 7166	4.9	11
74	Crowdsourcing the Robin Hood effect in cities. *Applied Network Science*, **2017**, 2, 11	2.9	9
73	Percolation-based precursors of transitions in extended systems. *Scientific Reports*, **2016**, 6, 29552	4.9	12
72	Touristic site attractiveness seen through Twitter. *EPJ Data Science*, **2016**, 5,	3.4	23
71	Systematic comparison of trip distribution laws and models. *Journal of Transport Geography*, **2016**, 51, 158-169	5.2	69
70	Comparing the modeling of delay propagation in the US and European air traffic networks. *Journal of Air Transport Management*, **2016**, 56, 12-18	5.1	31
69	Towards a Better Understanding of Cities Using Mobility Data. *Built Environment*, **2016**, 42, 356-364	1.3	10
68	Uncovering the spatial structure of mobility networks. *Nature Communications*, **2015**, 6, 6007	17.4	89
67	Human diffusion and city influence. *Journal of the Royal Society Interface*, **2015**, 12, 20150473	4.1	33
66	Exploring the potential of phone call data to characterize the relationship between social network and travel behavior. *Transportation*, **2015**, 42, 647-668	4	33
65	Dragging in mutualistic networks. *Networks and Heterogeneous Media*, **2015**, 10, 37-52	1.6	3
64	Influence of sociodemographic characteristics on human mobility [corrected]. *Scientific Reports*, **2015**, 5, 10075	4.9	41
63	Comparing and modelling land use organization in cities. *Royal Society Open Science*, **2015**, 2, 150449	3.3	45

62	Persistence in Voting Behavior: Stronghold Dynamics in Elections. *Lecture Notes in Computer Science*, **2015**, 173-181	0.9	2
61	A simple and bounded model of population dynamics for mutualistic networks. *Networks and Heterogeneous Media*, **2015**, 10, 53-70	1.6	0
60	From mobile phone data to the spatial structure of cities. *Scientific Reports*, **2014**, 4, 5276	4.9	185
59	Is the voter model a model for voters?. *Physical Review Letters*, **2014**, 112, 158701	7.4	134
58	Characterization of Delay Propagation in the US Air-Transportation Network. *Transportation Journal*, **2014**, 53, 330	0.8	22
57	Entangling mobility and interactions in social media. *PLoS ONE*, **2014**, 9, e92196	3.7	56
56	Cross-checking different sources of mobility information. *PLoS ONE*, **2014**, 9, e105184	3.7	84
55	Tweets on the road. *PLoS ONE*, **2014**, 9, e105407	3.7	29
54	Rethinking the logistic approach for population dynamics of mutualistic interactions. *Journal of Theoretical Biology*, **2014**, 363, 332-43	2.3	18
53	Social imitation versus strategic choice, or consensus versus cooperation, in the networked Prisoner's Dilemma. *Physical Review E*, **2014**, 90, 022810	2.4	27
52	Metapopulation epidemic models with heterogeneous mixing and travel behaviour. *Theoretical Biology and Medical Modelling*, **2014**, 11, 3	2.3	62
51	Transmission of HIV in sexual networks in sub-Saharan Africa and Europe. *European Physical Journal: Special Topics*, **2013**, 222, 1403-1411	2.3	2
50	Dynamics of brain networks in the aesthetic appreciation. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110 Suppl 2, 10454-61	11.5	87
49	Systemic delay propagation in the US airport network. *Scientific Reports*, **2013**, 3, 1159	4.9	106
48	Dynamics in Online Social Networks. *Modeling and Simulation in Science, Engineering and Technology*, **2013**, 3-17	0.8	1
47	Dynamical classes of collective attention in twitter **2012**,		170
46	Real-time numerical forecast of global epidemic spreading: case study of 2009 A/H1N1pdm. *BMC Medicine*, **2012**, 10, 165	11.4	178
45	Influence of opinion dynamics on the evolution of games. *PLoS ONE*, **2012**, 7, e48916	3.7	15

