

# Csar A Hidalgo

## 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.

58  
papers

10,760  
citations

31  
h-index

63  
g-index

63  
ext. papers

13,241  
ext. citations

9.2  
avg, IF

6.8  
L-index

#	Paper	IF	Citations
58	Understanding individual human mobility patterns. <i>Nature</i> , <b>2008</b> , 453, 779-82	50.4	3903
57	The product space conditions the development of nations. <i>Science</i> , <b>2007</b> , 317, 482-7	33.3	1163
56	The building blocks of economic complexity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 10570-5	11.5	963
55	Unique in the Crowd: The privacy bounds of human mobility. <i>Scientific Reports</i> , <b>2013</b> , 3, 1376	4.9	731
54	A dynamic network approach for the study of human phenotypes. <i>PLoS Computational Biology</i> , <b>2009</b> , 5, e1000353	5	400
53	Proto-genes and de novo gene birth. <i>Nature</i> , <b>2012</b> , 487, 370-4	50.4	379
52	Understanding the spreading patterns of mobile phone viruses. <i>Science</i> , <b>2009</b> , 324, 1071-6	33.3	353
51	The network structure of economic output. <i>Journal of Economic Growth</i> , <b>2011</b> , 16, 309-342	4	266
50	The Atlas of Economic Complexity <b>2014</b> ,		263
49	Genome-scale analysis of in vivo spatiotemporal promoter activity in <i>Caenorhabditis elegans</i> . <i>Nature Biotechnology</i> , <b>2007</b> , 25, 663-8	44.5	250
48	Linking Economic Complexity, Institutions, and Income Inequality. <i>World Development</i> , <b>2017</b> , 93, 75-93	5.5	208
47	The collaborative image of the city: mapping the inequality of urban perception. <i>PLoS ONE</i> , <b>2013</b> , 8, e68400	3.7	192
46	The dynamics of a mobile phone network. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2008</b> , 387, 3017-3024	3.3	134
45	Neighbors and the evolution of the comparative advantage of nations: Evidence of international knowledge diffusion?. <i>Journal of International Economics</i> , <b>2014</b> , 92, 111-123	3.1	124
44	Streetscore -- Predicting the Perceived Safety of One Million Streetscapes <b>2014</b> ,		120
43	Deep Learning the City: Quantifying Urban Perception at a Global Scale. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 196-212	0.9	102
42	Computer vision uncovers predictors of physical urban change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 7571-7576	11.5	99

41	Transcription factor modularity in a gene-centered <i>C. elegans</i> core neuronal protein-DNA interaction network. <i>Genome Research</i> , <b>2007</b> , 17, 1061-71	9.7	80
40	Complex economic activities concentrate in large cities. <i>Nature Human Behaviour</i> , <b>2020</b> , 4, 248-254	12.8	79
39	The dynamics of nestedness predicts the evolution of industrial ecosystems. <i>PLoS ONE</i> , <b>2012</b> , 7, e49393	3.7	77
38	Links that speak: the global language network and its association with global fame. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E5616-22	11.5	72
37	The Principle of Relatedness. <i>Springer Proceedings in Complexity</i> , <b>2018</b> , 451-457	0.3	68
36	Economic complexity theory and applications. <i>Nature Reviews Physics</i> , <b>2021</b> , 3, 92-113	23.6	57
35	Conditions for the emergence of scaling in the inter-event time of uncorrelated and seasonal systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2006</b> , 369, 877-883	3.3	55
34	The universal decay of collective memory and attention. <i>Nature Human Behaviour</i> , <b>2019</b> , 3, 82-91	12.8	49
33	The research space: using career paths to predict the evolution of the research output of individuals, institutions, and nations. <i>Scientometrics</i> , <b>2016</b> , 109, 1695-1709	3	47
32	Unpacking the polarization of workplace skills. <i>Science Advances</i> , <b>2018</b> , 4, eaao6030	14.3	47
31	Optimal diversification strategies in the networks of related products and of related research areas. <i>Nature Communications</i> , <b>2018</b> , 9, 1328	17.4	44
30	Cities Are Physical Too: Using Computer Vision to Measure the Quality and Impact of Urban Appearance. <i>American Economic Review</i> , <b>2016</b> , 106, 128-132	9.7	44
29	VizML <b>2019</b> ,		39
28	The role of industry-specific, occupation-specific, and location-specific knowledge in the growth and survival of new firms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 12646-12653	11.5	32
27	Country Diversification, Product Ubiquity, and Economic Divergence. <i>SSRN Electronic Journal</i> , <b>2010</b> ,	1	30
26	Pantheon 1.0, a manually verified dataset of globally famous biographies. <i>Scientific Data</i> , <b>2016</b> , 3, 150078.2		29
25	Sherlock <b>2019</b> ,		27
24	VizNet <b>2019</b> ,		23

