Giovanni Petri

List of Publications by Year in Descending Order

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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.

1,699 41 43 21 h-index g-index citations papers 5.58 50 2,422 5.5 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
43	Topological Features of Electroencephalography are Robust to Re-referencing and Preprocessing Brain Topography, 2022 , 35, 79	4.3	O
42	Influential groups for seeding and sustaining nonlinear contagion in heterogeneous hypergraphs. <i>Communications Physics</i> , 2022 , 5,	5.4	3
41	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	O
40	Group interactions modulate critical mass dynamics in social convention. <i>Communications Physics</i> , 2022 , 5,	5.4	2
39	Higher-Order Description of Brain Function. <i>Understanding Complex Systems</i> , 2022 , 401-415	0.4	
38	Towards Understanding the Communication in Sperm Whales. IScience, 2022, 104393	6.1	1
37	The physics of higher-order interactions in complex systems. <i>Nature Physics</i> , 2021 , 17, 1093-1098	16.2	36
36	Homological scaffold via minimal homology bases. Scientific Reports, 2021, 11, 5355	4.9	3
35	Simplicial and topological descriptions of human brain dynamics. <i>Network Neuroscience</i> , 2021 , 5, 549-5	68 5.6	2
34	Hypergraph reconstruction from network data. Communications Physics, 2021, 4,	5.4	8
33	Topological limits to the parallel processing capability of network architectures. <i>Nature Physics</i> , 2021 , 17, 646-651	16.2	4
32	Linear and Nonlinear Quantitative EEG Analysis during Neutral Hypnosis following an Opened/Closed Eye Paradigm. <i>Symmetry</i> , 2021 , 13, 1423	2.7	0
31	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
30	Networks beyond pairwise interactions: Structure and dynamics. <i>Physics Reports</i> , 2020 , 874, 1-92	27.7	228
29	Impact of the distribution of recovery rates on disease spreading in complex networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	17
28	Social contagion models on hypergraphs. Physical Review Research, 2020, 2,	3.9	54
27	Differences in EMG Feature Space between Able-Bodied and Amputee Subjects for Myoelectric Control 2019 ,		8

26	Simplicial models of social contagion. <i>Nature Communications</i> , 2019 , 10, 2485	17.4	161
25	Topological gene expression networks recapitulate brain anatomy and function. <i>Network Neuroscience</i> , 2019 , 3, 744-762	5.6	15
24	Generating dynamical neuroimaging spatiotemporal representations (DyNeuSR) using topological data analysis. <i>Network Neuroscience</i> , 2019 , 3, 763-778	5.6	12
23	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
22	On the predictability of infectious disease outbreaks. <i>Nature Communications</i> , 2019 , 10, 898	17.4	92
21	Topology highlights mesoscopic functional equivalence between imagery and perception: The case of hypnotizability. <i>NeuroImage</i> , 2019 , 200, 437-449	7.9	29
20	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
19	Simplicial Activity Driven Model. <i>Physical Review Letters</i> , 2018 , 121, 228301	7.4	62
18	Topological analysis of data. <i>EPJ Data Science</i> , 2017 , 6,	3.4	39
17	The shape of collaborations. <i>EPJ Data Science</i> , 2017 , 6,	3.4	63
16	Construction of and efficient sampling from the simplicial configuration model. <i>Physical Review E</i> , 2017 , 96, 032312	2.4	29
15	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
14	Navigating features: a topologically informed chart of electromyographic features space. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	44
13	Persistent homology analysis of phase transitions. <i>Physical Review E</i> , 2016 , 93, 052138	2.4	36
12	Insights into Brain Architectures from the Homological Scaffolds of Functional Connectivity Networks. <i>Frontiers in Systems Neuroscience</i> , 2016 , 10, 85	3.5	27
11	Unveiling patterns of international communities in a global city using mobile phone data. <i>EPJ Data Science</i> , 2015 , 4,	3.4	21
10	Homological scaffolds of brain functional networks. Journal of the Royal Society Interface, 2014, 11, 20	14 µ8 73	269
9	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

8	Temporal stability of network partitions. <i>Physical Review E</i> , 2014 , 90, 022813	2.4	10
7	Evolutionary dynamics of time-resolved social interactions. <i>Physical Review E</i> , 2014 , 90, 052825	2.4	27
6	Entangled communities and spatial synchronization lead to criticality in urban traffic. <i>Scientific Reports</i> , 2013 , 3, 1798	4.9	22
5	Topological Strata of Weighted Complex Networks. <i>PLoS ONE</i> , 2013 , 8, e66506	3.7	109
4	Networks and Cycles: A Persistent Homology Approach to Complex Networks. <i>Springer Proceedings in Complexity</i> , 2013 , 93-99	0.3	9
3	Understanding mobility in a social petri dish. <i>Scientific Reports</i> , 2012 , 2, 457	4.9	87
2	Global and local information in traffic congestion. Europhysics Letters, 2009, 88, 20010	1.6	7
1	Topology highlights mesoscopic functional equivalence between imagery and perception		4