

Mason A Porter

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.

163
papers

10,133
citations

48
h-index

99
g-index

173
ext. papers

12,186
ext. citations

4.3
avg, IF

6.79
L-index

#	Paper	IF	Citations
163	A Bounded-Confidence Model of Opinion Dynamics on Hypergraphs. <i>SIAM Journal on Applied Dynamical Systems</i> , 2022 , 21, 1-32	2.8	3
162	In-degree centrality in a social network is linked to coordinated neural activity.. <i>Nature Communications</i> , 2022 , 13, 1118	17.4	2
161	Topological Data Analysis of Spatial Systems. <i>Understanding Complex Systems</i> , 2022 , 389-399	0.4	1
160	Role detection in bicycle-sharing networks using multilayer stochastic block models. <i>Network Science</i> , 2022 , 10, 46-81	2.9	0
159	Networks of necessity: Simulating COVID-19 mitigation strategies for disabled people and their caregivers.. <i>PLoS Computational Biology</i> , 2022 , 18, e1010042	5	0
158	Social network analysis for social neuroscientists. <i>Social Cognitive and Affective Neuroscience</i> , 2021 , 16, 883-901	4	13
157	Classical and Quantum Random-Walk Centrality Measures in Multilayer Networks. <i>SIAM Journal on Applied Mathematics</i> , 2021 , 81, 2704-2724	1.8	1
156	A multilayer network model of the coevolution of the spread of a disease and competing opinions. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021 , 31, 2455-2494	3.5	4
155	Nanoptera in Weakly Nonlinear Woodpile Chains and Diatomic Granular Chains. <i>SIAM Journal on Applied Dynamical Systems</i> , 2021 , 20, 2412-2449	2.8	2
154	Motifs for Processes on Networks. <i>SIAM Journal on Applied Dynamical Systems</i> , 2021 , 20, 2516-2557	2.8	1
153	Detection of functional communities in networks of randomly coupled oscillators using the dynamic-mode decomposition. <i>Physical Review E</i> , 2021 , 104, 044305	2.4	
152	Tie-Decay Networks in Continuous Time and Eigenvector-Based Centralities. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 8, 1759-1771	4.9	1
151	Nonlinear localized modes in two-dimensional hexagonally-packed magnetic lattices. <i>New Journal of Physics</i> , 2021 , 23, 043008	2.9	5
150	Topological data analysis of task-based fMRI data from experiments on schizophrenia. <i>Journal of Physics Complexity</i> , 2021 , 2, 035006	1.8	3
149	Opinion dynamics on tie-decay networks. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
148	Random-graph models and characterization of granular networks. <i>Journal of Complex Networks</i> , 2021 , 8,	1.7	3
147	Persistent Homology of Geospatial Data: A Case Study with Voting. <i>SIAM Review</i> , 2021 , 63, 67-99	7.4	8

146	Models of continuous-time networks with tie decay, diffusion, and convection. <i>Physical Review E</i> , 2021 , 103, 022304	2.4	2
145	Tunable Eigenvector-Based Centralities for Multiplex and Temporal Networks. <i>Multiscale Modeling and Simulation</i> , 2021 , 19, 113-147	1.8	7
144	Fitting in and breaking up: A nonlinear version of coevolving voter models. <i>Physical Review E</i> , 2020 , 101, 062303	2.4	2
143	Spatial strength centrality and the effect of spatial embeddings on network architecture. <i>Physical Review E</i> , 2020 , 101, 062305	2.4	1
142	Inference of edge correlations in multilayer networks. <i>Physical Review E</i> , 2020 , 102, 062307	2.4	1
141	A model for the influence of media on the ideology of content in online social networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
140	A framework for the construction of generative models for mesoscale structure in multilayer networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	11
139	Spatial applications of topological data analysis: Cities, snowflakes, random structures, and spiders spinning under the influence. <i>Physical Review Research</i> , 2020 , 2,	3.9	11
138	Counterparty Credit Limits: The Impact of a Risk-Mitigation Measure on Everyday Trading. <i>Applied Mathematical Finance</i> , 2020 , 27, 520-548	0.9	
137	Nonlinearity + Networks: A 2020 Vision. <i>Advances in Dynamics, Patterns, Cognition</i> , 2020 , 131-159	0.7	11
136	Dominance, sharing, and assessment in an iterated Hawk-Dove game. <i>Journal of Theoretical Biology</i> , 2020 , 493, 110101	2.3	5
135	Pull out all the stops: Textual analysis via punctuation sequences. <i>European Journal of Applied Mathematics</i> , 2020 , 1-37	1	1
134	Forecasting Elections Using Compartmental Models of Infection. <i>SIAM Review</i> , 2020 , 62, 837-865	7.4	4
133	Stochastic Block Models are a Discrete Surface Tension. <i>Journal of Nonlinear Science</i> , 2020 , 30, 2429-2462.8		2
132	The use of multilayer network analysis in animal behaviour. <i>Animal Behaviour</i> , 2019 , 149, 7-22	2.8	67
131	Effect of antipsychotics on community structure in functional brain networks. <i>Journal of Complex Networks</i> , 2019 , 7, 932-960	1.7	4
130	Forecasting failure locations in 2-dimensional disordered lattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16742-16749	11.5	13
129	Nonlinear excitations in magnetic lattices with long-range interactions. <i>New Journal of Physics</i> , 2019 , 21, 063032	2.9	12

