

Dirk Brockmann

List of Publications by Year in descending order

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Version: 2024-02-01

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	The Hidden Geometry of Complex, Network-Driven Contagion Phenomena. <i>Science</i> , 2013, 342, 1337-1342.	12.6	941
2	Effective containment explains subexponential growth in recent confirmed COVID-19 cases in China. <i>Science</i> , 2020, 368, 742-746.	12.6	670
3	Saving Human Lives: What Complexity Science and Information Systems can Contribute. <i>Journal of Statistical Physics</i> , 2015, 158, 735-781.	1.2	467
4	Unifying Viral Genetics and Human Transportation Data to Predict the Global Transmission Dynamics of Human Influenza H3N2. <i>PLoS Pathogens</i> , 2014, 10, e1003932.	4.7	330
5	COVID-19 lockdown induces disease-mitigating structural changes in mobility networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32883-32890.	7.1	257
6	The Structure of Borders in a Small World. <i>PLoS ONE</i> , 2010, 5, e15422.	2.5	122
7	A complex network perspective for characterizing urban travel demand patterns: graph theoretical analysis of large-scale origin-destination demand networks. <i>Transportation</i> , 2017, 44, 1383-1402.	4.0	70
8	Money Circulation, Trackable Items, and the Emergence of Universal Human Mobility Patterns. <i>IEEE Pervasive Computing</i> , 2008, 7, 28-35.	1.3	57
9	Fundamental properties of cooperative contagion processes. <i>New Journal of Physics</i> , 2017, 19, 103041.	2.9	54
10	Spatial and Functional Heterogeneities Shape Collective Behavior of Tumor-Immune Networks. <i>PLoS Computational Biology</i> , 2015, 11, e1004181.	3.2	35
11	Cover time for random walks on arbitrary complex networks. <i>Physical Review E</i> , 2017, 96, 042307.	2.1	33
12	Temporal dynamics of online petitions. <i>PLoS ONE</i> , 2017, 12, e0178062.	2.5	26
13	Eyjafjallajökull and 9/11: The Impact of Large-Scale Disasters on Worldwide Mobility. <i>PLoS ONE</i> , 2013, 8, e69829.	2.5	22
14	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. <i>PLoS ONE</i> , 2020, 15, e0235160.	2.5	21
15	Hosts mobility and spatial spread of <i>Rickettsia rickettsii</i> . <i>PLoS Computational Biology</i> , 2018, 14, e1006636.	3.2	16
16	Massive Parallelization Boosts Big Bayesian Multidimensional Scaling. <i>Journal of Computational and Graphical Statistics</i> , 2021, 30, 11-24.	1.7	15
17	Public health: This message must be herd. <i>Nature Human Behaviour</i> , 2017, 1, .	12.0	9
18	The physics of where to go. <i>Nature Physics</i> , 2010, 6, 720-721.	16.7	7

#	ARTICLE	IF	CITATIONS
19	Finding disease outbreak locations from human mobility data. EPJ Data Science, 2021, 10, 52.	2.8	7
20	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
21	The Role of Caretakers in Disease Dynamics. Journal of Statistical Physics, 2013, 152, 787-798.	1.2	5
22	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
23	Spotlight on mobility. Nature, 2012, 484, 40-41.	27.8	3
24	Frontiers in network science: advances and applications. European Physical Journal B, 2011, 84, 491-492.	1.5	1