

Giovanni Petri

List of Publications by Citations

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Version: 2024-04-27

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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.

43
papers

1,699
citations

21
h-index

41
g-index

50
ext. papers

2,422
ext. citations

5.5
avg, IF

5.58
L-index

#	Paper	IF	Citations
43	Homological scaffolds of brain functional networks. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140873	40.873	269
42	Networks beyond pairwise interactions: Structure and dynamics. <i>Physics Reports</i> , 2020 , 874, 1-92	27.7	228
41	Simplicial models of social contagion. <i>Nature Communications</i> , 2019 , 10, 2485	17.4	161
40	Topological Strata of Weighted Complex Networks. <i>PLoS ONE</i> , 2013 , 8, e66506	3.7	109
39	On the predictability of infectious disease outbreaks. <i>Nature Communications</i> , 2019 , 10, 898	17.4	92
38	Understanding mobility in a social petri dish. <i>Scientific Reports</i> , 2012 , 2, 457	4.9	87
37	Analysis of Big Data in Gait Biomechanics: Current Trends and Future Directions. <i>Journal of Medical and Biological Engineering</i> , 2018 , 38, 244-260	2.2	70
36	The shape of collaborations. <i>EPJ Data Science</i> , 2017 , 6,	3.4	63
35	Simplicial Activity Driven Model. <i>Physical Review Letters</i> , 2018 , 121, 228301	7.4	62
34	Social contagion models on hypergraphs. <i>Physical Review Research</i> , 2020 , 2,	3.9	54
33	Navigating features: a topologically informed chart of electromyographic features space. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	44
32	Topological analysis of data. <i>EPJ Data Science</i> , 2017 , 6,	3.4	39
31	Persistent homology analysis of phase transitions. <i>Physical Review E</i> , 2016 , 93, 052138	2.4	36
30	The physics of higher-order interactions in complex systems. <i>Nature Physics</i> , 2021 , 17, 1093-1098	16.2	36
29	jHoles: A Tool for Understanding Biological Complex Networks via Clique Weight Rank Persistent Homology. <i>Electronic Notes in Theoretical Computer Science</i> , 2014 , 306, 5-18	0.7	34
28	Topology highlights mesoscopic functional equivalence between imagery and perception: The case of hypnotizability. <i>NeuroImage</i> , 2019 , 200, 437-449	7.9	29
27	Construction of and efficient sampling from the simplicial configuration model. <i>Physical Review E</i> , 2017 , 96, 032312	2.4	29

26	Evolutionary dynamics of time-resolved social interactions. <i>Physical Review E</i> , 2014 , 90, 052825	2.4	27
25	Insights into Brain Architectures from the Homological Scaffolds of Functional Connectivity Networks. <i>Frontiers in Systems Neuroscience</i> , 2016 , 10, 85	3.5	27
24	Resting-State fMRI Functional Connectivity: Big Data Preprocessing Pipelines and Topological Data Analysis. <i>IEEE Transactions on Big Data</i> , 2017 , 3, 415-428	3.2	25
23	Entangled communities and spatial synchronization lead to criticality in urban traffic. <i>Scientific Reports</i> , 2013 , 3, 1798	4.9	22
22	Unveiling patterns of international communities in a global city using mobile phone data. <i>EPJ Data Science</i> , 2015 , 4,	3.4	21
21	Impact of the distribution of recovery rates on disease spreading in complex networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	17
20	Topological gene expression networks recapitulate brain anatomy and function. <i>Network Neuroscience</i> , 2019 , 3, 744-762	5.6	15
19	Spectral and topological analyses of the cortical representation of the head position: Does hypnotizability matter?. <i>Brain and Behavior</i> , 2019 , 9, e01277	3.4	14
18	Generating dynamical neuroimaging spatiotemporal representations (DyNeuSR) using topological data analysis. <i>Network Neuroscience</i> , 2019 , 3, 763-778	5.6	12
17	Temporal stability of network partitions. <i>Physical Review E</i> , 2014 , 90, 022813	2.4	10
16	Networks and Cycles: A Persistent Homology Approach to Complex Networks. <i>Springer Proceedings in Complexity</i> , 2013 , 93-99	0.3	9
15	Differences in EMG Feature Space between Able-Bodied and Amputee Subjects for Myoelectric Control 2019 ,		8
14	Hypergraph reconstruction from network data. <i>Communications Physics</i> , 2021 , 4,	5.4	8
13	Global and local information in traffic congestion. <i>Europhysics Letters</i> , 2009 , 88, 20010	1.6	7
12	Developmental Effects of Oxytocin Neurons on Social Affiliation and Processing of Social Information. <i>Journal of Neuroscience</i> , 2021 , 41, 8742-8760	6.6	6
11	Topology highlights mesoscopic functional equivalence between imagery and perception		4
10	Topological limits to the parallel processing capability of network architectures. <i>Nature Physics</i> , 2021 , 17, 646-651	16.2	4
9	Influential groups for seeding and sustaining nonlinear contagion in heterogeneous hypergraphs. <i>Communications Physics</i> , 2022 , 5,	5.4	3

8	Homological scaffold via minimal homology bases. <i>Scientific Reports</i> , 2021 , 11, 5355	4.9	3
7	Simplicial and topological descriptions of human brain dynamics. <i>Network Neuroscience</i> , 2021 , 5, 549-568	5.6	2
6	Group interactions modulate critical mass dynamics in social convention. <i>Communications Physics</i> , 2022 , 5,	5.4	2
5	Towards Understanding the Communication in Sperm Whales. <i>IScience</i> , 2022 , 104393	6.1	1
4	Topological Features of Electroencephalography are Robust to Re-referencing and Preprocessing.. <i>Brain Topography</i> , 2022 , 35, 79	4.3	0
3	Linear and Nonlinear Quantitative EEG Analysis during Neutral Hypnosis following an Opened/Closed Eye Paradigm. <i>Symmetry</i> , 2021 , 13, 1423	2.7	0
2	Sex Differences in Aggression Are Paralleled by Differential Activation of the Brain Social Decision-Making Network in Zebrafish.. <i>Frontiers in Behavioral Neuroscience</i> , 2022 , 16, 784835	3.5	0
1	Higher-Order Description of Brain Function. <i>Understanding Complex Systems</i> , 2022 , 401-415	0.4	