128	Multivariate Spatiotemporal Hawkes Processes and Network Reconstruction. <i>SIAM Journal on Mathematics of Data Science</i> , 2019 , 1, 356-382	3.1	13
127	Hipsters on networks: How a minority group of individuals can lead to an antiestablishment majority. <i>Physical Review E</i> , 2019 , 99, 022313	2.4	14
126	Relating Modularity Maximization and Stochastic Block Models in Multilayer Networks. <i>SIAM Journal on Mathematics of Data Science</i> , 2019 , 1, 667-698	3.1	10
125	Customer mobility and congestion in supermarkets. <i>Physical Review E</i> , 2019 , 100, 062304	2.4	7
124	Opinion formation and distribution in a bounded-confidence model on various networks. <i>Physical Review E</i> , 2018 , 97, 022312	2.4	21
123	Complex contagions with timers. <i>Chaos</i> , 2018 , 28, 033101	3.3	10
122	Can Multilayer Networks Advance Animal Behavior Research?. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 376-378	10.9	44
121	Network analysis of particles and grains. <i>Journal of Complex Networks</i> , 2018 , 6, 485-565	1.7	66
120	Synergistic effects in threshold models on networks. <i>Chaos</i> , 2018 , 28, 013115	3.3	13
119	Direct measurement of superdiffusive energy transport in disordered granular chains. <i>Nature Communications</i> , 2018 , 9, 640	17.4	16
118	Isomorphisms in Multilayer Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2018 , 5, 198-211	4.9	8
117	Frequency-based brain networks: From a multiplex framework to a full multilayer description. <i>Network Neuroscience</i> , 2018 , 2, 418-441	5.6	35
116	Layer Communities in Multiplex Networks. <i>Journal of Statistical Physics</i> , 2018 , 173, 1286-1302	1.5	9
115	Nanoptera in a Period-2 Toda Chain. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018 , 17, 1182-1212	2.8	16
114	Topological data analysis of continuum percolation with disks. <i>Physical Review E</i> , 2018 , 98, 012318	2.4	18
113	Quasiperiodic granular chains and Hofstadter butterflies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	10
112	What Is... a Multilayer Network?. <i>Notices of the American Mathematical Society</i> , 2018 , 65, 1	1.5	13
111	Neither global nor local: Heterogeneous connectivity in spatial network structures of world migration. <i>Social Networks</i> , 2018 , 53, 4-19	3.9	25

110	Motor primitives in space and time via targeted gain modulation in cortical networks. <i>Nature Neuroscience</i> , 2018 , 21, 1774-1783	25.5	39
109	Female respond to song-amplitude modulations. <i>Biology Open</i> , 2018 , 7,	2.2	2
108	Inferring parameters of prey switching in a 1 predator-2 prey plankton system with a linear preference tradeoff. <i>Journal of Theoretical Biology</i> , 2018 , 456, 108-122	2.3	3
107	A local perspective on community structure in multilayer networks. <i>Network Science</i> , 2017 , 5, 144-163	2.9	31
106	Quasi-centralized limit order books. <i>Quantitative Finance</i> , 2017 , 17, 831-853	1.6	4
105	A Predator--2 Prey Fast--Slow Dynamical System for Rapid Predator Evolution. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017 , 16, 54-90	2.8	14
104	Persistent homology of time-dependent functional networks constructed from coupled time series. <i>Chaos</i> , 2017 , 27, 047410	3.3	51
103	Modeling the lowest-cost splitting of a herd of cows by optimizing a cost function. <i>Chaos</i> , 2017 , 27, 063134	3.4	3
102	EIGENVECTOR-BASED CENTRALITY MEASURES FOR TEMPORAL NETWORKS. <i>Multiscale Modeling and Simulation</i> , 2017 , 15, 537-574	1.8	78
101	The multilayer nature of ecological networks. <i>Nature Ecology and Evolution</i> , 2017 , 1, 101	12.3	249
100	Random walks and diffusion on networks. <i>Physics Reports</i> , 2017 , 716-717, 1-58	27.7	272
99	Nonlinear coherent structures in granular crystals. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 413003	3.8	49
98	Core-Periphery Structure in Networks (Revisited). <i>SIAM Review</i> , 2017 , 59, 619-646	7.4	70
97	Mean-field approach to evolving spatial networks, with an application to osteocyte network formation. <i>Physical Review E</i> , 2017 , 96, 012301	2.4	9
96	Numerical methods for the computation of the confluent and Gauss hypergeometric functions. <i>Numerical Algorithms</i> , 2017 , 74, 821-866	2.1	24
95	A roadmap for the computation of persistent homology. <i>EPJ Data Science</i> , 2017 , 6, 17	3.4	188
94	The physics of spreading processes in multilayer networks. <i>Nature Physics</i> , 2016 , 12, 901-906	16.2	326
93	Superdiffusive transport and energy localization in disordered granular crystals. <i>Physical Review E</i> , 2016 , 93, 022902	2.4	23