44	Social and strategic imitation: the way to consensus. *Scientific Reports*, **2012**, 2, 686	4.9	30
43	Social features of online networks: the strength of intermediary ties in online social media. *PLoS ONE*, **2012**, 7, e29358	3.7	160
42	Finding statistically significant communities in networks. *PLoS ONE*, **2011**, 6, e18961	3.7	596
41	Human mobility networks, travel restrictions, and the global spread of 2009 H1N1 pandemic. *PLoS ONE*, **2011**, 6, e16591	3.7	313
40	Information filtering in complex weighted networks. *Physical Review E*, **2011**, 83, 046101	2.4	48
39	Statistical significance of communities in networks. *Physical Review E*, **2010**, 81, 046110	2.4	77
38	Agents, bookmarks and clicks **2010**,		7
37	Stability of maximum-likelihood-based clustering methods: exploring the backbone of classifications. *Journal of Statistical Mechanics: Theory and Experiment*, **2010**, 2010, P04028	1.9	5
36	Combinatorial approach to modularity. *Physical Review E*, **2010**, 82, 026102	2.4	12
35	Optimization of transport protocols with path-length constraints in complex networks. *Physical Review E*, **2010**, 82, 036119	2.4	17
34	Modeling Traffic on the Web Graph. *Lecture Notes in Computer Science*, **2010**, 50-61	0.9	3
33	Modeling the spatial spread of infectious diseases: the GLobal Epidemic and Mobility computational model. *Journal of Computational Science*, **2010**, 1, 132-145	3.4	275
32	Comparing large-scale computational approaches to epidemic modeling: agent-based versus structured metapopulation models. *BMC Infectious Diseases*, **2010**, 10, 190	4	163
31	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		9
30	Renormalization flows in complex networks. *Physical Review E*, **2009**, 79, 026104	2.4	19
29	What's in a session **2009**,		16
28	Seasonal transmission potential and activity peaks of the new influenza A(H1N1): a Monte Carlo likelihood analysis based on human mobility. *BMC Medicine*, **2009**, 7, 45	11.4	248
27	Multiscale mobility networks and the spatial spreading of infectious diseases. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 21484-9	11.5	821

26	Activity statistics of a forced elastic string in a disordered medium. *Journal of Statistical Mechanics: Theory and Experiment*, **2009**, 2009, P07009	1.9	7
25	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		14
24	Modeling the critical care demand and antibiotics resources needed during the Fall 2009 wave of influenza A(H1N1) pandemic. *PLOS Currents*, **2009**, 1, RRN1133		16
23	Using the Weighted Rich-Club Coefficient to Explore Traffic Organization in Mobility Networks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2009**, 680-692	0.2	2
22	Towards the Characterization of Individual Users through Web Analytics. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2009**, 2247-2254	0.2	1
21	Prominence and control: the weighted rich-club effect. *Physical Review Letters*, **2008**, 101, 168702	7.4	223
20	Inversion method for content-based networks. *Physical Review E*, **2008**, 77, 036122	2.4	30
19	Human dynamics revealed through Web analytics. *Physical Review E*, **2008**, 78, 026123	2.4	102
18	Publisher's Note: Prominence and Control: The Weighted Rich-Club Effect [Phys. Rev. Lett. 101, 168702 (2008)]. *Physical Review Letters*, **2008**, 101,	7.4	7
17	Complex networks renormalization: flows and fixed points. *Physical Review Letters*, **2008**, 101, 148701	7.4	50
16	Social inertia and diversity in collaboration networks. *European Physical Journal: Special Topics*, **2007**, 143, 47-50	2.3	11
15	Wealth distribution in modern and medieval societies. *European Physical Journal: Special Topics*, **2007**, 143, 81-85	2.3	3
14	Transport on weighted networks: When the correlations are independent of the degree. *Physical Review E*, **2007**, 76, 066106	2.4	32
13	Social inertia in collaboration networks. *Physical Review E*, **2006**, 73, 016122	2.4	45
12	Sticky grains do not change the universality class of isotropic sandpiles. *Physical Review E*, **2006**, 74, 050102	2.4	11
11	Percolative transition on ferromagnetic insulator manganites: Uncorrelated to correlated polaron clusters. *Physical Review B*, **2006**, 73,	3.3	28
10	Glassy dynamics, aging and temperature-induced avalanches in interface pinning at finite temperatures. *Europhysics Letters*, **2006**, 76, 554-560	1.6	10
9	A family-network model for wealth distribution in societies. *Physica A: Statistical Mechanics and Its Applications*, **2005**, 353, 515-528	3.3	39

LIST OF PUBLICATIONS

8	Ageing in the critical contact process: a Monte Carlo study. *Journal of Physics A*, **2004**, 37, 10497-10512		26
7	Numerical study of the Langevin theory for fixed-energy sandpiles. *Physical Review E*, **2004**, 69, 045105	2.4	25
6	Self-organization of collaboration networks. *Physical Review E*, **2004**, 70, 036106	2.4	164
5	Anomalous roughening of Hele-Shaw flows with quenched disorder. *Physical Review Letters*, **2002**, 89, 026102	7.4	42
4	Interface depinning in the absence of an external driving force. *Physical Review E*, **2001**, 64, 066109	2.4	8
3	Generic dynamic scaling in kinetic roughening. *Physical Review Letters*, **2000**, 84, 2199-202	7.4	189
2	Comment on Macroscopic Equation for the Roughness of Growing Interfaces in Quenched Disordered Media *Physical Review Letters*, **1999**, 82, 1337-1337	7.4	1
1	Effects of mobility and multi-seeding on the propagation of the COVID-19 in Spain		15