23	Beyond network structure: How heterogeneous susceptibility modulates the spread of epidemics. <i>Scientific Reports</i> , <b>2014</b> , 4, 4795	4.9	21
22	Disconnected, fragmented, or united? a trans-disciplinary review of network science. <i>Applied Network Science</i> , <b>2016</b> , 1, 6	2.9	19
21	DIVE <b>2018</b> ,		17
20	Do People Shape Cities, or Do Cities Shape People? The Co-evolution of Physical, Social, and Economic Change in Five Major U.S. Cities <b>2015</b> ,		15
19	The mobility of displaced workers: How the local industry mix affects job search. <i>Journal of Urban Economics</i> , <b>2018</b> , 108, 124-140	4.1	14
18	The amenity mix of urban neighborhoods. <i>Habitat International</i> , <b>2020</b> , 106, 102205	4.6	12
17	Implied Comparative Advantage. <i>SSRN Electronic Journal</i> , <b>2014</b> ,	1	9
16	The effect of social interactions in the primary consumption life cycle of motion pictures. <i>New Journal of Physics</i> , <b>2006</b> , 8, 52-52	2.9	8
15	Humans judge faces in incomplete photographs as physically more attractive. <i>Scientific Reports</i> , <b>2020</b> , 10, 110	4.9	7
14	Bilateral relatedness: knowledge diffusion and the evolution of bilateral trade. <i>Journal of Evolutionary Economics</i> , <b>2020</b> , 30, 247-277	1.9	7
13	International Knowledge Diffusion and the Comparative Advantage of Nations. <i>SSRN Electronic Journal</i> , <b>2012</b> ,	1	6
12	Spillovers across industries and regions in China: regional economic diversification. <i>Regional Studies</i> , <b>2021</b> , 55, 1311-1326	3.4	6
11	The time and frequency of unrelated diversification. <i>Research Policy</i> , <b>2021</b> , 104323	7.5	5
10	Economic diversification: implications for Kazakhstan		4
9	Thinking outside the cube. <i>Physics World</i> , <b>2008</b> , 21, 34-37	0.5	4
8	Complex Economic Activities Concentrate in Large Cities. <i>SSRN Electronic Journal</i> , <b>2018</b> ,	1	4
7	Bipartite networks provide new insights on international trade markets. <i>Networks and Heterogeneous Media</i> , <b>2012</b> , 7, 399-413	1.6	3
6	Planet Hard Drive. <i>Scientific American</i> , <b>2015</b> , 313, 72-5	0.5	2

5	How the medium shapes the message: Printing and the rise of the arts and sciences. <i>PLoS ONE</i> , <b>2019</b> , 14, e0205771	3.7	2
4	Stationary state structure of a random copying mechanism over a complex network. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2005</b> , 353, 674-684	3.3	1
3	When All Products Are Digital: Complexity and Intangible Value in the Ecosystem of Digitizing Firms. <i>SSRN Electronic Journal</i> ,	1	1
2	Computational aspects of optimal strategic network diffusion. <i>Theoretical Computer Science</i> , <b>2020</b> , 814, 153-168	1.1	1
1	Reply to Biersteker: When methods matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1815	11.5	