92	Scattering of waves by impurities in precompressed granular chains. <i>Physical Review E</i> , 2016 , 93, 052224	2.4	16
91	What are essential concepts about networks?. <i>Journal of Complex Networks</i> , 2016 , 4, 457-474	1.7	12
90	Community Detection in Temporal Multilayer Networks, with an Application to Correlation Networks. <i>Multiscale Modeling and Simulation</i> , 2016 , 14, 1-41	1.8	104
89	Null models for community detection in spatially embedded, temporal networks. <i>Journal of Complex Networks</i> , 2016 , 4, 363-406	1.7	47
88	Lost in transportation: Information measures and cognitive limits in multilayer navigation. <i>Science Advances</i> , 2016 , 2, e1500445	14.3	39
87	Mesoscale analyses of fungal networks as an approach for quantifying phenotypic traits. <i>Journal of Complex Networks</i> , 2016 , cnv034	1.7	8
86	Detection of core-periphery structure in networks using spectral methods and geodesic paths. <i>European Journal of Applied Mathematics</i> , 2016 , 27, 846-887	1	34
85	Network analysis and modelling: Special issue of European Journal of Applied Mathematics. <i>European Journal of Applied Mathematics</i> , 2016 , 27, 807-811	1	4
84	Dynamical Systems on Networks. <i>Frontiers in Applied Dynamical Systems: Reviews and Tutorials</i> , 2016 ,	0.5	114
83	Heterogeneous, weakly coupled map lattices. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 36, 549-563	3.7	1
82	Topological data analysis of contagion maps for examining spreading processes on networks. <i>Nature Communications</i> , 2015 , 6, 7723	17.4	56
81	MuxViz: a tool for multilayer analysis and visualization of networks. <i>Journal of Complex Networks</i> , 2015 , 3, 159-176	1.7	191
80	Estimating interevent time distributions from finite observation periods in communication networks. <i>Physical Review E</i> , 2015 , 92, 052813	2.4	20
79	Granular crystals: Nonlinear dynamics meets materials engineering. <i>Physics Today</i> , 2015 , 68, 44-50	0.9	84
78	Extraction of force-chain network architecture in granular materials using community detection. <i>Soft Matter</i> , 2015 , 11, 2731-44	3.6	75
77	Think locally, act locally: detection of small, medium-sized, and large communities in large networks. <i>Physical Review E</i> , 2015 , 91, 012821	2.4	67
76	A simple generative model of collective online behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10411-5	11.5	64
75	Core-Periphery Structure in Networks. <i>SIAM Journal on Applied Mathematics</i> , 2014 , 74, 167-190	1.8	201

