Dirk Brockmann

List of Publications by Year
in descending order

24 papers	3,194 citations	623734 14 h-index	610901 24 g-index
31 all docs	31 docs citations	31 times ranked	4892 citing authors

#	Article	IF	Citations
1	Massive Parallelization Boosts Big Bayesian Multidimensional Scaling. Journal of Computational and Graphical Statistics, 2021, 30, 11-24.	1.7	15
2	Finding disease outbreak locations from human mobility data. EPJ Data Science, 2021, 10, 52.	2.8	7
3	COVID-19 lockdown induces disease-mitigating structural changes in mobility networks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32883-32890.	7.1	257
4	Experiencing the risk of overutilising opioids among patients with chronic non-cancer pain in ambulatory care (ERONA): the protocol of an exploratory, randomised controlled trial. BMJ Open, 2020, 10, e037642.	1.9	5
5	Comprehensive integrated NGS-based surveillance and contact-network modeling unravels transmission dynamics of vancomycin-resistant enterococci in a high-risk population within a tertiary care hospital. PLoS ONE, 2020, 15, e0235160.	2.5	21
6	Effective containment explains subexponential growth in recent confirmed COVID-19 cases in China. Science, 2020, 368, 742-746.	12.6	670
7	Modular hierarchical and power-law small-world networks bear structural optima for minimal first passage times and cover time. Journal of Complex Networks, 2019, 7, 865-895.	1.8	6
8	Hosts mobility and spatial spread of Rickettsia rickettsii. PLoS Computational Biology, 2018, 14, e1006636.	3.2	16
9	A complex network perspective for characterizing urban travel demand patterns: graph theoretical analysis of large-scale originâ€“destination demand networks. Transportation, 2017, 44, 1383-1402.	4.0	70
10	Public health: This message must be herd. Nature Human Behaviour, 2017, 1, .	12.0	9
11	Cover time for random walks on arbitrary complex networks. Physical Review E, 2017, 96, 042307.	2.1	33
12	Fundamental properties of cooperative contagion processes. New Journal of Physics, 2017, 19, 103041.	2.9	54
13	Temporal dynamics of online petitions. PLoS ONE, 2017, 12, e0178062.	2.5	26
14	Spatial and Functional Heterogeneities Shape Collective Behavior of Tumor-Immune Networks. PLoS Computational Biology, 2015, 11, e1004181.	3.2	35
15	Saving Human Lives: What Complexity Science and Information Systems can Contribute. Journal of Statistical Physics, 2015, 158, 735-781.	1.2	467
16	Unifying Viral Genetics and Human Transportation Data to Predict the Global Transmission Dynamics of Human Influenza H3N2. PLoS Pathogens, 2014, 10, e1003932.	4.7	330
17	The Role of Caretakers in Disease Dynamics. Journal of Statistical Physics, 2013, 152, 787-798.	1.2	5
18	The Hidden Geometry of Complex, Network-Driven Contagion Phenomena. Science, 2013, 342, 1337-1342.	12.6	941

#	Article	IF	Citations
19	EyjafjallajÃ¶kull and 9/11: The Impact of Large-Scale Disasters on Worldwide Mobility. PLoS ONE, 2013, 8, e69829.	2.5	22
20	Spotlight on mobility. Nature, 2012, 484, 40-41.	27.8	3
21	Frontiers in network science: advances and applications. European Physical Journal B, 2011, 84, 491-492.	1.5	1
22	The physics of where to go. Nature Physics, 2010, 6, 720-721.	16.7	7
23	The Structure of Borders in a Small World. PLoS ONE, 2010, 5, e15422.	2.5	122
24	Money Circulation, Trackable Items, and the Emergence of Universal Human Mobility Patterns. IEEE Pervasive Computing, 2008, 7, 28-35.	1.3	57