74	Convergence time towards periodic orbits in discrete dynamical systems. <i>PLoS ONE</i> , 2014 , 9, e92652	3.7	2
73	Dynamics on modular networks with heterogeneous correlations. <i>Chaos</i> , 2014 , 24, 023106	3.3	27
72	Matchmaker, Matchmaker, Make Me a Match: Migration of Populations via Marriages in the Past. <i>Physical Review X</i> , 2014 , 4,	9.1	7
71	Density-based and transport-based core-periphery structures in networks. <i>Physical Review E</i> , 2014 , 89, 032810	2.4	32
70	Prey Switching with a Linear Preference Trade-Off. <i>SIAM Journal on Applied Dynamical Systems</i> , 2014 , 13, 658-682	2.8	25
69	Cross-linked structure of network evolution. <i>Chaos</i> , 2014 , 24, 013112	3.3	58
68	Commentary: Teach network science to teenagers. <i>Network Science</i> , 2013 , 1, 226-247	2.9	9
67	Multi-stage complex contagions. <i>Chaos</i> , 2013 , 23, 013124	3.3	79
66	Robust detection of dynamic community structure in networks. <i>Chaos</i> , 2013 , 23, 013142	3.3	308
65	Dark solitary waves in a class of collisionally inhomogeneous Bose-Einstein condensates. <i>Physical Review A</i> , 2013 , 87,	2.6	6
64	Mathematical Formulation of Multilayer Networks. <i>Physical Review X</i> , 2013 , 3,	9.1	376
63	Task-based core-periphery organization of human brain dynamics. <i>PLoS Computational Biology</i> , 2013 , 9, e1003171	5	226
62	A Method Based on Total Variation for Network Modularity Optimization Using the MBO Scheme. <i>SIAM Journal on Applied Mathematics</i> , 2013 , 73, 2224-2246	1.8	25
61	Limit order books. <i>Quantitative Finance</i> , 2013 , 13, 1709-1742	1.6	126
60	Dynamic network centrality summarizes learning in the human brain. <i>Journal of Complex Networks</i> , 2013 , 1, 83-92	1.7	48
59	Community structure in the United Nations General Assembly. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 343-361	3.3	38
58	Social structure of Facebook networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 4165-4180	3.3	288
57	Geosocial Graph-Based Community Detection 2012 ,		1

56	Differential recruitment of the sensorimotor putamen and frontoparietal cortex during motor chunking in humans. <i>Neuron</i> , 2012 , 74, 936-46	13.9	190
55	Mathematics. Critical truths about power laws. <i>Science</i> , 2012 , 335, 665-6	33.3	387
54	The Extraordinary SVD. <i>American Mathematical Monthly</i> , 2012 , 119, 838	0.3	28
53	Accuracy of mean-field theory for dynamics on real-world networks. <i>Physical Review E</i> , 2012 , 85, 026106	2.4	97
52	Dynamical clustering of exchange rates. <i>Quantitative Finance</i> , 2012 , 12, 1493-1520	1.6	36
51	Taxonomies of networks from community structure. <i>Physical Review E</i> , 2012 , 86, 036104-36104	2.4	69
50	Generalized master equations for non-Poisson dynamics on networks. <i>Physical Review E</i> , 2012 , 86, 046102	2.4	60
49	Influence of network topology on sound propagation in granular materials. <i>Physical Review E</i> , 2012 , 86, 041306	2.4	79
48	Multislice Modularity Optimization in Community Detection and Image Segmentation 2012 ,		4
47	Small-world network. <i>Scholarpedia Journal</i> , 2012 , 7, 1739	1.5	25
46	Comparing Community Structure to Characteristics in Online Collegiate Social Networks. <i>SIAM Review</i> , 2011 , 53, 526-543	7.4	252
45	A mathematical model for the dynamics and synchronization of cows. <i>Physica D: Nonlinear Phenomena</i> , 2011 , 240, 1497-1509	3.3	18
44	Mathematical genealogy and department prestige. <i>Chaos</i> , 2011 , 21, 041104	3.3	13
43	The unreasonable effectiveness of tree-based theory for networks with clustering. <i>Physical Review E</i> , 2011 , 83, 036112	2.4	95
42	Dynamic reconfiguration of human brain networks during learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7641-6	11.5	1019
41	Revisiting date and party hubs: novel approaches to role assignment in protein interaction networks. <i>PLoS Computational Biology</i> , 2010 , 6, e1000817	5	100
40	Communities in multislice voting networks. <i>Chaos</i> , 2010 , 20, 041108	3.3	37
39	Discrete breathers in one-dimensional diatomic granular crystals. <i>Physical Review Letters</i> , 2010 , 104, 244302	7.4	192

38	Intrinsic energy localization through discrete gap breathers in one-dimensional diatomic granular crystals. <i>Physical Review E</i> , 2010 , 82, 056604	2.4	71
37	Nonlinear waves in disordered diatomic granular chains. <i>Physical Review E</i> , 2010 , 82, 021301	2.4	45
36	Community structure in time-dependent, multiscale, and multiplex networks. <i>Science</i> , 2010 , 328, 876-8	33.3	1249
35	Competition for popularity in bipartite networks. <i>Chaos</i> , 2010 , 20, 043101	3.3	20
34	Mutually-antagonistic interactions in baseball networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 1131-1141	3.3	25
33	Localized breathing modes in granular crystals with defects. <i>Physical Review E</i> , 2009 , 80, 066601	2.4	76
32	Optimal Design of Composite Granular Protectors. <i>Mechanics of Advanced Materials and Structures</i> , 2009 , 17, 1-19	1.8	100
31	Highly nonlinear solitary waves in heterogeneous periodic granular media. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 666-676	3.3	95
30	Comment on Bifurcation analysis of parametrically excited bipolar disorder model□ <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 2844	3.7	1
29	Mathematical models of bipolar disorder. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 2897-2908	3.7	22
28	Dissipative solitary waves in granular crystals. <i>Physical Review Letters</i> , 2009 , 102, 024102	7.4	104
27	Fermi, Pasta, Ulam and the Birth of Experimental Mathematics. <i>American Scientist</i> , 2009 , 97, 214	2.7	48
26	Matter-wave solitons with a periodic, piecewise-constant scattering length. <i>Physical Review A</i> , 2008 , 78,	2.6	43
25	Averaging of nonlinearity management with dissipation. <i>Physical Review A</i> , 2008 , 78,	2.6	5
24	Highly nonlinear solitary waves in periodic dimer granular chains. <i>Physical Review E</i> , 2008 , 77, 015601	2.4	92
23	Community structure in Congressional cosponsorship networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 1705-1712	3.3	101
22	Random Walker Ranking for NCAA Division I-A Football. <i>American Mathematical Monthly</i> , 2007 , 114, 761-777	3.7	52
21	Community structure in the United States House of Representatives. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 386, 414-438	3.3	58

20	Quasiperiodic Dynamics in Bose-Einstein Condensates in Periodic Lattices and Superlattices. <i>Journal of Nonlinear Science</i> , 2007 , 17, 59-83	2.8	16
19	Modulated amplitude waves in collisionally inhomogeneous Bose-Einstein condensates. <i>Physica D: Nonlinear Phenomena</i> , 2007 , 229, 104-115	3.3	41
18	SPATIAL RESONANCE OVERLAP IN BOSE-EINSTEIN CONDENSATES IN SUPERLATTICE POTENTIALS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006 , 16, 945-959	2	5
17	Modulational instability in a layered Kerr medium: theory and experiment. <i>Physical Review Letters</i> , 2006 , 97, 234101	7.4	33
16	Dynamics and manipulation of matter-wave solitons in optical superlattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 352, 210-215	2.3	26
15	Bose-Einstein Condensates in Superlattices. <i>SIAM Journal on Applied Dynamical Systems</i> , 2005 , 4, 783-807	2.8	18
14	Nonlinear lattice dynamics of Bose-Einstein condensates. <i>Chaos</i> , 2005 , 15, 15115	3.3	36
13	A network analysis of committees in the U.S. House of Representatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7057-62	11.5	143
12	Modulated amplitude waves in Bose-Einstein condensates. <i>Physical Review E</i> , 2004 , 69, 047201	2.4	20
11	A perturbative analysis of modulated amplitude waves in Bose-Einstein condensates. <i>Chaos</i> , 2004 , 14, 739-55	3.3	14
10	Energy absorption and dissipation in quantum systems. <i>Physica D: Nonlinear Phenomena</i> , 2004 , 195, 398-402	4.02	2
9	Resonant and non-resonant modulated amplitude waves for binary Bose-Einstein condensates in optical lattices. <i>Physica D: Nonlinear Phenomena</i> , 2004 , 196, 106-123	3.3	26
8	A Gal'kin approach to electronic near-degeneracies in molecular systems. <i>Physica D: Nonlinear Phenomena</i> , 2002 , 167, 218-247	3.3	
7	Prime Quasientropy and Quasichaos. <i>International Journal of Theoretical Physics</i> , 2002 , 41, 1389-1395	1.1	1
6	VIBRATING QUANTUM BILLIARDS ON RIEMANNIAN MANIFOLDS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001 , 11, 2305-2315	2	5
5	BIFURCATIONS IN ONE DEGREE-OF-VIBRATION QUANTUM BILLIARDS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001 , 11, 903-911	2	5
4	QUANTUM CHAOS FOR THE VIBRATING RECTANGULAR BILLIARD. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001 , 11, 2317-2337	2	1
3	Nonadiabatic dynamics in semiquantal physics. <i>Reports on Progress in Physics</i> , 2001 , 64, 1165-1189	14.4	8

2 Remarks on whale cultures from a complex systems perspective. *Behavioral and Brain Sciences*,
2001, 24, 344-344 0.9

1 Chaos on the Quantum Scale. *American Scientist*, **2001**, 89, 532 2.7 2